VAP Phase II Property Assessment

Former Hudepohl Brewery
840 West 5th Street & 801 West 6th Street
Cincinnati, Ohio 45203

Prepared by:

PANDEY Environmental, LLC
673 Mohawk Street, Suite 300
Columbus, OH 43206
Phone: 614-444-8078
Fax: 614-444-8079
URL: www.pandeyenvironmental.com

Prepared for:

Melissa Johnson
Director of Transportation and Logistics
Port of Greater Cincinnati Development Authority
299 East 6th Street, Suite 2A
Cincinnati, Ohio 45202

Date of Preparation:

March 2013

PANDEY
ENVIRONMENTAL, LLC

Table of Contents

1.0 Introduction 1
1.1 General 1
1.2 Purpose 2
1.2.1 Sampling Plan 3
1.2.2 Data Quality Objectives 3
1.2.3 Numeric Standards 3
1.2.4 Correlation to VAP Rules 4
1.3 Dates of Investigations 6
1.4 Contributing Professionals 6
2.0 Phase I Findings 7
2.1 Eligibility 7
2.2 Identified Areas 7
3.0 Non-Intrusive Investigations 9
3.1 PCB Wipe Samples 9
3.2 PCB Floor Core Samples 9
3.3 PCB Bulk Material Samples 9
4.0 Sampling Procedures 10
5.0 Data Collection Activities 13
5.1 2010 Phase II Investigation 13
5.2 2013 Phase II Investigation 13
6.0 Data Set 17
6.1 Data Validation 17
6.2 Soil Data Quality Objectives 17
6.3 Groundwater Data Quality Objectives 17
7.0 Background 19
8.0 Detections of Chemicals of Concern 20
8.1 Soil 20
8.1.1 Historic Industrial Use (Identified Area A) 20
8.1.2 Former Underground Storage Tank (IA-B) 21
8.2 Groundwater 21
8.2.1 Off-Property Sources 22
8.3 Soil Gas 22
9.0 Geology and Hydrogeology 24

9.1 Regional Geology / Hydrogeology 24
9.2 Property-Specific Geology / Hydrogeology 25
9.2.1 Groundwater Flow 25
9.2.2 Geotechnical Analysis 25
9.3 Groundwater Classification 26
9.3.1 Zone 1 (Shallowest) 27
9.3.2 Zone 2 28
10.0 Exposure Pathways 29
10.1 Receptor Populations 29
10.2 Pathway Completeness Table 29
11.0 Compliance Evaluation by Pathway 33
11.1 Comparison to Background 33
11.2 Total Petroleum Hydrocarbons 33
11.3 Lead 34
11.4 Soil Direct Contact 35
11.4.1 Commercial / Industrial Land Use 35
11.4.2 Construction / Excavation Worker 35
11.4.3 Asbestos in Soil / Building Debris 35
11.5 Vapor Intrusion 35
11.5.1 Measured Soil Gas Concentrations 37
11.5.2 Soil Contributions 39
11.5.3 Groundwater Contributions 42
11.5.4 Total Vapor Intrusion Risk – On Property Receptor 42
11.5.5 Total Vapor Intrusion Risk - Off-Property Receptor 43
11.6 Groundwater Use 43
11.6.1 Potable Use 43
11.6.2 Non-Potable Use 44
11.7 Leaching 45
11.7.1 Soil / Water Partitioning Spreadsheet 45
11.7.2 Soil Attenuation Model (SAM) 46
11.7.3 SESOIL Modeling 46
11.8 Contaminant Transport in Groundwater 50
12.0 Remedial Response 51
12.1 Groundwater Response Requirements 51

12.1.1 POGWMUPUS 54
12.1.2 Urban Setting Designation 55
12.1.3 Ecologic Receptors 55
12.2 Institutional / Engineering Controls 55
12.3 Active Remedies 55
13.0 Total Risk from All Pathways 56
14.0 Conclusions 57
15.0 Statement of Limitations 58
16.0 References 59

TABLES

Table 1 Identified Areas Summary

Table 2 Total Risk from All Pathways

FIGURES

Figure 1 Identified Areas

Figure 2 Sample Location Map

Figure 3 Soil Analytical Data Maps
3A Soil Detections – Metals
3B Soil Detections – SVOCs / VOCs
3C Soil Detections – TPH/ PCBs

Figure 4 Groundwater Analytical Data Map

Figure 5 Soil Gas Analytical Data Map

Figure 6 Potentiometric Surface Map

Figure 7 Geologic Cross Sections

Figure 8 USGS Topographic Map

Figure 9 Building Numbering Summary

APPENDICES

APPENDIX A Legal Description

APPENDIX B Resumes of Contributing Environmental Professionals

APPENDIX C Regional Hydrogeology and Geology

APPENDIX D Previous Environmental Investigations

APPENDIX E Field Sheets

APPENDIX F Laboratory Analytical Data, Chains of Custody, and Lab Affidavits

Lab Summary Table

APPENDIX G Regulatory Standards
G1 Generic Direct Contact Soil Standards
G2 Ground Water Standards Used in VAP Risk Assessment

APPENDIX H Analytical Data Summaries
Table H1 Soil Analytical Results
Table H2 Groundwater Analytical Results
Table H3 Soil Gas Analytical Results

APPENDIX I Soil Direct Contact Pathway
Table I1A Pre-Remedial Maximum Concentrations – All Depths
Table I1B Carcinogenic Risk Ratios – All Depths (Pre-Remedial)
Table I1C Non-Carcinogenic Risk Ratios – All Depths (Pre-Remedial)

APPENDIX J Vapor Intrusion Pathway
Table J1 Concentrations Used for Vapor Intrusion Modeling
Table J2 Vapor Intrusion Input Parameters
Table J3 Incremental Risk from the Indoor Air Pathway
J4 J/E Modeling Spreadsheets

APPENDIX K Groundwater Use
Table K1 Maximum Concentrations in Groundwater

APPENDIX L Leaching Analysis
Table L1 Partitioning Spreadsheet
Table L2 SAM Method Spreadsheet
Table L3 SESOIL Results Spreadsheet
L4 SESOIL Model Input and Output Sheets

1.0 Introduction

1.1 General

PANDEY Environmental, LLC (PANDEY) was authorized by its client, Port of Greater Cincinnati Development Authority, to conduct a Phase II investigation of the former Hudepohl Brewery properties located at 801 West 6th Street and 840 West 5th Street in Cincinnati, Ohio (hereafter referred to as the subject property). Future land use at the site is anticipated to be industrial.

The subject property is located in the Queensgate neighborhood, a mixed commercial and industrial section of Cincinnati, Ohio. The property is bordered to the north by US Route 50 (the 6th Street Viaduct), to the south by the Cincinnati Belt and Transmission warehouse and the Butternut Bakery, to the west by the former Queensgate jail, a county jail which closed in 2009, and to the east by Cincinnati Belt and Transmission. The subject property was most recently occupied by the Hudepohl Brewery. The site operated as a brewery from the 1860s to 1989, except for when it produced ice cream during prohibition. Since 1989 the site has been largely vacant, although portions of the remaining building have been used as temporary storage.

The subject property consists of approximately 2.68 acres. The brewery complex contained twelve (12) buildings. The subject property contains eleven (11) of these former building footprints. Building 12 (the shipping warehouse) is now owned and operated by Cincinnati Belt and Transmission. Buildings 2, 3, 8, 9, and 10 have been demolished. Buildings 1, 4, 5, 6, and 7 are still standing. Please see Figure 9 for a graphic representation of the building numbering scheme.

The subject property for the purposes of the Phase II Property Assessment consists of two (2) distinct parcels (listed below). Please see Appendix A of this report for a legal description and county auditor information for these properties.

Parcel I.D.	Auditor Acreage	Current Owner	Street Address
136-0004-0243-00	1.611	Hudepohl Square, LLC.	801 West 6th Street
136-0004-0242-00	1.069	West Fifth Lofts, LLC.	840 West 5th Street

1.2 Purpose

This Phase II property assessment report was prepared subsequent to the completion of an Ohio EPA Voluntary Action Program (VAP) Phase I property assessment report conducted at the 840 West 5th Street property by PANDEY Environmental, LLC. And an update of the VAP Phase I property assessment originally conducted by ATC Associates for the 801 West 6th Street property. The sampling and analysis plan for this Phase II assessment was developed based on the conclusions drawn in these Phase I Property Assessment reports. The conclusions drawn in the Phase I are based on best professional judgment and current Phase I Property Assessment evaluation methods including requirements of the Ohio EPA VAP. PANDEY conducted this Phase II assessment to further characterize areas identified by ATC in 2009 and to include the 840 West 5th property in this characterization.

This Phase II property assessment was conducted in accordance with the requirements set forth in Voluntary Action Program rule requirements as codified in Ohio Administrative Code (OAC) 3745-300-07, 3745-300-08, 3745-300-09, 3745-300-10, 3745-300-11, and 3745-300-13.

The purpose of this Phase II property assessment was to evaluate the site to determine the impact to environmental media from releases of hazardous substances that have occurred on, are underlying, or are emanating from the property. This Phase II property assessment included an investigation of the environmental media to determine whether applicable standards are met in the identified areas, as outlined in the Phase I report and Section 2.0 of this report.

Additionally, the purpose of this Phase II Assessment is to define the excess risk associated with the detection of chemicals of concern in environmental media at the subject property. This includes an analysis of all complete exposure pathways which are discussed in Section 10 of this report, as well as a determination of all receptor populations present at the property. The applicable risk goals for this demonstration have been established as a total cancer risk not to

exceed 1 excess cancer risk in 100,000 (i.e. 1E-5) and a total non-cancer Hazard Quotient for non-carcinogens of 1. These applicable risk goals are consistent with those established under the Ohio EPA VAP for the anticipated future land use.

1.2.1 Sampling Plan

Sampling plans for this site were developed as a result of Phase I assessments and ATC's 2010 Phase II assessment. PANDEY conducted its sampling to further characterize previously identified areas and to include the 840 West 5th property in this characterization.

1.2.2 Data Quality Objectives

Phase II activities are intended to investigate all identified areas potentially impacting the property identified in Section 2.2 below.

Soil sampling was conducted to ensure a minimum of three (3) samples per identified area when sampling could be biased toward areas of highest concentration. Laboratory reporting limits were expected to meet unrestricted direct contact soil standards.

Groundwater sampling was conducted to identify and, if necessary, delineate contaminants in groundwater at or above VAP unrestricted potable use standards.

Following completion of Phase II data collection activities, potential exposure pathways were fully evaluated for risk to receptor populations.

All laboratory data was reviewed prior to final reporting. Case narratives for each set of analyses is included with the laboratory data and certified laboratory affidavits found in the reports listed in this report. Further discussion of specific data quality objectives can be found in Sections 6.2 and 6.3 of this report.

1.2.3 Numeric Standards

Numerical standards for this Pathway & Risk Evaluation Report were obtained first from OAC 3745-300-08. In the event that numerical standards were not available in this rule, Ohio EPA

VAP's Chemical Information Database and Applicable Regulatory Standards (CIDARS) database was consulted. A listing of numerical standards used can be found in Appendix G. This listing also includes the source of the standard, and the date the standard went into effect. Because CIDARS databases are not dated, the date of download from Ohio EPA's website is listed as the standard date. Upon download of CIDARS information, numerical standards were compared to OAC 3745-300-08 as well as previous CIDARS downloads to ensure validity of any changes.

1.2.4 Correlation to VAP Rules

Rule Reference	Report Section	Title
3745-300-07(J)(1)	1.0	Introduction
3745-300-07(J)(1)	1.1	General
3745-300-07(B) 3745-300-09(I)(1)	1.2	Purpose
3745-300-07(C)(6)	1.2.1	Sampling Plan
3745-300-07(C)	1.2.2	Data Quality Objectives
3745-300-07(C)(1) 3745-300-09(I)(6)	1.2.3	Numerical Standards
3745-300-07(J)(1)	1.3	Dates
3745-300-07(J)(1)	1.4	Contributing Professionals
3745-300-07(E)(1), (J)(2)	2.0	Phase I Findings
3745-300-02, 3745-300-07(A)(2)	2.1	Eligibility
3745-300-07(A)(1), (C)(3)	2.2	Identified Areas
3745-300-07(F)(5)(e)	3.0	Non-Intrusive Investigations
3745-300-07(D)(3), (J)(4), (15),	4.0	Sampling Procedures
3745-300-07(D)(4), (E), (J)(5)	5.0	Data Collection Activities
3745-300-07(C), (D)(1), (D)(2), (F)(4)(f), 3745-300-09(I)(3)	6.0	Data Set
3745-300-07(H), (J)(7),	7.0	Background
3745-300-07(E)(3), (4)	8.0	Detections of COCs
3745-300-07(F)(5)(c)	8.1	Soil
3745-300-07(F)(5)(d), (F)(9)	8.2	Groundwater
3745-300-07(E)(3), (E)(4)	8.3	Soil Gas
3745-300-07(E)(2)	9.0	Geology and Hydrogeology
3745-300-07(E)(2)	9.1	Regional Geology/Hydrogeology
3745-300-07(E)(2)	9.2	Property-Specific Geology Hydrogeology
3745-300-07(F)(6),(7),(8), 3745-300-10(A), (B)	9.3	Groundwater Classification

Rule Reference	Report Section	Title
3745-300-07(E)(6), 3745-300-09(D)(3), (I)(4)	10.0	Exposure Pathways
3745-300-09(D)(3)(b)(i), (I)(4), 3745-300-07(E)(6)	10.1	Receptor Populations
3745-300-07(F)(1), 3745-300-09(D)(3)	10.2	Pathway Completeness Table
3745-300-07(F)(4), (G), (I), (J)(6), (8), (10), (12) 3745-300-08(E), 3745-300-09(H), (I)(5), (6)	11.0	Compliance Evaluation by Pathway
3745-300-07(H), (J)(7)	11.1	Comparison to Background
3745-300-09(C)(2)(b)	11.2	TPH
3745-300-08(D)(1)(f)	11.3	Lead
3745-300-07(I)(1)(a), 3745-300-08(C)(3)	11.4	Soil Direct Contact
3745-300-09(A)(4)(a)	11.5	Vapor Intrusion
3745-300-07(F)(2), (I)(1)(b)	11.6	Groundwater Use
3745-300-07(F)(3), 3745-300-08(I)	11.7	Leaching
3745-300-07(F)(1)	11.8	Contaminant Transport in Groundwater
3745-300-07(I)(4), (J)(11), (J)(12)	12.0	Remedial Response
3745-300-10(E)	12.1	Groundwater Response Requirements
3745-300-07(F)(2), (3), 3745-300-10(D)	12.1.1	POGWMUPUS
3745-300-07(J)(9), 3745-300-10(C)(3)	12.1.2	USD
3745-300-07(E)(6)(f), 3745-300-09(E), (I)(8)	12.1.3	Ecological Receptors
3745-300-09(D)(2)(c), (d), (I)(2)	12.2	Institutional/Engineering Controls
3745-300-07(J)(11)	12.3	Active Remedies
3745-300-08(A)(2)(a), 3745-300-09(D)(3)(d), (I)(7)(11)	13.0	Total Risk from All Pathways
3745-300-09(D)(3)(d)(iii)	13.1	Uncertainty Analysis
3745-300-07(J)(12)	14.0	Conclusions
3745-300-07(J)(3)	15.0	Statement of Limitations
3745-300-07(J)(15)	16.0	References
3745-300-07(J)(6)	Table 1	Identified Area Summary
3745-300-08(A)(2)(a), 3745-300-09(I)(8)	Table 2	Total Risk
3745-300-07(I)(4), (J)(11), (J)(12)	Table 3	Applicable Standards and Remedial Pathways
3745-300-07(J)(13)(d)	Figure 1	Identified Areas
3745-300-07(J)(13)(a)	Figure 2	Sample Location Maps
3745-300-07(J)(13)(d)	Figure 3	Soil Analytical Data Maps
3745-300-07(J)(13)(d)	Figure 4	Groundwater Analytical Data Maps
3745-300-07(J)(13)(d)	Figure 5	Soil Gas Analytical Data Maps
3745-300-07(J)(13)(c)	Figure 6	Potentiometric Surface Map
3745-300-07(J)(13)(c)	Figure 7	Geologic Cross Section
3745-300-07(J)(13)(e)	Figure 8	Remedial Activities

Rule Reference	Report Section	Title
3745-300-07(J)(13)(e)	Figure 9	Institutional / Engineering Controls
3745-300-07(J)(13)(b)	Figure 10	USGS Topographic Map
3745-300-07(J)(13)(b), (J)(14)	Appendix A	Legal Survey
3745-300-07(J)(1)	Appendix B	Resumes
3745-300-07(E)(7), (J)(16)	Appendix C	Regional Geology / Hydrogeology
3745-300-07(J)(15)	Appendix D	Previous Investigations
3745-300-07(J)(16)	Appendix E	Field Sheets
3745-300-07(D), (J)(15)	Appendix F	Lab Data / Affidavits
3745-300-07(C)(1), (D); 3745-300-09(B), (D)(3)(c), (I)6),	Appendix G	Regulatory Standards and Data Validation
3745-300-07(J)(5), (J)(16)	Appendix H	Analytical Data Summaries
3745-300-09(D)(3)(d)	Appendix I	Direct Contact Risk
3745-300-09(D)(3)(d), (I)(5)	Appendix J	J&E Spreadsheets
3745-300-07(J)(8), 3745-300-09(D)(3)(d)	Appendix K	Contaminant Transport in GW
3745-300-07(F)(3), (J)(8), 3745-300-08(I)	Appendix L	Leaching Analysis

1.3 Dates of Investigations

Data used for evaluation of the subject property came from a number of investigations conducted over a period of approximately four (4) years. In 2009 and 2010, ATC Associates, LLC. performed Phase I and Phase II investigations of the 801 West 6th Street property. PANDEY collected additional groundwater and soil gas samples from the eastern portion of the property in 2013. PANDEY conducted a Phase I Assessment of the 840 West 5th property in 2013. PANDEY subsequently collected additional soil, groundwater, and soil gas samples from the 840 West 5th property in 2013.

1.4 Contributing Professionals

PANDEY personnel contributing to this Phase II report include:

Atul Pandey, P.E.	Certified Professional
Nate Wanner, P.G.	Project Manager
Alex Harnocz	Environmental Scientist
Jason Martin	Environmental Scientist

Resumes of PANDEY personnel are available in Appendix B.

2.0 Phase I Findings

2.1 Eligibility

The eligibility of the subject property for participation in the Ohio EPA Voluntary Action Program was determined in the Phase I Property Assessment conducted on the subject property by PANDEY. This eligibility determination revealed no evidence of conditions which would prohibit the successful participation of the subject property in the Voluntary Action Program.

2.2 Identified Areas

These areas have been identified based on site inspection, interviews with facility personnel, review of previous environmental assessments, regulatory database searches, and review of historical resources.

Historic Industrial Use - Identified Area A

ATC's 2009 report outlines the entire property as an identified area based on its historic industrial use. This over-arching identification is drawn from six (6) specific concerns including: past use of the property for industrial purposes, presence of small quantities of residual chemicals and petroleum products, presence of widespread floor staining, past presence of electric generators and associated equipment, presence of suspected ACM in on-site buildings, and the likely presence of lead-based paint in on-site buildings. ACM in buildings and lead-based paint are outside the scope of the Voluntary Action Program (VAP). However, their potential presence in demolition debris is within the scope of the VAP.

Chemicals of concern in this area include VOCs, SVOCs, TPHs, metals, PCBs, and asbestos in soil.

Former Underground Storage Tank - Identified Area B

A 3,000 gallon steel tank formerly containing diesel fuel was removed from the southernmost extent of the grass area adjacent to the driveway of the 840 West 5th property on December 27, 2001. The closure action later received a no further action letter from Ohio BUSTR. While the

Closure Report showed that the tank removal met BUSTR standards, this area is still considered an identified area under VAP due to the potential for spills or other releases associated with the operation of the former diesel fuel pump and the absence of VAP-certified laboratory data. Chemicals of concern in this area include VOCs, PAHs and TPH-DRO.

Off-Property Concerns

Before the development of freeways in the vicinity of the subject property, the area north of the Hudepohl site was a dense urban neighborhood. This neighborhood included a variety of uses which have the potential to have released chemicals of concern to the subsurface. These releases have the potential to impact the subject property through groundwater contamination and vapor intrusion to basements at the subject property from volatiles in groundwater.

ATC's 2009 Phase I notes a nearby historic lumber yard as a potential source of sub-surface contamination at the subject property. This lumber yard operated from approximately 1883 until 1944. During this era, lumber would have been treated with creosote and other petroleum-based chemicals. This sort of treatment would have required dip tanks or other large structures that would have been noted on Sanborn Fire Insurance Maps, city records, or other sources. No such notation is present on maps including this lumberyard. Therefore, it is inferred that lumber treatment was likely not part of the operation.

The site most likely to impact the subject property is the New Troy Laundry which was listed at 844 West 6th Street, across 6th Street and up-gradient of the subject property, in the 1948 Haines City Directory. The handling and disposal of dry cleaning solvents during the mid-20th century is a common source of sub-surface contaminants. In addition to New Troy Laundry, other historic dry cleaners, auto service stations, and various industrial facilities are or have been located up-gradient of the subject property. The EDR radius search revealed Fuller Ford at 900 West 8th Street is a registered generator of ignitable hazardous waste and spent halogenated solvents. A Sunoco station at 901 West 8th Street was noted as a leaking underground storage tank site which has not yet received a no further action later. Chemicals of Concern from off-property impacts include VOCs and PAHs.

3.0 Non-Intrusive Investigations

3.1 PCB Wipe Samples

ATC's 2010 Phase II Investigation included wipe sampling to screen for PCBs. Please see Section 4.4.1 of ATC's Phase II Report, available in Appendix D, for a full discussion of the wipe sampling procedure. PCBs were detected in fifty-nine (59) of the eighty-five (85) wipe samples collected. Fourteen (14) of these samples from eight (8) distinct areas exceeded USEPA action levels for PCBs.

3.2 PCB Floor Core Samples

In three (3) areas where wipe samples detected PCBs above action levels, concrete core samples were taken to assess "worst-case" scenarios where PCBs may have penetrated concrete floors. Visual evidence of vertical staining was not observed in these core samples, and only one of the three concrete core samples contained PCBs over USEPA action levels. Please see sections 4.4.1 and 5.2.4 of ATC's 2010 Phase II Report, available in Appendix D, for further details on concrete core sampling for PCBs.

3.3 PCB Bulk Material Samples

Several materials were bulk sampled for PCBs after wipe samples demonstrated elevated levels of PCBs on the surface of these materials. Ten (10) samples of caulk and window glazing were collected and analyzed for PCBs. Only one (1) sample from the north side of Building 5 contained detectable levels of PCBs and this detection was well below the USEPA action level.

Seven (7) bulk samples of roofing material were collected from the roof of Building 1. PCBs were detected in all of these samples, and five (5) of these samples were above USEPA action levels for PCBs. This roofing material must be properly characterized and remediated prior to demolition or redevelopment. Please see sections 4.4.1 and 5.2.4 of ATC's 2010 Phase II Report, available in Appendix D for further details on bulk material sampling for PCBs.

4.0 Sampling Procedures

ATC Associates, LLC (ATC) conducted a subsurface investigation in 2010 which is detailed in Appendix D of this report.

PANDEY Environmental LLC. (PANDEY) conducted an additional subsurface investigation in 2013. The purpose of PANDEY's investigation was to further examine identified areas at the site as defined in the Phase I Property Assessment prepared for the site by ATC and to add the 840 West 5th property to the geographic scope of this investigation. The methods and procedures described in this section apply to the sampling and analysis of all subsurface media investigated by PANDEY during the course of this Phase II Property Assessment. Tables and figures of this report include data collected by Hull.

Laboratory Analytical Methods

VAP-certified laboratories are required to adhere to strict QA/QC procedures that have been predetermined and approved by Ohio EPA. The level of QA required for this project was consistent with the QA/QC procedures required under the VAP. The VAP certified laboratories Pace Analytical Services, Indianapolis (CL # 0065), Pace Analytical Services, Minneapolis (CL #0101), and Belmont Labs (CL #0032) performed analysis of soil, groundwater, and soil gas samples using the following methods:

VOCs	8260A, 8260B, and TO-15
SVOCs	8270C
PAHs	8270C
Metals	6010B, 7471A
PCBs	8082
TPH	8015A, 8015B

Additional details on these analyses can be found on the Lab Summary Table included in Appendix F of this report.

The laboratory data, affidavits, case narrative, and chain of custody forms are provided in Appendix F of this report.

The Quality Control (QC) and Quality Assurance (QA) specifications for PANDEY investigations at the property located at 840 West 5th Street and 801 West 6th Street in Cincinnati, Ohio are outlined herein. These specifications describe the QA/QC requirement set up for collecting and analyzing samples for chemical analyses. The QA/QC procedures were used to assess the accuracy, precision, completeness, representativeness, and comparability of the analytical data.

Field Sampling and Analysis Program

The field team conducting the assessment adhered to the field sampling and analysis program detailed below. It included specific requirements outlining the procedures to be followed in relation to sample handling, packaging, and shipping. It also set guidelines for field documentation procedures.

Sample Handling, Packaging, and Shipping Requirements

Upon collection, samples were placed into their appropriate sample containers. The exterior of the sample containers were wiped clean and affixed with the proper labeling. Samples collected at the site were uniquely labeled with an alphanumeric sample identifier. Sample label information was completed using waterproof black ink. The labels contained such information as:

- Sample identification based on the sampling location;
- Time and date of collection; and,
- Parameters to be analyzed;

The samples were packaged and sealed in a cooler and shipped to the lab. Chain of custody documentation accompanied each group of samples submitted to the lab.

Field Documentation Procedures

The field team was required to maintain field logs including information on site conditions, personnel at the site, and other pertinent information. Drilling and well installation information was recorded on log forms. PANDEY forms are presented in Appendix E of this report.

Analytical Program

The analytical program for the VAP Phase II Assessment was set up in accordance with the requirements issued under the VAP. As such, the procedures used by the laboratories are approved and comply with the applicable requirements of the Ohio Revised Code (ORC) Chapter 3746 and the rules adopted under the Ohio Administrative Code (OAC) Chapter 3745-300-04. The level of QC required of the laboratories for this project was consistent with the QA/QC procedures required under the VAP. The VAP-certified laboratories that performed analyses were Pace Analytical Services, Inc., and Belmont Laboratories. Laboratory QA/QC data is included with the analytical reports in Appendix F of this report.

5.0 Data Collection Activities

5.1 2010 Phase II Investigation

ATC advanced sixteen (16) soil bores (SB-1 through SB-12 and MW-1 through MW-4) during the 2010 investigation in order to investigate chemicals of concern in identified areas outlined in their 2009 Phase I Assessment. Four (4) of these soil bores were modified into permanent monitoring wells. An additional monitoring well (MW-5) was installed later, but no soil samples were taken from this location. The samples from this mobilization were analyzed by Belmont Labs.

Please see ATC's Phase II Report in Appendix D of this report for detailed sampling methodology.

5.2 2013 Phase II Investigation

PANDEY advanced an additional three (3) soil bores during the 2013 investigation (SB-13, MW-6, and MW-7). Two (2) of these bores were completed as permanent monitoring wells. These bores were installed to expand the geographic scope of the assessment to cover the 840 West 5th property.

Soil Sampling Methodology

Soil sampling was conducted using an AMS direct-push unit installed on a trailer-mounted Deidrich drilling rig. The rig utilized direct push technology with three (3) foot long continuous split spoon sampling. The sampling spoons were equipped with disposable acetate sleeve liners.

Soil samples were collected in two foot intervals and logged with respect to soil classification, color, moisture, and odor. Soil samples were selected for laboratory analysis based on readings from a Mini-RAE Photo-ionization Detector (PID) and visual observations and/or olfactory indications of contamination.

Soil samples collected for laboratory analysis were placed in glass soil jars with Teflon lids and placed in an iced cooler. Samples selected for appropriate laboratory analysis were shipped to Pace Analytical, an Ohio EPA VAP certified laboratory. Laboratory chain of custody documentation and analytical results are included in Appendix F of this report. The field logs for these soil bores are presented in Appendix E of this report.

Boreholes were abandoned by filling with hydrated bentonite clay.

PANDEY installed and sampled groundwater from two (2) new monitoring wells on the 840 West 5th property. Additionally, PANDEY re-sampled the existing monitoring wells on the 801 West 6th property with the exception of MW-1, which could not be located and is presumed to be under building debris. A total of four (4) groundwater monitoring wells were re-sampled in 2013.

Monitoring Well Installation

A trailer mounted rig was utilized to install the permanent groundwater monitoring wells designated as MW-6 and MW-7. The monitoring wells were advanced using eight-inch hollow stem augers. The wells were advanced to a total depth of between 35 and 45 feet below ground surface. The monitoring wells were constructed of two-inch inside diameter PVC Schedule 40 riser pipe with jointed threading and ten feet of 0.010-inch factory slotted PVC Schedule 40 screen and end cap.

For all monitoring wells installed, the annular space around the PVC pipe was filled with sand from total depth to two feet above the screen, and the remaining annular space was backfilled with hydrated sodium bentonite chips. Figure 2 of this report presents the monitoring well locations. A flush mounted well cap was placed atop the well risers after installation. The wells were logged for their lithology as they progressed. The monitoring well logs for these wells are presented in Appendix E of this report.

For notes on the installation of the wells at 801 West 6th, please see ATC's Phase II Report in Appendix D of this report.

Groundwater Sampling Methodology

Water level measurements were collected during sampling using an electric water level indicator during sample collection to ensure sampling rates did not exceed aquifer capacity. Groundwater samples were collected from the wells and analyzed for appropriate parameters. The well samples were collected using a bladder pump and low flow sampling techniques.

The sample from MW-4 was collected using a bailer due to constraints in the field. Three (3) well volumes were purged from the well using a new, non-reactive bailer. After the well volumes were purged, a sample was collected directly from the bailer.

A sample was collected via a new, non-reactive plastic bailer from the production well located in the basement of Building 1. This sample was collected as a grab sample for screening purposes only because of safety and access limitations which precluded the use of low-flow sample collection procedures.

The groundwater samples were placed in an iced cooler for transport to Pace Analytical Services, Inc.

Sampling forms are included in Appendix B of this report.

PANDEY installed six (6) sub-slab soil gas collection points across both properties. Samples from these points along with an ambient air sample were submitted in the course of the 2013 investigation.

The construction, installation, and sampling of these sub-slab sampling points are discussed below.

Soil Vapor Sampling Methodology

Soil vapor probes were installed to a depth just below the base of the concrete slab using an electric hammer drill.

Perforations were drilled in the bottom two (2) inches of a 0.25-inch diameter nylon tube. This tube was inserted into the boring/probe location. Annular space around the tube was filled with clean filter sand. The top four (4) to six (6) inches of annular space was filled with fine granular bentonite clay. The bentonite clay was slowly hydrated until water pooled at the surface. This bentonite layer forms a seal and reduces the chance of sampling ambient air. Vapor sampling was conducted after a period of at least twenty-four (24) hours to allow for recovery of subsurface vapor.

A peristaltic pump was used to purge the probe location to help ensure that stagnant air was removed and that samples would be representative of subsurface conditions.

Vapor samples were collected as time-integrated (one-hour) samples. The SUMMA Canisters used were batch certified clean by Pace Analytical, and equipped with a pre-calibrated flow controller. An identification tag indicating canister serial number, sample number, collection time and date was attached to the canister once sampling was complete. The canisters were packaged and shipped to Pace Analytical's Minneapolis Laboratory, an Ohio EPA VAP certified laboratory. Laboratory chain of custody documentation and analytical results are included in Appendix F of this report.

The samples from the 2013 mobilization were analyzed by Pace Analytical.

6.0 Data Set

6.1 Data Validation

All laboratory data was reviewed prior to final reporting. Case narratives for each set of analyses is included with the laboratory data and certified laboratory affidavits found in the reports listed above. Lab data and affidavits can be found in Appendix F of this report.

Asbestos results from soil samples collected during ATC's 2010 investigation were not analyzed by a laboratory certified by the Voluntary Action Program. However, there is no reason to believe that the asbestos results showed false detections. Additional quantification or analysis may be required if a VAP no further action (NFA) letter is pursued.

6.2 Soil Data Quality Objectives

All soil analyses were evaluated to ensure that laboratory reporting limits were not higher than the Generic Direct Contact Soil Standards (GDCSS), as presented in Appendix G of this report.

Methylene chloride was detected in two (2) soil samples. In ATC's 2010 report, they regarded these detections as laboratory artifacts not representative of field conditions and eliminated them from further consideration in the report. We concur with this judgment.

Please see Sections 4.5.2 and 5.3 of ATC's 2010 Phase II Report for a full discussion on data quality objectives for the ATC data. ATC stated, "no substantial issues or irregularities were noted relative to laboratory analytical data generated in support of this project."

6.3 Groundwater Data Quality Objectives

All groundwater analyses were evaluated to ensure that laboratory method detection limits (MDLs) were not higher than Federal Maximum Contaminant Levels (MCLs) or VAP Unrestricted Potable Use Standards (UPUS) this information is presented in detail in Appendix G of this report.

Please see Sections 4.5.2 and 5.3 of ATC's 2010 Phase II Report for a full discussion on data quality objectives for the ATC data. ATC stated, "no substantial issues or irregularities were noted relative to laboratory analytical data generated in support of this project."

7.0 Background

No background testing was necessary for this project.

8.0 Detections of Chemicals of Concern

Various chemicals of concern have been identified in the environmental media at the subject property during ATC's 2010 investigation and PANDEY's Phase II investigation in 2013. The following sections discuss the detections of these chemicals on an identified area basis. Identified areas are shown on Figure 1. A full evaluation of detections, exposure pathways, and compliance is contained in Sections 10 and 11 of this report.

8.1 Soil

Locations of soil samples can be found on Figures 2 and 3. Soil analytical results are presented in Table H1 in Appendix H. Please note that Table H1 contains all soil data relevant to the present property conditions. Representative values used in risk evaluation of pathways are summarized in corresponding exposure pathway appendices, as detailed in Section 11.

8.1.1 Historic Industrial Use (Identified Area A)

This identified area is related to historic industrial operations across the property. Chemicals of concern (COCs) identified by ATC in this area include VOCs, PAHs, TPH, PCBs and metals. This area was investigated during ATC's 2010 investigation. ATC advanced fifteen (15) soil bores (SB-1 through SB-11 and MW-1 through MW-4). Four (4) of these bores were subsequently converted to permanent monitoring wells. Additionally, soil samples were taken from three (3) test pits dug in the debris area. Analytical results indicated that chemicals of concern including various metals, PAHs, TPH, PCBs, and one detection of the VOC acetone were found across this identified area during the 2010 Phase II investigation. Asbestos was also detected in five (5) of seven (7) soil samples in this area. There is not a VAP standard for asbestos in soil but this presents a concern for risk to future inhabitants and particularly construction/excavation workers at the subject property.

Benzo(a)pyrene in the SB-11:4-6' sample exceeded its VAP single-chemical generic direct contact soil standard (GDCSS) for commercial/industrial use. TPH in the C10-C20 range in the same sample exceeded its VAP GDCSS. Lead in samples including SB-5: 20-21' and several of the test pit samples exceeded the VAP GDCSS for lead.

In 2013, PANDEY reviewed the data presented in ATC's Phase I and Phase II reports. Identified Area A was expanded to cover the 840 West 5th property. However, PCBs were not expected on this side of the property, since records indicate that electric generation equipment was confined to the east side of the site.

During the 2013 Phase II investigation, PANDEY advanced three (3) soil bores. Two (2) of these bores were subsequently converted into permanent monitoring wells. These samples were analyzed for VOCs, SVOCs, TPH, and metals.

Various metals, SVOCs, and TPH were detected in these samples, but all detections were below their respective VAP GDCSS values for commercial/industrial use.

8.1.2 Former Underground Storage Tank (IA-B)

A 3,000 gallon steel tank formerly containing diesel fuel was removed from the southernmost extent of the grass area adjacent to the driveway of the 840 West 5th property on December 27, 2001. No petroleum contamination was found in samples taken from this tank site. The closure action later received a no further action letter from Ohio BUSTR. While the Closure Report showed that the tank removal met BUSTR standards, this area is still considered an identified area under VAP due to the potential for spills or other releases associated with the operation of the former diesel fuel pump and the absence of VAP-certified laboratory data.

Several metals were detected in these samples, but all compounds were below their respective VAP GDCSS values for commercial/industrial use. All other analytes were not detected above reporting limits. No evidence of petroleum contamination was observed.

8.2 Groundwater

Locations of groundwater wells can be found on Figures 2. Groundwater analytical results are presented in Table H2 in Appendix H.

8.2.1 Off-Property Sources

Groundwater monitoring wells were installed and sampled at the subject property to investigate the potential impact of off-property sources to the groundwater underlying the subject property. Among a number of possible sources, the most likely is the former New Troy Laundry, formerly located at 844 West 6th street, roughly across 6th Avenue from Building 6 of the Hudepohl Complex.

Groundwater in monitoring wells MW-1 through MW-4 was analyzed for VOCs and PAHs in July of 2010. No PAHs were detected in any of the samples. All VOCs were also non-detect, except for trichloroethene in MW-1 and MW-3. In both samples trichloroethene concentrations exceeded the VAP unrestricted potable use standard (UPUS) of 5 µg/L. ATC subsequently installed MW-5 in October of 2010 to further delineate and characterize the extent of trichloroethene in groundwater.

PANDEY installed monitoring wells MW-6 and MW-7 in February of 2013 to delineate and characterize potential groundwater contamination at the 840 West 5th property. During the 2013 investigation, MW-1 could not be located and is assumed to be buried under building debris. All of the remaining wells were sampled for VOCs. Trichloroethene was detected in MW-3, MW-5, and MW-7. In each sample, the concentration of trichloroethene exceeded VAP UPUS.

8.3 Soil Gas

Locations of soil gas collection points can be found on Figures 2. Soil gas analytical data is presented in Table H3 in Appendix H.

Soil gas was collected from six (6) sub-slab vapor points across the site to evaluate site-wide risk from vapor intrusion. A sub-slab point was installed on the lowest level of each of the major buildings at the subject property with the exception of Building 5. The basement of Building 5 is accessible only by ladder through a former pallet elevator shaft, and equipment could not safely be brought into the basement of Building 5. As a result, SG-2 is located in the basement of Building 6, close to the wall which directly adjoins Building 5.

Trichloroethene and tetrachloroethene were detected in soil gas samples. However, trichloroethene was also detected in the ambient air control sample, indicating the possibility that at least some of the trichloroethene found in the samples may be attributed to lab contamination. For further details, see the tables and figures in this report. Further evaluation of the vapor intrusion pathway is presented in Section 11.5.

9.0 Geology and Hydrogeology

9.1 Regional Geology / Hydrogeology

A review of the Soil Survey of Hamilton County was conducted utilizing the USDA Natural Resources Conservation Service website (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx). According to the Soil Survey, the area of subject property is underlain by the Urban Land Complex. The urban land designation indicates that 65 percent or more of the predominant soil type has been disturbed and covered with an impervious layer consisting of buildings, sidewalks, streets and other structures. Portions of the subject property are listed as Urban Land – Occasionally Flooded. A copy of the soil report is included in Appendix I of this report.

The "Groundwater Resources Map of Hamilton County" (Alfred C. Walker, 1986) indicates that the subject property is located in an area in which yields of 1,000 gallons per minute (GPM) or more have been reported. The map describes this area as follows: "Best ground-water areas in Hamilton County. Permeable sand and gravel deposits in ancient stream channels, suitable for large industrial well field development. Yields of as much as 1,000 gallons per minute have been reported." A copy of the Groundwater Resources Map is presented in Appendix J of this report. This map was obtained from the Ohio Department of Natural Resources.

Water wells logs maintained by the Ohio Department of Natural Resources were reviewed for wells within ½ mile of the subject property. Many of these wells were relatively shallow monitoring wells. However, several of the wells extended through the sand and gravel zone and encountered bedrock—broken limestone or shale—at depths ranging from 85 to 122 feet below ground surface.

ODNR Well logs and maps providing additional details on regional geology can be found in Appendix C of this report.

9.2 Property-Specific Geology / Hydrogeology

Topographic maps show that the property is located approximately 500 feet above mean sea level. Most of the site is covered by buildings. The open parts of the site are relatively level and near the grade of West 6th Street, except for the 840 West 5th driveway which slopes to the south to meet the grade of West 5th Street. Although the property and the surrounding area slope to the southwest toward the Ohio River, shallow groundwater at the subject property flows toward the southeast. The Ohio River is located less than half a mile south of the subject property.

Soils at the subject property consist of varying depths of fill overlying sand and gravel. Fill including clay, brick, concrete, cinders, glass, and other various anthropogenic materials extends up to 30 feet deep on the eastern portion of the site where deep cellars were filled in with building debris.

On the west end of the site, fill material and clay (likely imported as fill) give way to sand and gravel layers which extend to the total depth of the bores. Bedrock was not encountered as part of this investigation. Groundwater was encountered at 31.45 below ground surface (at MW-7, which is at a lower elevation than the other wells) to 53 feet below ground surface at MW-4. As part of their 2010 report, ATC tied their survey of monitoring well casings to a survey of the city's sewer manholes. As a result, we know that groundwater at the subject property was located at approximately 466 feet above mean sea level at the subject property on February 22, 2013.

9.2.1 Groundwater Flow

Based on static water levels measured at the property on July 12, 2010; October 5, 2010; and February 22, 2013 the groundwater flow direction of the upper saturated zone is from northwest to southeast. Potentiometric surface maps for the upper saturated zone based on these static water levels are included in ATC's Phase II report and Figure 6 of this report.

9.2.2 Geotechnical Analysis

No Geotechnical analysis was required as part of this Phase II investigation.

9.3 Groundwater Classification

In accordance with OAC 3745-300-10, groundwater classification is required as part of the Phase II Assessment if groundwater underlying the subject property contains a COC(s) at concentrations in excess of UPUS. As discussed in 9.2, the upper saturated zone extends from approximately 35 feet below ground surface to the top of the shale / limestone bedrock, which was not encountered during the course of this investigation but is likely located at approximately 85 to 120 feet below ground surface based on nearby ODNR water well logs. Based on this data, the upper saturated zone ranges from approximately 50 to 85 feet in thickness.

The VOC trichloroethene was detected in the upper-most unconsolidated aquifer at concentrations exceeding UPUS, therefore, classification of the groundwater in this unit is necessary.

In accordance with the groundwater classification system established in OAC 3745-300-10, three classifications for groundwater area listed, including: critical resource groundwater, Class A groundwater, and Class B groundwater. Groundwater that meets any of the following criteria is classified as critical resource groundwater:

1. The groundwater zone is used by a public water system and is located in a drinking water source protection area for a public water system using groundwater;

2. The groundwater is located in an unconsolidated saturated zone that is capable of yielding groundwater at a time-weighted average rate greater than 100 gpm over a 24 hour period as determined in accordance with OAC 3745-300-07; or

3. The groundwater is in a consolidated saturated zone that is part of a sole source aquifer.

Groundwater that does not meet any of the aforementioned criteria is Class A groundwater if any of the following criteria are met:

1. The groundwater is located in a saturated zone that is currently utilized as a source of potable water on the Property or within one-half mile of the Property boundary; or

2. The groundwater located in the saturated zone has a background level of TDS of less than 3,000 milligrams per liter (mg/L), and the groundwater is in a saturated zone capable of yielding water at a time-weighted average greater than 0.1 gpm over a 24-hour period, with the yield determined in accordance with OAC 3745-300-7, with the exception of the following:

   a. Groundwater is located in a saturated zone that yields less than 3gpm as determined in accordance with 3745-300-7(F)(8), and another groundwater zone underlies the Property that is a potential source of potable water within one mile of the Property. The groundwater zone used for comparison must be present beneath the Property and the surrounding area off-Property, and yield at least 3 gpm and at least twice as much groundwater as the zone being classified; or

   b. The groundwater is in an unconsolidated saturated zone that yields less than 3 gpm over a 24-hour period and all parts of the zone are wholly contained within 15 feet of the ground surface.

Groundwater that does not meet any of the criteria for critical resource groundwater or Class A groundwater is classified as Class B groundwater.

9.3.1 Zone 1 (Shallowest)

Groundwater in the upper saturated zone at the subject property is not used as a source for a public water system and is not located within a drinking water source protection area for a public system using groundwater. Groundwater in the upper saturated zone is not in a consolidated zone that is part of a sole source aquifer as defined in OAC 3745-300-01. However, groundwater in

the upper saturated zone is within an unconsolidated water zone, and based upon review of the Ohio Department of Natural Resources *Groundwater Resources Map of Hamilton County* (Alfred C. Walker, 1986) indicates that the subject property is located in an area in which yields of 1,000 gallons per minute (GPM) or more have been reported. The map indicates that the subject property is located in the "Best ground-water areas in Hamilton County. Permeable sand and gravel deposits in ancient stream channels, suitable for large industrial well field development. Yields of as much as 1,000 gallons per minute have been reported." Therefore, the uppermost saturated zone at the subject property is classified Critical Resource groundwater. A copy of the Groundwater Resources Map is presented in Appendix J of this report.

9.3.2 Zone 2

No source or source areas at the subject property have been identified that could potentially impact shallow groundwater (Zone 1). As such, sampling and classification of deeper ground water was not performed. However, a sample was collected from a production well at approximately sixty (60) feet. No VOCs were detected in the sample. Because safety and access constraints prevented sampling in full accordance with Standard Operating Procedures (SOPs), this is considered a screening level sample and was collected to provide additional site information rather than to demonstrate compliance.

10.0 Exposure Pathways

The exposure assessment conducted for the Former Hudepohl Brewery identifies potential routes of exposure, appropriate chemicals of concern, and receptor populations. For the purposes of this Pathway & Risk Evaluation Report, all identified areas at the property and their associated detections of chemicals of concern have been evaluated as a single exposure unit.

10.1 Receptor Populations

The potential receptor populations have been assessed following the requirements of OAC 3745-300-07 (D)(1)(g). The receptor populations identified for the current and anticipated future land use category of commercial/industrial include workers at the property as well as the occasional visitor. In addition, the potential for the exposure of a construction worker during site improvements also exists. These receptor populations (i.e. worker/visitor and construction worker) will be considered for each pathway identified at the property.

Redevelopment of the property is anticipated to be industrial.

10.2 Pathway Completeness Table

PATHWAY COMPLETENESS ANALYSIS				
Identified Area: All Identified Areas at the Former Hudepohl Brewery				
Pathway	**Location**	**Complete Without Remedy? (Yes/No)**	**Complete After Remedy? (Yes/No)**	**Receptors for Complete Pathways Explanation for Incomplete Pathways**
Soils: Direct Contact	**On Property**	**Yes**	**N/A**	**Workers, visitors, and construction workers may come into contact with soil.**

PATHWAY COMPLETENESS ANALYSIS

Identified Area: All Identified Areas at the Former Hudepohl Brewery

Pathway	Location	Complete Without Remedy? (Yes/No)	Complete After Remedy? (Yes/No)	Receptors for Complete Pathways Explanation for Incomplete Pathways
	Off Property	No	N/A	Contamination restricted to subject property.
Soil: Vapor Intrusion to Indoor Air	On Property	Yes	N/A	Sources of volatile and semi-volatile emissions exist in soil.
	Off Property	Yes	N/A	Sources of volatile and semi-volatile emissions exist in soil which may leave the subject property.
Soil: Ecological	On Property	No	N/A	No receptor.
	Off Property	No	N/A	No transport mechanism for this pathway.

Pathway	Location	Complete Without Remedy? (Yes/No)	Complete After Remedy? (Yes/No)	Receptors for Complete Pathways Explanation for Incomplete Pathways
Ground Water: Potable	On Property	Yes	N/A	Groundwater classified Critical Resource, which is a potable designation. Chemicals of concern were detected in groundwater which exceed UPUS.
	Off Property	No	N/A	Source area not located on subject property.
Ground Water: Non-potable	On Property	Yes	N/A	Chemicals of concern were detected in groundwater.
	Off Property	No	N/A	Source area not located on subject property.
Ground Water: Vapor Intrusion to Indoor Air	On Property	Yes	N/A	A volatile source or source area exists on-property in groundwater.
	Off Property	No	N/A	Source area is not located on subject property.
Ground Water: Construction Worker	On Property	No	N/A	Given the depth to groundwater, it is unlikely that a construction worker would encounter groundwater.
	Off Property	No	N/A	Given the depth to groundwater, it is unlikely that a construction worker would encounter groundwater.

Pathway	Location	Complete Without Remedy? (Yes/No)	Complete After Remedy? (Yes/No)	Receptors for Complete Pathways Explanation for Incomplete Pathways
Surface Water: Potable	On Property	No	N/A	No surface water exists on property.
	Off Property	No	N/A	No source exists on the subject property for completion of this pathway.
Surface Water: Non-Potable	On Property	No	N/A	No surface water exists on property.
	Off Property	No	N/A	No source exists on the subject property for completion of this pathway.
Surface Water: Ecological	On Property	No	N/A	No surface water exists on property.
	Off Property	No	N/A	No source exists on the subject property for completion of this pathway.
Sediments: Direct Contact	On Property	No	N/A	No sediments exists on property.
	Off Property	No	N/A	No source exists on the subject property for completion of this pathway.
Sediments: Ecological	On Property	No	N/A	No sediments exist on property.
	Off Property	No	N/A	No source exists on the subject property for completion of this pathway.

11.0 Compliance Evaluation by Pathway

The following sections describe the methodology used to evaluate risk from complete exposure pathways.

A summary of the regulatory standards used in this pathway and risk evaluation can be found in Appendix G of this report.

11.1 Comparison to Background

No background analysis was necessary at this property.

11.2 Total Petroleum Hydrocarbons

Soils at the subject property consist of fill including clay, sand, brick, and crushed concrete overlying sand and gravel. In accordance with OAC 3745-300-09(C)(2)(b), total petroleum hydrocarbon concentrations were compared to soil saturation concentrations in Table I of the rule according to their fraction. Analytical results were compared to Table I in the following manner:

Petroleum Fraction	Residual Saturation for Sand & Gravel or Unknown Soil (Type 1)	Residual Saturations for Silty/Clayey Sand (Type 2)	Residual Saturation for Glacial Till and Silty Clay (Type 3)
Light (C_6 -C_{12})	**1,000**	**5,000**	**8,000**
Middle (C10 –C20)	**2,000**	**10,000**	**20,000**
Heavy (C20-C34)	**5,000**	**20,000**	**40,000**

There were no detections in the Light Distillate Fraction (C6-C12). The Type 1 residual saturation for this fraction is 1,000 ppm, indicating there is no excess risk at the subject property relative to the light distillate fraction of TPH.

The highest detection in the Middle Distillate Fraction (C10-C20) was 844 ppm at SB-11: 4-6' The Type 1 residual saturation for this fraction is 2,000 ppm, indicating there is no excess risk at the subject property relative to the middle distillate fraction of TPH.

The highest detection in the Heavy Distillate Fraction (C20-C34) was 7600 ppm at SB-11: 4-6'. The Type 1 residual saturation for this fraction is 5,000 ppm. This indicates that there is excess risk from this TPH fraction at the subject property in a limited area near B-11.

No free product was detected on groundwater at the subject property.

Based upon the above analyses, the subject property is not compliant with applicable standards for total petroleum hydrocarbons (TPH). Therefore, there is excess risk posed to commercial/industrial inhabitants and construction/excavation workers as a result of TPH in soils at the subject property. Remediation or mitigation will be required before redevelopment can take place.

11.3 Lead

Commercial/Industrial Direct Contact

Thirty-one (31) soil samples were analyzed for lead at the subject property. These 31 samples had detections ranging from 2.87 to 5,800 ppm. The detections which exceed the VAP commercial/industrial GDCSS of 1,800 ppm are at SB-5: 20-21' (5800 ppm), and TP-3:2' (2360 ppm). Therefore, there is excess risk posed to commercial/industrial inhabitants as a result of lead in soils at the subject property. Remediation or mitigation will be required before redevelopment can take place.

Construction Worker Direct Contact

Thirty-one (31) soil samples were analyzed for lead at the subject property. These 31 samples had detections ranging from 2.87 to 5,800 ppm. The detections which exceed the VAP

construction worker GDCSS of 750 ppm are at SB-5: 20-21’ (5800 ppm), TP-1: 2’ (1030 ppm), TP-2: 15’ (924 ppm), and TP-3:2’ (2360 ppm).

Lead values at the subject property currently pose excess risk to a construction worker receptor.

11.4 Soil Direct Contact

11.4.1 Commercial / Industrial Land Use

The maximum concentrations of all chemicals of concern in the soils at the subject property were below VAP single chemical commercial/industrial standards for direct contact with soil with the exception of 24.6 ppm benzo(a)pyrene in SB-11: 4-6’. The VAP GDCSS value for benzo(a)pyrene in a commercial/industrial scenario is 7.7 ppm. As such, direct contact with soils poses excess risk to a commercial/industrial receptor.

Because benzo(a)pyrene exceeded its single-chemical GDCSS, a multiple-chemical adjustment was not performed.

11.4.2 Construction / Excavation Worker

The maximum concentrations of all chemicals of concern in soils at the subject property were below the associated VAP single chemical construction worker standards for direct contact with soil, with the exception of lead as discussed earlier in Section 11.3.

11.4.3 Asbestos in Soil / Building Debris

Five (5) of seven (7) soil samples collected from test pits in the building debris area contained asbestos containing materials (ACM). The VAP program does not presently have a standard for asbestos in soil. Although risk assessment methodologies are available, they are complex and Ohio EPA VAP generally recommends removal or mitigation of asbestos-impacted soils.

11.5 Vapor Intrusion

Evaluation of subsurface vapor intrusion was conducted in accordance with Ohio EPA’s May 2010 guidance document titled “Sample Collection & Evaluation of Vapor Intrusion to Indoor Air.”

Evaluation of the potential for vapor intrusion to indoor air was performed by the following steps:

1. Determination of incremental risk from chemicals of concern detected in soil gas collected beneath building slabs at the subject property.
2. Determination of incremental risk from chemicals of concern detected in soil that were not further evaluated by collection of a soil gas sample.
3. Determination of incremental risk from chemicals of concern detected in groundwater that were not further evaluated by collection of a soil gas sample.

Evaluation was performed by comparison to screening levels, as well as modeling using Johnson & Ettinger (J&E) spreadsheets. The following overview of J&E modeling was summarized from the "User's Guide for Evaluating Subsurface Vapor Intrusion Into Buildings" published by US EPA and revised on February 22, 2004.

Volatilization of contaminants located in subsurface soils or in groundwater and the subsequent mass transport of these vapors into indoor spaces constitutes a potential inhalation exposure pathway.

Johnson and Ettinger (J&E) (1991) introduced a screening-level model that incorporates both convective and diffusive mechanisms for estimating the transport of contaminant vapors emanating from either subsurface soils or groundwater into indoor spaces located directly above the source of contamination. In their article, J&E reported that the results of the model were in qualitative agreement with published experimental case histories and in good qualitative and quantitative agreement with detailed three-dimensional numerical modeling of radon transport into houses.

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of

contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

Model results are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

The infinite source models for soil contamination and groundwater contamination are intended as first-tier screening tools. In these models, all but the most sensitive model parameters have been set equal to central tendency or upper bound values. Values for the most sensitive parameters may be user-defined.

Table J2 in Appendix J contains site-specific input values used for J&E modeling in the risk evaluation. Commercial/industrial input values from Section 11 of the 2010 Ohio EPA guidance were used in the J&E modeling. Because risk assumptions are more conservative for a commercial/industrial receptor, this evaluation is also applicable to the construction/excavation worker.

11.5.1 Measured Soil Gas Concentrations

Maximum concentrations of chemicals of concern as detected at the property in all identified areas at six (6) sub-slab vapor collection points were selected to determine the incremental risk associated with the indoor inhalation pathway. A summary of these values can be found in Table H3, as well as Table J1 in Appendix J.

The User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings (U.S. EPA, Revised Feb. 22, 2004) presents a screening list of chemicals in Table 1. A similar table can be found in

Appendix A of the Ohio EPA guidance document titled "Sample Collection & Evaluation of Vapor Intrusion to Indoor Air (May 2010)." From these tables, it was determined that certain chemicals detected in soil gas at the subject property are either not toxic enough or not volatile enough to contribute excess risk via the indoor air pathway, and are therefore not Chemicals of Concern (CoC) for this pathway.

The maximum detection found in any soil gas sample at the property for the remaining chemicals were analyzed utilizing the Johnson and Ettinger Soil Advanced Level spreadsheet model for the soil gas to indoor air pathway.

This is summarized in the following table:

Detected Compounds	Means of Assessing Vapor Intrusion
Tetrachloroethene	J&E Modeling
Trichloroethene	J&E Modeling

Chemical data from the US EPA IRIS database was used for toxicity in risk evaluation. If IRIS data was unavailable for a particular compound, Ohio EPA VAP's CIDARS database was used. If data was not available in CIDARS, then data from the Johnson & Ettinger model spreadsheet defaults was used in this exercise. The values used are summarized in Table J2 of Appendix J.

The Johnson & Ettinger model was run using both the slab on grade construction and basement construction scenarios, and the more conservative risk result was added to the incremental risk value for the indoor air pathway as can be seen on Table J4 in Appendix J of this report. Buildings at the property have basements and cellars of varying depths. However, in anticipation of redevelopment, the modeling runs were performed with the standard basement depth value of 200 centimeters. Table J4 also notes which environmental media the concentration is modeled from. These values are included in calculation of total risk in Section 13.

Average soil/groundwater temperature was assumed to be 11ºC. Soil type was entered as sand (S) because it is the most conservative value and geotechnical data was not collected from the sample points which contributed to this analysis – soil gas samples were collected directly beneath building slabs and not within native soils. Samples were collected directly beneath the

concrete slab (~30 cm). When modeling, soil gas concentrations were assumed to be present at equal concentrations at a depth of 15 or 200 cm regardless of the actual depth of the basement where the sample was taken. Conservative values were entered as default values in the spreadsheet for both soil properties and depth of contamination encountered. Exposure frequency and duration values were set to standard commercial/industrial values.

Table J4 in Appendix J of this report summarizes the results of the modeling runs for each chemical of concern and the associated incremental risk values for carcinogens and non-carcinogens. A summary of the concentrations used as model inputs can be found in Table J2 of Appendix J. Johnson & Ettinger Model input and output sheets can be found in Appendix J of this report.

Although soil gas concentrations of chlorinated compounds are in line with anticipated values as a result of groundwater contamination, additional soil gas sampling may be required prior to issuance of a VAP no further action letter to demonstrate seasonal and temporal variations.

11.5.2 Soil Contributions

As discussed earlier in Section 5.4 and shown on Table J1B in Appendix J, soil gas sampling locations were placed in areas of highest soil concentrations. However, not all compounds detected in all soils were analyzed in the soil gas samples. In order to more fully evaluate indoor air risk, soil contributions were evaluated as follows:

A total of twenty-three (23) discrete chemicals were detected in soils at the subject property (TPH and Total PCBs are not included because they do not represent discrete chemicals).

The User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings (U.S. EPA, Revised Feb. 22, 2004) presents a screening list of chemicals in Table 1. A similar table can be found in Appendix A of the Ohio EPA guidance document titled "Sample Collection & Evaluation of Vapor Intrusion to Indoor Air (May 2010)." From these tables, it was determined that certain chemicals detected in soil gas at the subject property are either not toxic enough or not volatile

enough to contribute risk via the indoor air pathway, and therefore not Chemicals of Concern (CoCs) for this pathway.

Mercury laboratory results for soils at the subject property are for total mercury, and do not provide details regarding its speciation. Mercury can be evaluated using the Johnson & Ettinger model, but only in its elemental state. The model does not account for contaminant attenuation (biodegradation, hydrolysis, sorption, and oxidation/reduction). Mercury is readily adsorbed and oxidized in coal fly ash and slag/cinders, which is the likely the source of detections at the subject property based on the historic presence of coal-fired boilers. In fact, coal burning power plants often use fly ash to scrub gaseous mercury from flu discharges. Because of these characteristics, it is unlikely that mercury in soils at the subject property will volatilize to a degree that causes a potentially unacceptable indoor inhalation risk. As such, mercury was not evaluated in this risk assessment as part of the soil to indoor air pathway.

Methylene chloride was detected in two samples from ATCs 2010 Phase II investigation. They note in their report that these detections likely represent lab artifacts. They removed these detections from further discussion in the report. We concur with that determination and methylene chloride will not be considered in this risk evaluation.

As discussed in Section 1.2.3 of this report, the risk associated with the detections of dibenzofuran is not considered substantial per VAP TGC 30009.09.003 and has not been evaluated as part of this Phase II investigation.

Benzo(b)fluoranthene, chrysene, and naphthalene are listed in the U.S. EPA's *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* as well as the Ohio EPA guidance document *Sample Collection & Evaluation of Vapor Intrusion to Indoor Air* as volatile.

BUSTR's July 2012 *Technical Guidance Manual for Closure, Corrective Action and Petroleum Contaminated Soil Rules* has determined soil action levels for petroleum constituents when evaluating the soil to indoor air pathway (Table 3.9). Using the BUSTR soil to indoor air action levels, a multiple-chemical adjustment (MCA) was performed as described in Section 3.9.4 of

BUSTR's July 2012 Technical Guidance Manual. Table J3 of this report shows the incremental risk for benzo(b)fluoranthene, chrysene, and naphthalene. The incremental risk values from these BUSTR chemicals of concern are included in Table J4 Incremental Risk from Vapor Intrusion, and subsequently included in total risk from all pathways.

The maximum detections found in all depths of site-wide soil at the property for the remaining chemicals were analyzed utilizing the Johnson and Ettinger Soil Advanced Level spreadsheet model for the soil to indoor air pathway, as discussed below.

This sorting is summarized in the following table:

Parameter	Means of Assessing Vapor Intrusion
Acenaphthene	**J&E Modeling**
Acetone	**J&E Modeling**
Anthracene	Not a CoC for Vapor Intrusion
Arsenic	Not a CoC for Vapor Intrusion
Barium	Not a CoC for Vapor Intrusion
Benzo(a)anthracene	Not a CoC for Vapor Intrusion
Benzo(a)pyrene	Not a CoC for Vapor Intrusion
Benzo(b)fluoranthene	**Compared to BUSTR Action Level**
Benzo(g,h,i)perylene	Not a CoC for Vapor Intrusion
Benzo(k)fluoranthene	Not a CoC for Vapor Intrusion
Cadmium	Not a CoC for Vapor Intrusion
Chromium	Not a CoC for Vapor Intrusion
Chrysene	**Compared to BUSTR Action Level**
Dibenz(a,h)anthracene	Not a CoC for Vapor Intrusion
Fluoranthene	Not a CoC for Vapor Intrusion
Fluorene	**J&E Modeling**
Indeno(1,2,3-cd)pyrene	Not a CoC for Vapor Intrusion
Lead	Not a CoC for Vapor Intrusion
Mercury	See Text
Methylene chloride	See Text
Naphthalene	**Compared to BUSTR Action Level**
Phenanthrene	Not a CoC for Vapor Intrusion
Pyrene	**J&E Modeling**

Chemical data from the US EPA IRIS database was used for toxicity. If IRIS data was unavailable for a particular compound, Ohio EPA VAP's CIDARS database was used. If data was not available in CIDARS, then data from the Johnson & Ettinger model spreadsheet defaults was used in this exercise. Model input values used are summarized in Table J2 of Appendix J.

The Johnson & Ettinger model was run using both the slab on grade construction and basement construction scenarios, and the more conservative risk result was added to the incremental risk value for the indoor air pathway as can be seen on Table J4 in Appendix J of this report. Table J4 also notes which environmental media the concentration is modeled from. These values will be used toward the calculation of total risk in Section 13.

Table J4 of this report summarizes the results of the modeling runs for each chemical of concern and the associated incremental risk values for carcinogens and non-carcinogens. Model input and outputs sheets can be found in Appendix J of this report.

11.5.3 Groundwater Contributions

Soil gas collection points were placed in locations representing the highest potential contribution from groundwater contaminants to the indoor air pathway. All compounds detected in groundwater were analyzed in the soil gas samples. Therefore, groundwater contributions were evaluated using directly measured soil gas values.

11.5.4 Total Vapor Intrusion Risk – On Property Receptor

Volatile and semi-volatile chemicals were evaluated in this exercise to determine their contribution to excess risk at the property for modified residential receptors. The maximum incremental risk calculated from this pathway for carcinogens was 3.1E-06, and for non-carcinogens was 3.4E-01. The results from this pathway indicate that the maximum concentration of chemicals of concern in soil at the property do not present an excess risk to the commercial/industrial receptor or the construction/excavation worker in excess of risk goals. However, the incremental risk from this pathway will be added to that from other pathways to determine the total risk posed to both types of receptors.

As demonstrated above, incremental risk standards were met for the on property soil to indoor air pathway for both building scenarios. Therefore, no excess risk above incremental risk standards from the off property soil to indoor air pathway is anticipated to occur as a result of contaminants present at the subject property.

11.5.5 Total Vapor Intrusion Risk - Off-Property Receptor

The groundwater to indoor air pathways are complete for both on and off-property receptors because groundwater may volatize into buildings or travel off site and volatize into buildings which are adjacent to the subject property. Similarly, vapors from on-property soils can migrate off-property.

We can assume that impacts from vapor intrusion would diminish at greater distance from the source of the contamination. Therefore, because vapor risk is acceptable for the on-property receptor, we can infer that it is acceptable for the off-property receptor. The most conservative estimate that we can make is that off-property risk is equal to on-property risk from vapor intrusion. Therefore it is assumed that the maximum incremental risk calculated for carcinogens is 3.1E-06, and for non-carcinogens is 3.4E-01.

It should be noted that vapor risk evaluations have been conducted assuming commercial/industrial exposure. There is presently no identified residential property use in the vicinity of the subject property. Furthermore, the compounds posing the most significant risk at the subject property originated from off-property sources or source areas.

11.6 Groundwater Use

11.6.1 Potable Use

As presented in Section 9.3, shallow groundwater at the subject property is presumed to be Critical Resource groundwater, which is a potable use designation.

Concentrations of trichloroethene were found to exceed Federal MCL/VAP Unrestricted Potable Use Standards (UPUS) in MW-1, MW-3, MW-5, and MW-7.

These values are included in Table H2 of this report, and the maximum detections are included on Table K1 in Appendix K. Because these chemicals exceed the associated Federal MCL/VAP UPUS values, a multiple chemical adjustment for remaining chemicals of concern found in groundwater to show cumulative carcinogenic and non-carcinogenic risk was not necessary.

Groundwater beneath the subject property is not safe for potable use. A remedy or use restriction will be required prior to issuance of a VAP NFA letter. Additional details on groundwater response requirements can be found in Section 12 of this report.

11.6.2 Non-Potable Use

Groundwater at the subject property is not safe for potable use. Because groundwater concentrations exceed the unrestricted potable use standards (UPUS), groundwater is presumed unsafe for non-potable uses as well. A remedy or use restriction will be required prior to issuance of a VAP NFA letter. Furthermore, we recommend that the existing production well be properly abandoned. Additional details on groundwater response requirements can be found in Section 12 of this report.

Due to the presence of chemicals of concern in groundwater, the potential for risk to a construction or excavation worker conducting activities in which they may be exposed to groundwater must be considered. These activities may include utility work, excavations and similar activities. However, depth to groundwater ranges from approximately 35 to 50 feet below ground surface at the subject property and is below the 10 foot construction worker point of compliance. There is no reason to anticipate that construction/excavation workers will encounter ground water.

As demonstrated in Section 11.5 above, risk from volatilization to indoor air is below target risk levels. Additional details regarding groundwater response requirements and remedies can be found in Section 12 of this report.

11.7 Leaching

11.7.1 Soil / Water Partitioning Spreadsheet

The soil to shallow groundwater leaching pathway was evaluated based upon the maximum levels of chemicals of concern detected in soils at the property. This leaching demonstration is summarized in Appendix L.

It must be noted that groundwater at the subject property has already been demonstrated to exceed UPUS due to detections of trichloroethene in MW-1, MW-3, MW-5, and MW-7. As such, this leaching demonstration is not necessary to satisfy Protection of Groundwater Meeting Unrestricted Use Standards (POGWMUPUS) in the shallow groundwater. However, it has been performed to ensure that future leaching will not cause groundwater concentrations to reach levels that would result in groundwater leaving the subject property with additional chemicals at concentrations over UPUS.

The partitioning table spreadsheet evaluates a total of twenty-two (22) chemicals detected in soil at the subject property for their potential to leach to shallow groundwater (Methylene chloride was not included because it is presumed to be a lab artifact.) This spreadsheet is a conservative estimate of the ability of the chemicals of concern to leach into the shallow groundwater at the property based upon partition coefficients, without consideration of separation distance between contaminated soil and groundwater. The spreadsheet calculates an acceptable level of contaminants in the soil which will not lead to a future exceedance of applicable standards in shallow groundwater. This is calculated utilizing the equation included in the Ohio EPA Derived Leach Based Soil Values Appendix Technical Support Document listed below:

$$Cs = Cw \times [Kd + (Ew + Ea\ H')/Pb] \times DAF$$

Where:

Cs = Leach-Based Soil Value (mg/kg)

Cw = Ground Water Quality Standard (mg/L)

Kd = soil/water partitioning coefficient (L/kg)

Ew = Water-filled soil porosity (Lwater/Lsoil)

Ea = Air-filled soil porosity (Lair/Lsoil)

H' = Henry's law constant (unitless) = H(atm-m3/mol) x 41

Pb = Dry soil bulk density (kg/L)

DAF = Dilution Attenuation Factor

Explanations for the default values can be found on the table in Appendix L. A total of thirteen (13) chemicals of concern were shown to have the potential to exceed their associated Federal MCL or VAP UPUS in this stage of the leaching demonstration. These chemicals of concern were further evaluated as described below.

Results of this stage of the leaching demonstration are summarized in Appendix L of this report.

11.7.2 Soil Attenuation Model (SAM)

The twenty-two (22) chemicals of concern detected in soil at the subject property were evaluated using the Soil Attenuation Model (SAM) which takes into account the depth at which the detection of the chemical of concern occurred as well as the depth to groundwater. This evaluation can be found in Appendix L of this report. Maximum levels of chemicals of concern were utilized in this demonstration.

Of the twenty-two (22) chemicals of concern; seven (7) were anticipated to have the potential to exceed their associated Federal MCL or VAP GUPUS in this stage of the leaching demonstration.

Results of this stage of the leaching demonstration are summarized in Appendix L of this report.

11.7.3 SESOIL Modeling

The seven (7) chemicals in the Soil Attenuation Model with potential to leach above VAP UPUS were analyzed using the SESOIL Model to better determine their potential to leach to groundwater and their subsequent contribution to the total risk value at the property.

SESOIL is an acronym for Seasonal Soil compartment model and is a one-dimensional, vertical transport code for the unsaturated soil zone. It is an integrated soil compartment model and is designed to simultaneously model water transport, sediment transport, and pollutant fate. The program was developed for the U.S. EPA's Office of Water and the Office of Toxic Substances (OTS) in 1981 by Arthur D. Little, Inc. (ADL). ADL updated the SESOIL model in 1984 to include a fourth soil layer (the original model included up to three layers) and the soil erosion algorithms. A comprehensive evaluation of SESOIL, performed by Watson and Brown in 1985, uncovered numerous deficiencies in the model and, subsequently, SESOIL was extensively modified to enhance its capabilities. This model was designed to perform "long-term" simulations of chemical transport and transformations in soil.

SESOIL utilizes less soil, chemical, and meteorological values as input than most other similar models. The potential applications of this model include long term leaching studies from waste disposal sites, pesticide and sediment transport on watersheds, studies of hydrologic cycles and water balances of soil compartments, and precalibration runs for other simulation models. The model may also be run to estimate the effect of various site management or design strategies on pollutant distributions and concentrations in the environment.

SESOIL is well recognized and accepted by the scientific community utilizing soil-chemical fate models. It has been extensively validated and shown to work under a number of scenarios. A number of studies have been conducted on this model including sensitivity analysis, comparison with other models, and comparison with field data.

The SESOIL model estimates pollutant concentrations in the soil profile following introduction via direct application and/or interaction with other media, e.g., deposition from air. The model defines the soil compartment as a soil column extending from the ground surface through the unsaturated zone and to the upper level of the saturated soil zone. Processes simulated in SESOIL are categorized in three cycles: the hydrologic cycle, sediment cycle, and pollutant cycle. Each of the three cycles are separate submodules in the SESOIL code. The hydrologic cycle includes rainfall, surface runoff, infiltration, soil water content, evapotranspiration, and ground water runoff. The sediment cycle includes sediment washload as a result of rainstorms,

i.e., soil erosion that results from surface runoff. The pollutant cycle includes convective transport, volatilization, adsorption/desorption, and degradation/decay. A contaminant in SESOIL can partition in up to four phases (dissolved in liquid, adsorbed on soil, diffused air, and pure product).

Data requirements for SESOIL are not extensive, utilizing a minimum of soil and chemical parameters and monthly or seasonal meteorological values as input. Output of the SESOIL model includes pollutant concentrations at various soil depths and pollutant loss from the unsaturated soil zone in terms of surface runoff, percolation to ground water, volatilization, and degradation. SESOIL has the advantages of faster computer run times than more complex unsaturated zone models.

One of the attributes of SESOIL which makes it particularly attractive for a soil leaching study is its compartmental nature. The entire soil column can be broken down into 4 major layers each consisting of 10 sublayers each. This compartmental characteristic allows for user-specified tailoring of the model. Soil and chemical properties which vary with depth in the unsaturated zone can be specified using "layer" ratios in SESOIL. The advantage of having up to 40 sublayers lies in the increased resolution of the pollutant fate module due to smaller compartment size at the expense of increased computer run time. This compartmental nature also allows a user to input a pollutant concentration distribution for the soil column as might be detected.

The SESOIL model can consider all of the following processes: adsorption, volatilization, degradation and decay, convective transport, and metal complexation. SESOIL is a one-dimensional vertical unsaturated code. Any dispersion occurring due to saturation (i.e., perched water) in the unsaturated zone is neglected, leading to conservatism in the model. This conservatism occurs due to the availability of a higher contaminant mass threatening the groundwater in the SESOIL model simulation. Output of the SESOIL model includes pollutant concentrations at various soil depths and pollutant loss from the unsaturated soil zone in terms of percolation to groundwater, volatilization, and degradation. This information can be used to obtain contaminant concentrations in the vadose soil which will be protective of underlying groundwater at or below the established groundwater quality standard.

The attributes of SESOIL which made it particularly attractive and suitable to evaluate the potential for leaching at the property are reiterated below:

- SESOIL has been extensively validated and shown to work under a number of scenarios. It has also been used for similar applications in other parts of the country and is capable of providing the information required for this study.

- SESOIL has the advantage of fewer input requirements and faster run times than more complex unsaturated zone models, while still maintaining considerable resolution of the pollutant front in both time and space.

- Documentation of SESOIL is readily available including numerous publications on the subject and a user's guide recently developed by Hetrick and Scott.

- The model can be divided into as few as 2 and as many as 4 layers. This compartmental nature of the model allows for user-specified tailoring to suit a particular site.

- SESOIL is a one-dimensional soil compartment model that considers adsorption, volatilization, degradation/decay, convective transport, and metal complexation processes. At the same time, the input data requirements are not extensive, making it easier to use than more complex models.

SEVIEW Version 6.3.6 was used to evaluate each of the seven (7) chemicals of concern which exhibited the potential to leach at levels exceeding Federal MCL/VAP UPUS, or to contribute to excess carcinogenic and non-carcinogenic risk at the subject property.

Groundwater was found to average approximately 40 feet below ground surface during Phase II Data Collection Activities. The model was divided into four ten foot layers with five sub-layers each. These sub-layers coincide with the two-foot sampling intervals. The input values for the

SESOIL leaching demonstration for the upper saturated zone are included in Appendix L of this report. The highest concentrations detected at the subject property in each depth interval were entered in the model, regardless of whether they were detected across the site, in order to lend additional conservatism to the model.

The results of these SESOIL modeling runs are summarized in Table 9 of this report. Other supporting documents can be found in Appendix L of this report. The maximum concentration of each chemical of concern detected at the subject property was used for evaluation in the SESOIL modeling runs. Of the seven (7) chemicals of concern evaluated, none were shown to have the potential to leach to shallow groundwater within 100 years at a reasonably measureable amount. None of these compounds are anticipated to leach at concentrations exceeding of Federal MCLs/VAP UPUS. Trichloroethene currently exists in groundwater at MW-1, MW-3, MW-5 and MW-7 at levels that exceed the associated Federal MCL/VAP UPUS, so there are no changes to groundwater response requirements summarized earlier in this report.

11.8 Contaminant Transport in Groundwater

No groundwater transport modeling was performed for this property because contaminants are already above VAP UPUS standards on property, and no additional contaminants are expected to leach to groundwater at concentrations above VAP UPUS as demonstrated in Section 11.7. Additional details regarding groundwater response requirements can be found in Section 12 of this report.

12.0 Remedial Response

12.1 Groundwater Response Requirements

For the purposes of this investigation, shallow groundwater at the subject property has been classified as Critical Resource Groundwater without an Urban Setting Designation (USD). Per OAC 3745-300-10(E)(5)(b) where groundwater contamination is attributable entirely to sources or source areas that were or are located off the subject property, response requirements for Critical Resource Groundwater without an Urban Setting Designation are described as follows. The means of achieving response requirements follows each citation.

Response Requirement:

OAC 3745-300-10(E)(5)(b): When ground water contamination is attributable entirely to sources or source areas that were or are located off the property, as determined in accordance with rule 3745-300-07 of the Administrative Code, the following minimum requirements in paragraphs (E)(5)(b)(i) to (E)(5)(b)(iii) of this rule must be met:

> *(i) Implement institutional controls or engineering controls that reliably prevent human exposure on the property to ground water with concentrations of chemical(s) of concern in excess of unrestricted potable use standards or restore the ground water underlying the property to those unrestricted potable use standards*

Means of Compliance

There is presently no groundwater use at the subject property. The former industrial production well must be properly abandoned. To ensure that groundwater use will not take place in the future, a deed restriction must be recorded for the subject property to prevent installation of wells or other future use of groundwater at the subject property for potable or non-potable purposes, with the exception of groundwater sampling for environmental monitoring. This will assure that the assumptions made in this risk evaluation with regards to the use of groundwater at the subject property will continue to

be accurate in perpetuity. Alternatively, ground water remediation can be performed to remove contaminants, although this option is generally more costly and would require coordination with neighboring property owners.

Response Requirement:

(ii) Implement remedial activities for sources or source areas of contamination on the property to prevent leaching of chemical(s) of concern from those sources or source areas that is reasonably anticipated will result in unrestricted potable use standards being exceeded in ground water emanating from the property, as determined in accordance with rules 3745-300-07, 3745-300-08, and 3745-300-09 of the Administrative Code;

Means of Compliance:

Section 11.7 of this report describes the evaluation of the potential for on-property sources of chemicals of concern to leach to shallow groundwater. None of these chemicals of concern is anticipated to leach to groundwater at concentrations exceeding VAP UPUS.

Response Requirement:

(iii) The remedy or remedial activities must achieve compliance with applicable standards established under rule 3745-300-09 of the Administrative Code to:

(a) Ensure protection of humans on and off the property from exposures to chemical(s) of concern in ground water not related to potable use of the ground water. For the purposes of this rule, exposures to chemical(s) of concern in ground water not related to potable use of ground water include exposures resulting from non-consumptive uses and exposures resulting from inadvertent contact with contaminated ground water. Examples of such exposures include, but are not limited to: exposures to industrial process water; water used for lawn

watering; water used for irrigation; shallow ground water contaminated with volatile organic compounds that volatize into the breathing space of an inhabited structure; and shallow ground water seeping into sub-surface utility tunnels or sewers;

Means of Compliance

Industrial process wells at the subject property should be abandoned, and a deed restriction should be recorded for the subject property to prevent the installation of wells or other future use of groundwater at the subject property for potable or non-potable purposes, with the exception of groundwater sampling for environmental monitoring.

As demonstrated in Section 11.5, risk from volatilization to indoor air is below target risk levels.

As demonstrated in Section 11.6, there is no reason to anticipate construction/excavation workers or off-property receptors will be exposed to contaminated groundwater.

Response Requirement:

(b) Ensure protection of important ecological resources on the property.

Means of Compliance

There are no important ecological resources on the property. The nearest ecological resource is the Ohio River, approximately 1,700 feet southwest of the subject property at the nearest point. Groundwater flow is toward the southeast. The Ohio River is approximately 4,000 feet from the subject property in this direction. There is no source or

source area located on the subject property which could impact these resources. For additional details on groundwater flow, please see Section 9.2.

12.1.1 POGWMUPUS

Ohio VAP Regulations require Protection of Ground Water Meeting Unrestricted Potable Use Standards (POGWMUPUS). Specifically, OAC 3745-300-10(D)(1) states that "When any ground water in a saturated zone underlying the property complies with the unrestricted potable use standards as determined by a phase II property assessment conducted in accordance with rule 3445-300-07 of the Administrative Code, the remedial activities undertaken in connection with a voluntary action at or upon the property must ensure that migration of hazardous substances or petroleum from source or source areas on the property will not result in unrestricted potable use standards being exceeded anywhere within the ground water zone". Because of the presence of contaminants above VAP UPUS, protection of shallow groundwater (Zone 1) is not applicable. Furthermore, as demonstrated in Section 11.7 above, there is no anticipation that contaminants in soil at the subject property will leach to groundwater. As such, no groundwater zones beneath the property are anticipated to exceed unrestricted potable use standards as a result of sources or source areas on the subject property.

Although groundwater contaminants are present at the subject property, an evaluation of their potential to migrate to deeper groundwater zones is not necessary because they originated from off-property sources or source areas.

OAC 3745-300-07(F)(2) requires that for each groundwater zone underlying the property, the volunteer must demonstrate whether the groundwater in the zone meets or exceeds unrestricted potable use standards either by sampling (OAC 3745-300-07(F)(2)(a)) or through a weight-of-evidence justification that sampling is not required in accordance with OAC 3745-300-07(F)(2)(b).

Even if contaminants in Zone 1 (which originated off-property) would migrate to Zone 2, there would be no change in response requirements at the subject property. Groundwater use should be restricted at the subject property.

POGWMUPUS requirements are therefore met for the subject property.

12.1.2 Urban Setting Designation

No Urban Setting Designation is in place in this location.

12.1.3 Ecologic Receptors

There are no ecologic receptors at the subject property. The nearest ecologic receptor is the Ohio River, approximately 1,700 feet southwest of the subject property at the nearest point. At the subject property, groundwater flows toward the southeast, toward the river but not by the shortest path. There are no sources or source areas at the subject property which could impact this resource.

12.2 Institutional / Engineering Controls

No institutional or engineering controls are presently in place at the subject property.

12.3 Active Remedies

No active remedies of environmental media have been conducted at the subject property.

13.0 Total Risk from All Pathways

The incremental risk from all pathways analyzed was totaled for each receptor in order to calculate a comprehensive risk for carcinogens and non-carcinogens. This exercise has been included as Table 2 of this report, and is also summarized below.

Commercial / Industrial Receptor		
	Carcinogenic Risk	Non-Carcinogenic Risk
Soil Direct Contact	Fail	Fail
Groundwater	Fail	Fail
Indoor Air	3.1E-06	3.4E-01
Totals:	**Fail**	**Fail**

Construction Worker		
	Carcinogenic Risk	Non-Carcinogenic Risk
Soil Direct Contact	Fail	Fail
Totals:	**Fail**	**Fail**

Pathways not shown above are incomplete. As can be seen in the table above, the subject property exceeds the carcinogenic risk goal of 1E-05 and the hazard quotient of 1 for the commercial/industrial receptors and construction workers.

14.0 Conclusions

This Phase II Property Assessment was conducted in accordance with the requirements and applicable regulations of the Voluntary Action Program. Analysis and interpretation of data gathered as part of this Phase II Property Assessment has led to the following conclusions:

- The contribution of concentrations of chemicals of concern to excess risk for receptor populations has been quantified for each applicable pathway at the subject property. The subject property exceeds risk goals for soil direct contact for the commercial/industrial and construction worker receptor scenarios.
- Groundwater at the subject property exceeds VAP Unrestricted Potable Use Standards due to detections of trichloroethene originating off-site.
- Protection of Groundwater Meeting Unrestricted Potable Use Standards is demonstrated at the subject property as shown in Section 12.1.1.
- We recommend that the existing production well be properly abandoned and a ground water use restriction be implemented at the subject property.
- Building materials have been found to be contaminated with hazardous substances including asbestos and PCBs.
- Building debris which was used to fill the cellars of Buildings 2, 3, 8, and 9 is contaminated with asbestos.

15.0 Statement of Limitations

The subject property has been examined based on best professional judgment and current property assessment evaluation methods and risk assessment methods. These methods include requirements of the Ohio's Voluntary Action Program (VAP), ASTM Standards, and other professional site assessment guidelines.

This Phase II Property Assessment has been conducted to prove compliance with applicable standards promulgated under the Ohio EPA Voluntary Action Program. The intent of this assessment was to identify and quantify risk to human health and the environment in association with contaminants in environmental media (soil, groundwater, sediment, etc.). While the extent of this investigation is considered appropriate for these purposes, additional contamination may be present that is not explicitly identified. Furthermore, risk from building materials and commercial/industrial operations not impacting environmental media is outside the scope of this VAP and the present report.

This report was prepared using information from previous Phase I, and Phase II reports prepared by ATC Associates, LLC. This report is subject to all limitations found in therein. We cannot accept responsibility for false or misleading information provided to us by others.

16.0 References

Ohio Division of Geological Survey, 2003., Shaded Bedrock Topography Map of Ohio; Ohio Department of Natural Resources, Division of Geological Survey; BG-3, map layout scale 1:500,000.

Walker, 1986. Groundwater Resources of Hamilton County; Ohio Department of Natural Resources, Division of Water;

16.0 References

Ohio Division of Geological Survey, 2003., Shaded Bedrock Topography Map of Ohio; Ohio Department of Natural Resources, Division of Geological Survey; BG-3, map layout scale 1:500,000.

Walker, 1986. Groundwater Resources of Hamilton County; Ohio Department of Natural Resources, Division of Water;

Tables

Table 1: Summary of Identified Areas

Former Hudepohl Brewery – Cincinnati, Ohio

Identified Area Number (or other designation) and Descriptive Name		Description of Releases, Sources and/or Source Areas	Potential and/or Suspected COCs from Phase I	Environmental Media Sampled	COCs Dectected during Phase II	Was the identified area from the Phase I eliminated or otherwise redesignated during the Phase II?	
IA-A	Historic Industrial Use	Historic site-wide operations may have caused impact	VOC, SVOC, TPH, Metals, PCBs	Soil, Groundwater	VOC, SVOC, TPH, Metals, PCBs	☐Yes ☑No	
IA-B	Former Underground Storage Tank	Uranium extrusion may have caused impact	VOCs, PAHs, TPH-DRO	Soil, Groundwater	Metals (in samples shared with IA-A)	☐Yes ☑No	
Off-Property	Off-Property: New Troy Laundry	Manufacturing Operations	VOCs	Groundwater, Sub-Slab Soil Gas	VOCs	☐Yes ☑No	

TABLE 2

TOTAL RISK FROM ALL PATHWAYS

Former Hudepohl Brewery
Cincinnati, Ohio

Commercial / Industrial Receptor		
	Carcinogenic Risk	Non-Carcinogenic Risk
Soil Direct Contact	Fail	Fail
Groundwater	Fail	Fail
Indoor Air	3.10E-06	0.340
Totals:	**Fail**	**Fail**

Construction Worker Receptor		
	Carcinogenic Risk	Non-Carcinogenic Risk
Soil Direct Contact	Fail	Fail
Totals:	**Fail**	**Fail**

Prepared by
PANDEY Environmental, LLC
3/11/2013

Figures

Hudepohl East Property
Hudepohl West Property
IA-A: Historic Industrial Use
IA-B: Former UST Location
Off-Property: Former New Troy Laundry

Figure 1
Identified Areas
Former Hudepohl Brewery
801 West 6th Street & 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N

0 100 200 300 Feet

- Hudepohl East Property
- Hudepohl West Property
- IA-A: Historic Industrial Use
- IA-B: Former UST Location
- Off-Property: Former New Troy Laundry

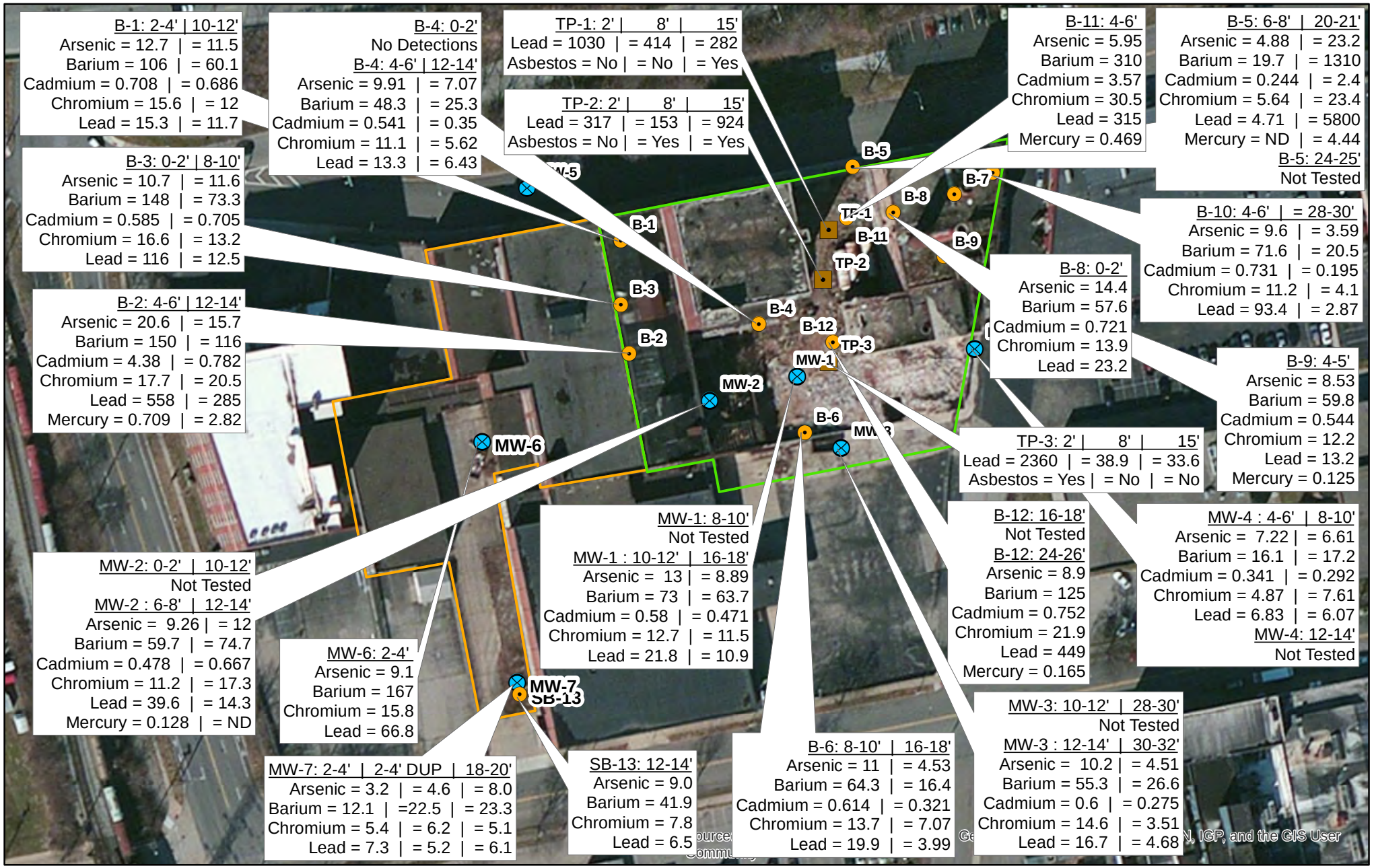
- Soil Bore
- Monitoring Well
- Soil Vapor Point
- Test Pit

Figure 2
Sample Locations
Former Hudepohl Brewery
801 West 6th Street & 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N

0 100 200 300 Feet



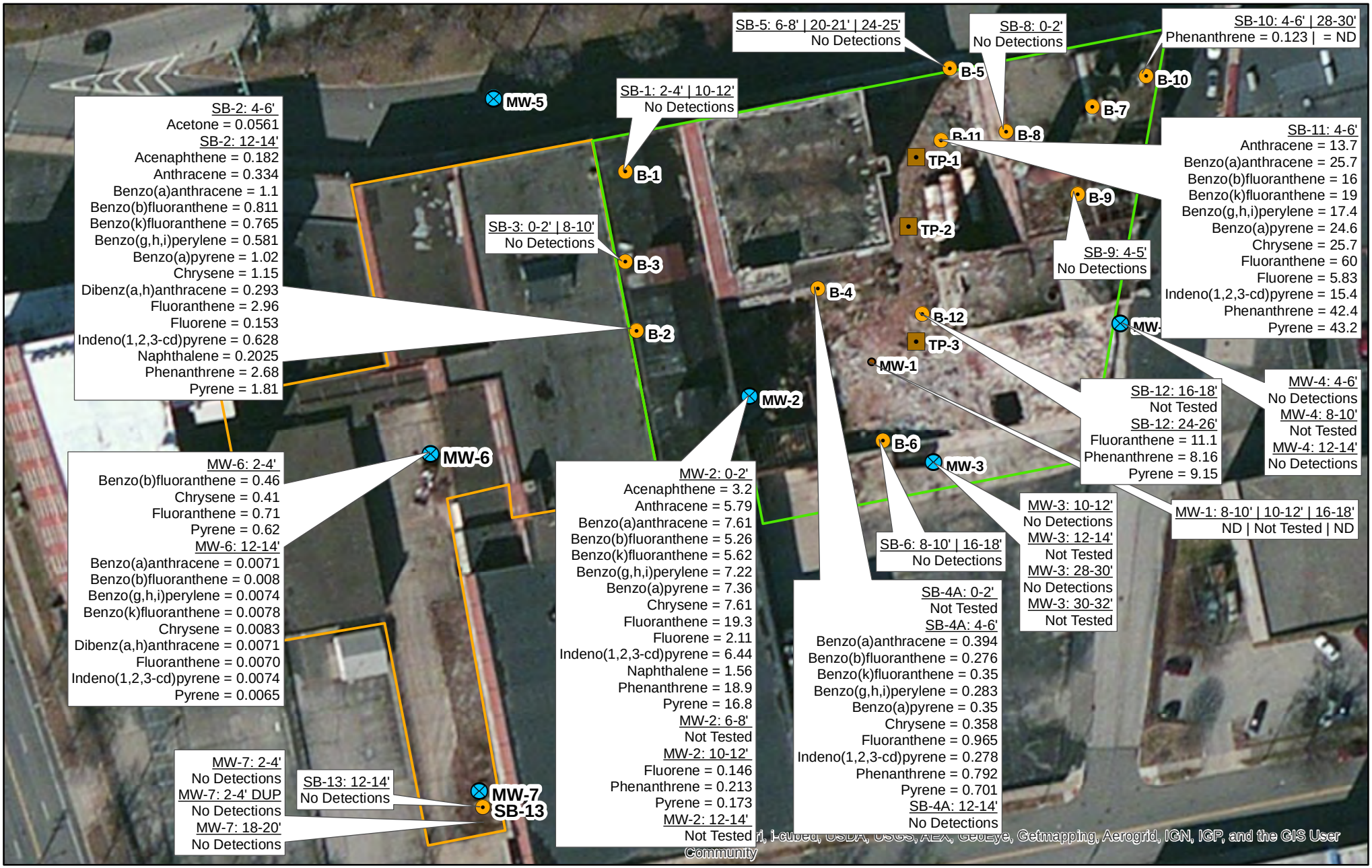
Hudepohl East Property
Hudepohl West Property
Soil Bore
Monitoring Well
Test Pit

Note: All detections listed in mg/kg (ppm)
ND = Not Detected
Asbestos samples in test pits were not quantified, They are listed as "yes" if ACM was found in sample.

Figure 3A
Soil Tag Map - Metals / Asbestos
Former Hudepohl Brewery
801 West 6th Street / 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N
0 100 200 300 400 Feet



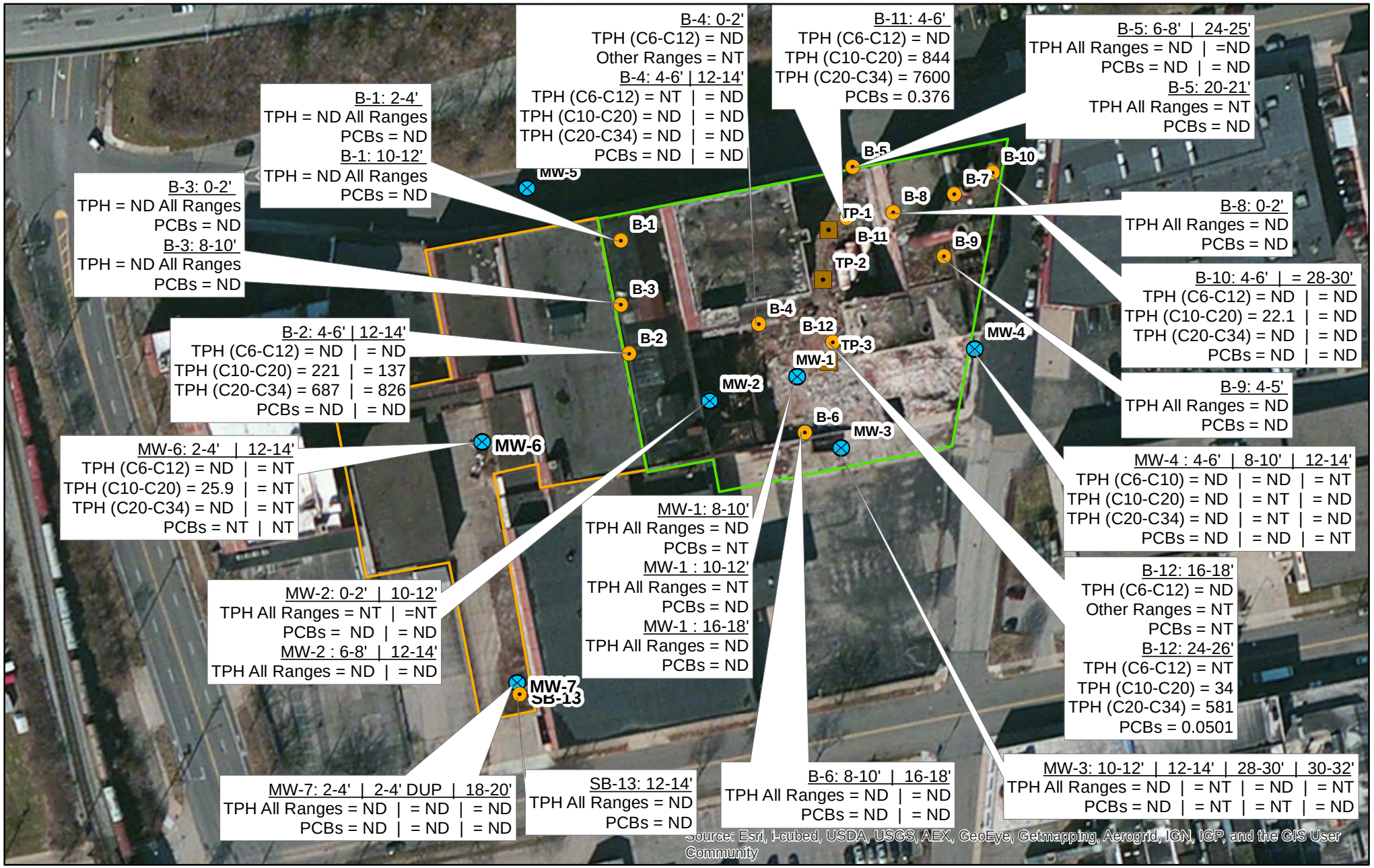
Hudepohl East Property
Hudepohl West Property
Soil Bore
Monitoring Well
Test Pit

Note: All detections listed in mg/kg (ppm).
ND = No Detections

Figure 3B
Soil Analytical Results - SVOCs and VOCs
Former Hudepohl Brewery
801 West 6th Street / 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N
0 100 200 300 Feet



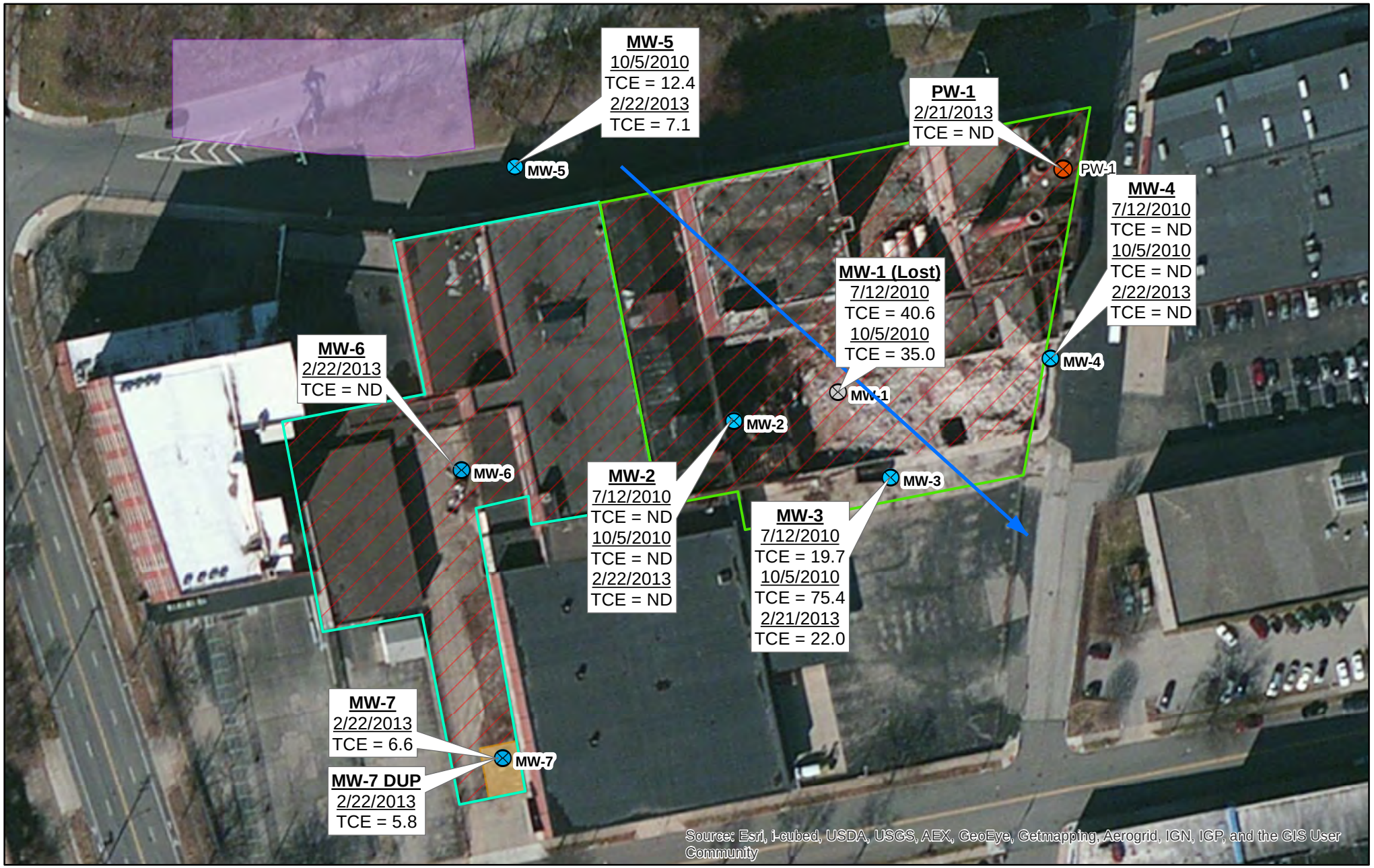
Hudepohl East Property
Hudepohl West Property
Soil Bore
Monitoring Well
Test Pit

Note: All detections listed in mg/kg (ppm)
ND = Not Detected
NT = Not Tested

Figure 3C
Soil Tag Map - TPH / PCBs
Former Hudepohl Brewery
801 West 6th Street / 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N
0 100 200 300 400 Feet



Hudepohl East Property
Hudepohl West Property
IA-A: Historic Industrial Use
IA-B: Former UST Location
Off-Property: Former New Troy Laundry

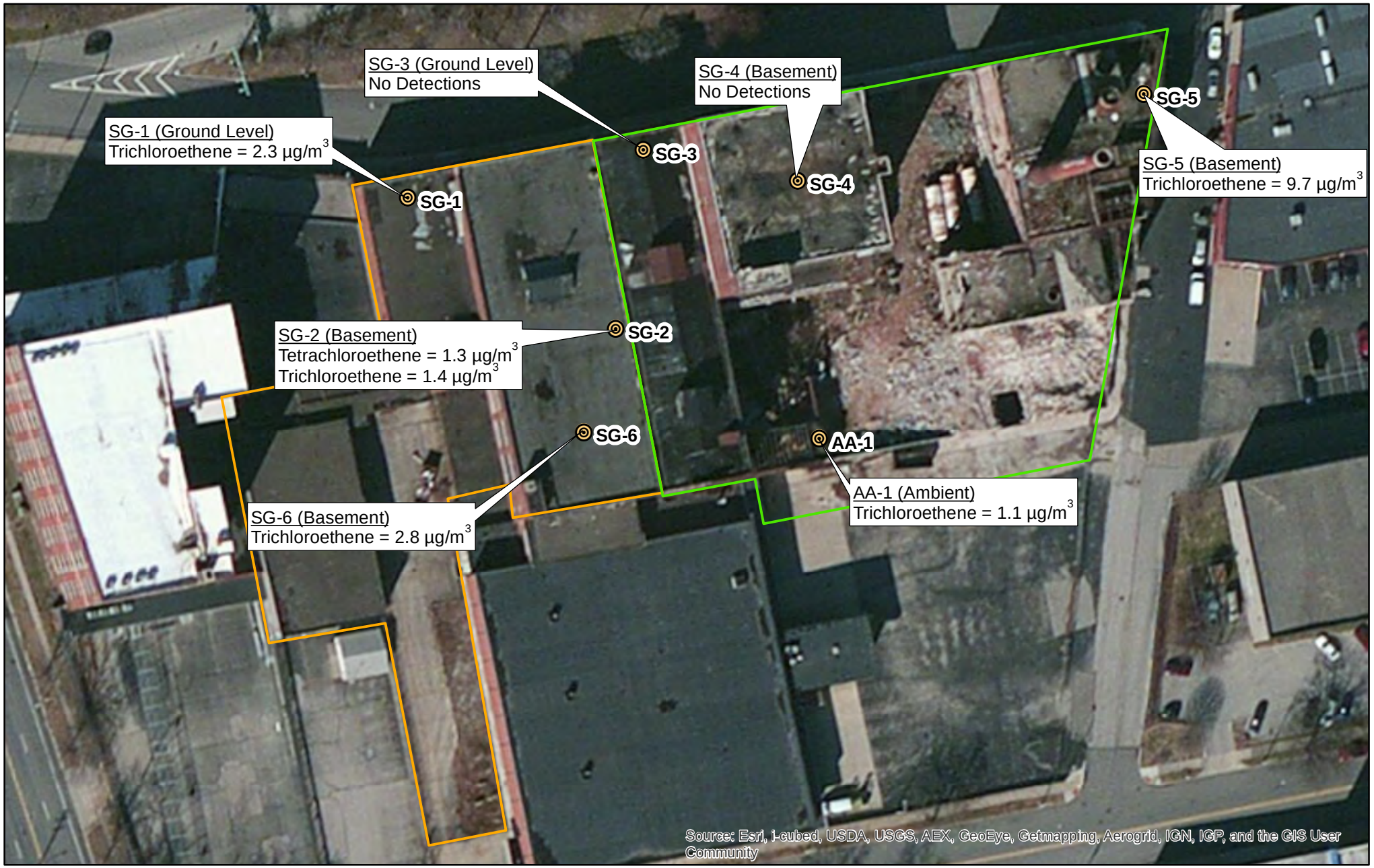
Monitoring Well
Monitoring Well (Lost)
Production Well
Estimated Groundwater Flow Direction

Note: No other VOCs or SVOCs detected.
All detections listed in µg/L (ppb)
ND = Not Detected

Figure 4
Groundwater Analytical Results
Former Hudepohl Brewery
801 West 6th Street & 840 W 5th Street
Cincinnati, Ohio 41203

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N
0 100 200 300 Feet



Hudepohl East Property
Hudepohl West Property
Vapor Collection Point

Note: All detections listed in µg/m3

Figure 5 -
Soil Gas Analytical Data
Former Hudepohl Brewery
801 West 6th Street / 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N

0 100 200 300 Feet

Hudepohl East Property

Hudepohl West Property

466.3' Measured Static Groundwater Elevation

466.4' Estimated Groundwater Elevation Contour

Estimated Groundwater Flow Direction

Monitoring Well

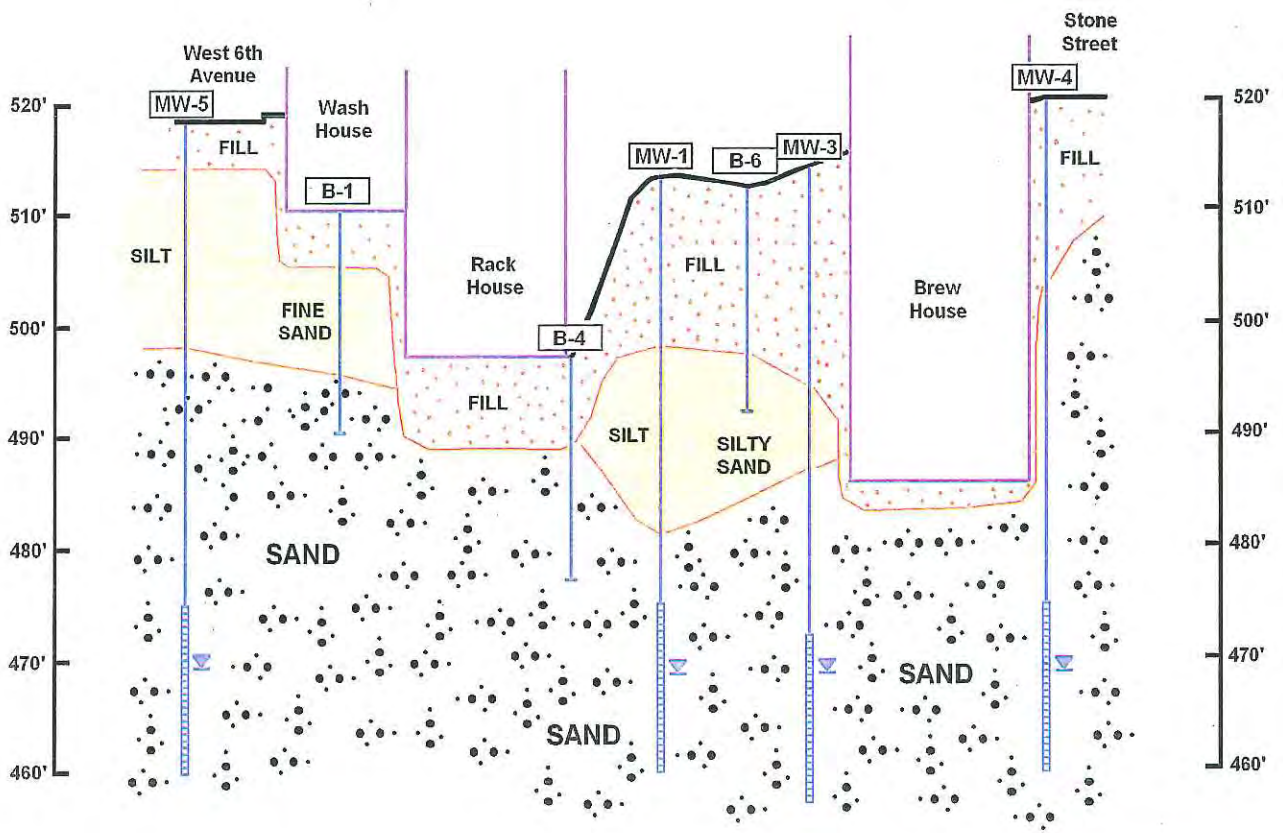
Measurements taken 2/22/2013
elevation based on top of casing values reported in ATC's 2009 Phase II Report

Figure 6 -
Potentiometric Surface Map
Former Hudepohl Brewery
801 West 6th Street / 840 West 5th Street
Cincinnati, Ohio 41203

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N

0 100 200 300 Feet



Vertical exaggeration = 6.5 times

PROPERTY GEOLOGIC CROSS-SECTION
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	10/22/10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

Figure 7

VATC

Hudepohl East Boundary
Hudepohl West Boundary

Figure 8
USGS Topographic Map
Former Hudepohl Brewery (East)
801 West 6th Street
Cincinnati, Ohio 41203

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N

0 500 1,000 1,500 2,000 Feet

Subject Property Boundary

Hudepohl West Property

Figure 9
Building Number Summary
Former Hudepohl Brewery (East)
801 West 6th Street
Cincinnati, Ohio 41203

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St.; Suite 300
Columbus, OH 43206
Ph: (614) 444-8078
www.pandeyenvironmental.com

N

0 100 200 300 Feet

Appendix A

Legal Description – County Auditor Information

Dusty Rhodes, Hamilton County Auditor *generated on 2/4/2013 9:11:18 AM (EST)*

Property Report

Parcel ID	Address	Index Order	Card(s)
136-0004-0243-00	801 W SIXTH ST	Parcel ID	2

Tax Dist
001 CINTI CORP-CINTI CSD-001110

School Dist
1 CINCINNATI CSD

Land Use
399 Other industrial structures

Owner Information
Call 946-4015 if Incorrect
HUDEPOHL SQUARE LLC
261 W MCMILLAM ST
CINCINNATI, OH 45219 USA

Mail Information
Call 946-4800 if Incorrect
HUDEPOHL SQUARE LLC
261 W MCMILLAN ST
CINCINNATI, OH 45219 USA

Property Information
SS SIXTH ST 1.6140 AC
LOTS 1 THRU 5 HERMAN
LECKMAN BREWING CO SUB

TIF ABATEMENT

Board of Revision	No	**Date**	10/29/2004
Rental Registration	No	**Conveyance #**	22930
Homestead	No	**Deed Number**	36162
2.5% / Stadium Credit	No	**Mkt Land Value**	49,400
New Construction	No	**Cauv Value**	0
Foreclosure	No	**Mkt Impr Value**	62,590
Other Assessments	Yes	**Mkt Total Value**	111,990
Front Ft.	352.00	**Total TIF Value**	0
# of Parcels	1	**Abated Value**	0
Deed Type	17 WD-Warranty Deed	**Exempt Value**	0
Sale Amount	$172,000	**Acreage**	1.611
		Taxes Paid	$0.00

Note
1) 11-19-04 30 YEAR TIF ABATEMENT BEGAN 2003 THRU 2032

1) 3-19-98 DBA FOR 1998 - BLDG #6 IS TOTALLY
GONE, BLDGS 3,4 & 5 ARE PARTIALLY GUTTED

Levy Info

Proposed Levies	Mills	Current Annual Tax	Estimated Annual Tax	Note
No Proposed Levies Found				

Levies Passed-2012 Pay 2013 Tax Bill	Mills	Current Annual Tax	Estimated Annual Tax	Note
Cincinnati CSD - Emergency ($51,500,000)	8.55	$348.49	$335.16	C, D
Hamilton County - Mental Health	2.99	$86.39	$86.39	C
Hamilton County - Senior Services	1.29	$46.82	$46.82	C

Improvements

Improvement	Measurements	Year Built
No Records Found		

Commercial

Use Code	399 Other industrial structures	**Year Built**	1860
Net Leaseable		**Gross Area**	38,715.00
No. of Units			

Commercial History

Section	Occupancy	Finished Square Ft.	Story Height	Stories
1	326 Storage	12,905.00	24.00	1
2	326 Storage	12,905.00	24.00	1
3	326 Storage	12,905.00	24.00	1

Transfer

Deed Book	Page	Sale Price	Sale Date	Current Owner
		$172,000	10/29/2004	HUDEPOHL SQUARE LLC
		$0	3/21/2003	KEENE GROUP INC THE
		$0	3/21/2003	OSBOURNE PATRICIA A
		$0	2/22/2002	CUSHMAN HERMAN WESLEY
		$0	7/1/1989	OSBORNE PATRICIA A
		$0	1/1/1987	SCHOTT MICHAEL B TR
		$0	1/1/1987	HUDEPOHL BREWING CO

Value History

Year	Date	Land	Improvements	Total	Assessment Reason
2012	2012/03/16	$49,400	$62,590	$111,990	Value of Bldgs, Destroyed or Demolished
2011	2011/09/05	$49,400	$73,090	$122,490	Reappraisal, Update or Annual Equalization
2008	2008/09/27	$116,060	$10,400	$126,460	Reappraisal, Update or Annual Equalization
2006	2006/08/18	$111,600	$10,000	$121,600	Value of Bldgs, Destroyed or Demolished
2005	2006/08/18	$111,600	$22,600	$134,200	Value of Bldgs, Destroyed or Demolished
2005	2005/09/20	$111,600	$60,400	$172,000	Reappraisal, Update or Annual Equalization
2002	2002/10/08	$109,100	$86,300	$195,400	Reappraisal, Update or Annual Equalization
1999	1999/11/06	$104,400	$82,600	$187,000	Reappraisal, Update or Annual Equalization
1998	1998/03/19	$143,400	$179,800	$323,200	Value of Bldgs, Destroyed or Demolished
1996	1996/01/01	$143,400	$304,800	$448,200	Miscellaneous

Payments

Current Year Tax Detail

	Prior Delq	Adj-Del	1st Half Taxes	Adj-1st Half	2nd Half Taxes	Adj-2nd Half
ReCharge	$1,815.91	$0.00	$2,023.70	$0.00	$2,023.70	$0.00
Credit			$331.46		$331.46	$0.00
Sub Total	$1,815.91		$1,692.24		$1,692.24	
Rollback			$0.00	$0.00	$0.00	$0.00
Reduct			$0.00		$0.00	$0.00
Homestead			$0.00		$0.00	$0.00
Sales CR			$0.00		$0.00	$0.00
Sub Total	$1,815.91		$1,692.24		$1,692.24	
Int / Pen	$206.56	$0.00	$0.00	$0.00	$0.00	$0.00
Re Paid	$0.00		$0.00		$0.00	
Re Owed	$2,022.47		$1,692.24		$1,692.24	
Sa Paid	$0.00		$0.00		$0.00	
Sa Owed	$0.00		$65.26		$0.00	
Total Owed	$2,022.47		$1,757.50		$1,692.24	
Total Paid	$0.00		$0.00		$0.00	$0.00
Total Owed	$2,022.47	$3,779.97	$5,472.21			

-						
Current Delq	$0.00					
Current Paid	$0.00					
Current Owed	$0.00					

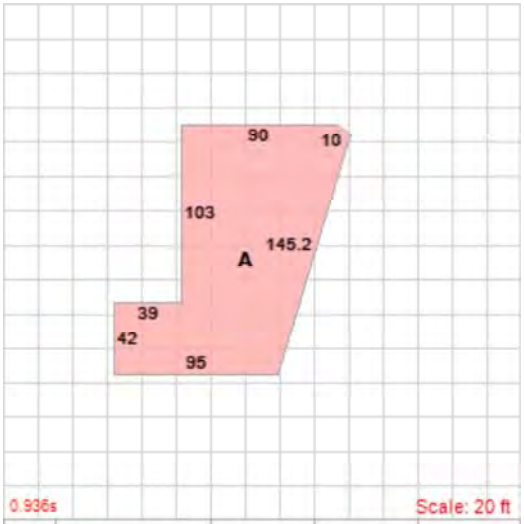
Detail of Special Assessment

	Prior Delq	Adj-Del	1st Half Taxes	Adj-1st Half	2nd Half Taxes	Adj-2nd Half
34-999 #34-999 URBAN FORESTRY CITY						
Charge	$0.00	$0.00	$65.26	$0.00	$0.00	$0.00
Int / Pen	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
paid	$0.00		$0.00		$0.00	
owed	$0.00		$65.26		$0.00	

Payment Information For Current And Prior Year

Date	Half	Mach	Seq	TR	Proj	Prior	1st Half	2nd Half	Surplus
01/31/12	1-11	00001				$0.00	$1,881.17	$0.00	$0.00
06/20/11	2-10	00001				$0.00	$2,016.25	$1,767.69	$0.00

Image



ID	Label	Area	Perimeter	Dimension
A	1 s Br / 2 s Br / Slab	12905	524	N/A

Dusty Rhodes, Hamilton County Auditor *generated on 1/23/2013 8:50:38 AM (EST)*

Property Report

Parcel ID	Address	Index Order	Card(s)
136-0004-0242-00	840 W FIFTH ST	Parcel ID	1

Tax Dist
001 CINTI CORP-CINTI CSD-001110

School Dist
1 CINCINNATI CSD

Land Use
310 Food and drink proc plants and storage

Owner Information
Call 946-4015 if Incorrect
WEST FIFTH LOFTS LLC
1053 ST GREGORY ST
CINCINNATI, OH 45202 USA

Mail Information
Call 946-4800 if Incorrect
WEST FIFTH LOFTS LLC
1281 COURT ST
CLEARWATER, FL 33756 USA

Property Information
SS SIXTH ST 1.0705 AC
PT LOTS 1 THRU 5
HATHAWAY SUB-LAND ADJ

Board of Revision	No	**Date**	7/1/2004
Rental Registration	No	**Conveyance #**	14506
Homestead	No	**Deed Number**	23371
2.5% / Stadium Credit	No	**Mkt Land Value**	87,080
New Construction	No	**Cauv Value**	0
Foreclosure	No	**Mkt Impr Value**	49,710
Other Assessments	Yes	**Mkt Total Value**	136,790
Front Ft.	132.00	**Total TIF Value**	104,390
# of Parcels	1	**Abated Value**	0
Deed Type	17 WD-Warranty Deed	**Exempt Value**	0
Sale Amount	$125,000	**Acreage**	1.069
		Taxes Paid	$0.00

Note
1) 11-19-04 30 YEAR TIF ABATEMENT BEGAN 2003 THRU 2032

Levy Info

Proposed Levies	Mills	Current Annual Tax	Estimated Annual Tax	Note

No Proposed Levies Found

Levies Passed-2012 Pay 2013 Tax Bill	Mills	Current Annual Tax	Estimated Annual Tax	Note
Cincinnati CSD - Emergency ($51,500,000)	8.55	$425.65	$409.37	C, D
Hamilton County - Mental Health	2.99	$105.52	$105.52	C
Hamilton County - Senior Services	1.29	$57.19	$57.19	C

Improvements

Improvement	Measurements	Year Built
632 Superstructure	7130 SQUARE FEET	
632 Superstructure	2052 SQUARE FEET	
632 Superstructure	1620 SQUARE FEET	
632 Superstructure	600 SQUARE FEET	
632 Superstructure	48 SQUARE FEET	

Commercial

Use Code 310 Food and drink proc plants and storage
Year Built 1940
Net Leaseable
Gross Area 43,980.00
No. of Units

Commercial History

Section	Occupancy	Finished Square Ft.	Story Height	Stories
1	406 Storage Warehouse	21,990.00	17.00	1
2	326 Storage	21,990.00	17.00	1

Transfer

Deed Book	Page	Sale Price	Sale Date	Current Owner
		$125,000	7/1/2004	WEST FIFTH LOFTS LLC
		$0	5/23/1996	POHL REALTY LTD LIABILITY CO
		$0	6/11/1993	POHL ROBERT L
		$0	6/11/1993	MACKEY CAROLYN P
		$0	6/11/1993	POHL JAMES W
		$0	6/11/1993	FREY JUDITH P
		$0	1/1/1987	SCHOTT MICHAEL B TR
		$0	1/1/1987	POHL ROBERT L ET AL

Value History

Year	Date	Land	Improvements	Total	Assessment Reason
2011	2011/09/05	$87,080	$49,710	$136,790	Reappraisal, Update or Annual Equalization
2008	2008/09/27	$82,370	$47,630	$130,000	Reappraisal, Update or Annual Equalization
2008	2008/08/26	$79,200	$45,800	$125,000	Changes to/from Exempt Property
2005	2005/09/20	$79,200	$45,800	$125,000	Reappraisal, Update or Annual Equalization
2002	2002/10/08	$127,900	$192,500	$320,400	Reappraisal, Update or Annual Equalization
1999	1999/11/06	$122,400	$184,200	$306,600	Reappraisal, Update or Annual Equalization
1996	1996/01/01	$102,000	$202,900	$304,900	Miscellaneous

Payments

Current Year Tax Detail

	Prior Delq	Adj-Del	1st Half Taxes	Adj-1st Half	2nd Half Taxes	Adj-2nd Half
ReCharge	$205.26	$0.00	$2,471.81	$0.00	$2,471.81	$0.00
Credit			$404.85		$404.85	$0.00
Sub Total	$205.26		$2,066.96		$2,066.96	
Rollback			$0.00	$0.00	$0.00	$0.00
Reduct			$0.00		$0.00	$0.00
Homestead			$0.00		$0.00	$0.00
Sales CR			$0.00		$0.00	$0.00
Sub Total	$205.26		$2,066.96		$2,066.96	
Int / Pen	$23.36	$0.00	$0.00	$0.00	$0.00	$0.00
Re Paid	$0.00		$0.00		$0.00	
Re Owed	$228.62		$2,066.96		$2,066.96	
Sa Paid	$0.00		$0.00		$0.00	
Sa Owed	$0.00		$24.48		$0.00	
Total Owed	$228.62		$2,091.44		$2,066.96	
Total Paid	$0.00		$0.00		$0.00	$0.00
Total Owed	$228.62	$2,320.06	$4,387.02			
---------- -						
Current Delq	$0.00					
Current Paid	$0.00					
Current Owed	$0.00					

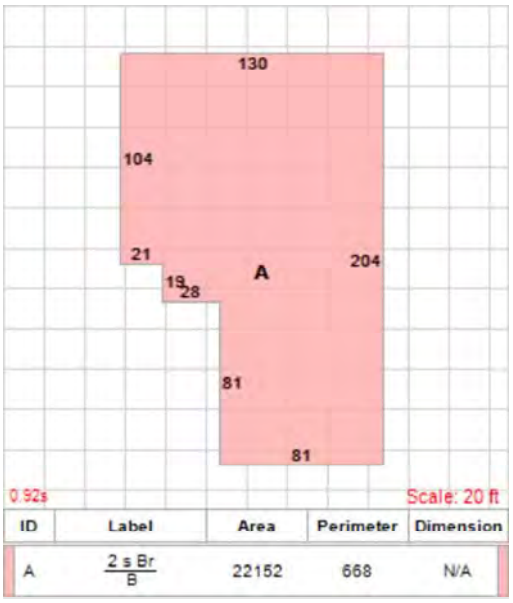
Detail of Special Assessment

	Prior Delq	Adj-Del	1st Half Taxes	Adj-1st Half	2nd Half Taxes	Adj-2nd Half
	34-999	#34-999 URBAN FORESTRY CITY				
Charge	$0.00	$0.00	$24.48	$0.00	$0.00	$0.00
Int / Pen	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
paid	$0.00		$0.00		$0.00	
owed	$0.00		$24.48		$0.00	

Payment Information For Current And Prior Year

Date	Half	Mach	Seq	TR	Proj	Prior	1st Half	2nd Half	Surplus
05/02/12	2-11	00002				$0.00	$2,257.87	$1,822.87	$0.00
06/20/11	2-10	0002-R				$4,167.88	$2,025.87	$1,817.22	$0.00

Image



ID	Label	Area	Perimeter	Dimension
A	2 s Br / B	22152	668	N/A

Appendix B

Resumes of Contributing Environmental Professionals

RESUME

ATUL PANDEY, P.E.
PRESIDENT

EDUCATION

M.S., Environmental Engineering, University of Cincinnati, 1993
B.S., Civil Engineering, University of Delhi, India, 1991

REGISTRATION

Registered as a Professional Engineer in the State of Ohio
Registered as a Certified Professional by the Ohio EPA Voluntary Action Program

EXPERIENCE

Mr. Pandey is the President and CEO of Pandey Environmental, LLC. His area of expertise includes site assessment, remediation, brownfield redevelopment, and urban conservation. Mr. Pandey has more than 12 years of experience performing Phase I , II, and III site assessments, underground storage tank removals, closure, assessment, and corrective action, RCRA closures and corrective actions, Ohio EPA Voluntary Action Program No Further Action Letters, Clean Ohio Fund Site Assessments and general site assessment and remediation tasks. His clients have included municipalities, federal and state agencies, commercial and industrial realtors, bankers, insurance companies and real estate developers.

Mr. Pandey has achieved the singular distinction of issuing the most number of No Further Action Letters under the State of Ohio EPA's Voluntary Action Program. Furthermore, he was responsible for writing the Ohio EPA VAP Generic Leaching Guidance Document; this document is currently being used in the state as a standard to evaluate leaching of vadose zone contaminants under the VAP and RCRA programs. Mr. Pandey also conducted the modeling using the SESOIL/Summers model to develop Ohio EPA VAP generic leaching standards; these numbers are currently promulgated by the Ohio EPA as guidance to certified professionals and volunteers.

Mr. Pandey technically and administratively supervised a multi-disciplinary team of 7 professionals who were involved in various projects ranging from Phase I and II environmental site assessments, underground storage tank closures, corrective actions, and risk assessments, RCRA closures and corrective actions, landfill groundwater monitoring and assessment programs, and Voluntary Action Program projects at Smalley & Associates, Inc. He also managed the operations of a full service Ohio EPA VAP certified analytical laboratory and drilling crew.

Mr. Pandey also worked at Ohio EPA's Voluntary Action Program unit of the Division of Emergency and Remedial Response and the Ohio EPA's Division of Solid and Infectious Waste Management. His general responsibilities included assessment of No Further Action Letters prepared by Certified Professionals conducting voluntary actions at properties with hazardous substances and petroleum contamination; determining RCRA corrective action eligibility of the properties for the Voluntary Action Program, and assessing leaching of petroleum constituents and other contaminants; providing technical assistance to Certified Professionals, volunteers, and other parties interested in voluntary action; and managing field audits of properties that have received Covenants Not to Sue.

At the Ohio EPA's Division of Solid and Infectious Waste Management, his general responsibilities included reviewing and evaluating Permit to Install applications and detail plans for all types of solid and infectious waste facilities making recommendations for approval or denial; directing the inspectors in conducting the solid waste compliance monitoring program; and providing technical assistance to local governments, citizens, industry, and others regarding solid and infectious waste management.

Mr. Pandey also served as a project engineer performing project management and providing team support. His responsibilities included budget control, report preparation, negotiations with state and federal regulatory agencies, vendor and consultant oversight, and working on on-site remediation and compliance issues.

Mr. Pandey identified, screened, and evaluated remedial technologies for RCRA CMS or CERCLA RI/FS, conducted the same for four solid waste management units at Portsmouth U.S. DOE site with soil and/or groundwater contamination, and also negotiated the corrective action scope with regulatory agencies and co-authored the CMS reports. He also managed and supervised a pilot scale treatability study of measuring enhancements to groundwater flow using an innovative technology *(pneumatic fracturing)*, developed the work and support plans (HSP, QAPjP, SAP), and wrote the summary report.

Mr. Pandey developed a database to facilitate air emissions reporting and permitting for over 250 sources in accordance with Title V requirements of the Clean Air Act for a synthetic organic chemical manufacturer in southern Ohio, created data architecture, conducted the beta-test on the database software, and created chemical process-specific user's guides. He also facilitated compliance with RCRA Subtitle CC regulations at this facility.

Mr. Pandey served as Technical Advisor to the State of Ohio, Environmental Protection Agency's modeling subgroup of the generic standards subcommittee charged with the development of generic deep soil cleanup levels across the state in accordance with the requirements of Senate Bill 221 (Brownfields); he conducted all of the modeling on this project using an unsaturated soil zone leaching model (SESOIL), and also authored the associated technical guidance documents.

Mr. Pandey is proficient with a wide range of environmental modeling software including MODFLOW, MAGNAS3, FRAC3DVS, MT3D, SAS, SURFER, GeoEAS, HELP, SESOIL, CHEMFLO, VLEACH, RITZ, PESTAN, Summers, AT123D, EnCompass, GARDS, SIMS, HonRuler, TANKS, and STARSHIP (Title V); advanced knowledge of Microsoft EXCEL and SURFER programs. He also taught 3-day modeling course entitled "Application of SESOIL in Ohio EPA's Voluntary Action Program" in June, 1999 and September, 2002 to Certified Professionals and other consultants.

PROFESSIONAL AFFILIATIONS

Member, National Ground Water Association

Co-chair, Fate and Transport Modeling Group, Ohio EPA subcommittee on development of generic standards, Senate Bill 221, Ohio EPA s Voluntary Action Program, 1994-96.

PUBLICATIONS AND PRESENTATIONS

Pandey, A., Hetrick, D.M., and Khan, A. "Innovative Approach Proposed for Evaluating Risks due to Soil Contamination." *SESOIL - A Decade*. Amherst, MA: Amherst Scientific Publishers, 1996.

Pandey, A., Cherry, E., Steigerwald, V., and Pickrel, C. "Groundwater Protection and Soil Remediation." *Fifth Annual Business and Industry's Environmental Symposium Conference Proceedings*. Cincinnati, 1996.

Pandey, A. et al. "Innovative Approach Developed for Deriving Leach-Based Soil Cleanup Values Protective of Groundwater." *12th Annual Conference on Contaminated Soils.* Amherst, MA: University of Massachusetts at Amherst, 1997.

Hetrick, D. and Pandey, A. "A Methodology for Establishing Cleanup Objectives in the Saturated Soil Zone Using Sensitivity and Uncertainty Analysis for Chemical Fate and Transport." *Journal of Soil Contamination*, 8(5):559-576, 1999.

NATHANIEL WANNER, P.G.
Project Manager
PANDEY Environmental, LLC
673 Mohawk Street
Suite 300
Columbus, Ohio 43206

EDUCATION:

Ohio University, Athens, Ohio
Bachelor of Science in Geological Sciences: Water Resources, 1998

SPECIALIZED TRAINING/ PROFESSIONAL AFFILIATIONS:

Professional Geologist, Commonwealth of Kentucky (KY-2487)

36 Hour US Army Corps of Engineers Wetland Delineation Training

40 Hour OSHA HAZWOPER Training and 8 Hour Supervisor Training

36 Hour Ohio Underground Storage Tank Installer Training

40 Hour Asbestos Training (Inspector/Management Planner)

CAREER HIGHLIGHTS/ACCOMPLISHMENTS

- Worked on sixteen (16) sites which received Covenants Not to Sue under the Ohio Voluntary Action Program (VAP). Work included Phase I and II Environmental Site Assessments, RCRA closures, underground storage tank removal, risk assessment, demonstration of background levels, contaminant transport modeling and site specific remediation.
- Prepared an Ohio VAP Urban Setting Designation (USD) covering the entire City of Cleveland.
- Prepared successful US EPA Brownfield Assessment grant applications totaling $800,000. Managed all activities under these grants, as well as assessments performed under other US EPA grants.
- Prepared successful environmental assessment and Clean Ohio grant applications totaling $5.4 million through the Clean Ohio Fund. Experience managing 7 Clean Ohio Fund projects totaling over $10 million.
- Prepared successful US EPA Brownfield Revolving Loan Fund Cleanup Subgrant for asbestos abatement activities totaling $200,000.
- Prepared documents used in application for successful $150,000 Clean Columbus Fund Phase II application and managed assessment.
- Member of the Gowdy North project team which won a 2010 Phoenix Award for excellence in brownfield redevelopment.
- Completed or supervised over 250 Phase I environmental site assessments following ASTM and/or VAP guidelines.

- Completed or supervised approximately 100 Phase II environmental site assessments, including property specific risk assessments.
- Prepared and reviewed multiple Quality Assurance Project Plans (QAPPs).
- Removal of dozens of Underground Storage Tanks and associated testing for environmental contamination.
- Manage remedial activities at multiple sites, including development of Remedial Action Plans.
- Management of multiple award task order contracts, including three US EPA Brownfield Assessment Grants and one contract with the US Navy.
- Investigation and remediation of petroleum releases, including investigation of 73 heating oil UST sites in a Marine Corps housing facility.
- RCRA Closure procedures on multiple sites that had not gone through the proper proceedings. Proper closure of these sites reduced liability and made the sites eligible for the Ohio Voluntary Action Program.
- Completed a Federal Environmental Impact Study on a property in rural Ohio. Completion of this assessment made the property eligible for HUD's Community Development Block Grant and helped bring a major distribution center to the area with over 100 new jobs.
- Geo-statistical analysis of groundwater quality in post-closure monitoring of a solid waste landfill.
- Watershed characterizations.
- Statistical determination of background levels on a site with arsenic levels exceeding regulatory guidelines. Successfully demonstrated that these levels were naturally occurring and not a result of activities on the site, thus negating the need for risk assessment and costly cleanup.
- Preparation of gravel mining and mulch permit applications.

PROFESSIONAL EXPERIENCE

8/06 to present *Project Manager, PANDEY Environmental, LLC*

Mr. Wanner joined PANDEY Environmental, LLC in August, 2006. Current responsibilities include management of a wide variety of projects including Clean Ohio Revitalization Fund and Clean Ohio Assistance Fund Site Assessments, US EPA Brownfield Assessment Grants, VAP and ASTM Phase I and Phase II Site Assessments, Human Health Risk Assessments, Fate and Transport Modeling, Soil Vapor Extraction System Design and Implementation, Landfill Gas Monitoring and Abatement, Groundwater Monitoring System Design and Monitoring, Inspection and Facility Compliance and Environmental Audit Reports, Quality Assurance Project Plans, Health and Safety Plans, Sampling and Analysis Plans, Groundwater Modeling and Natural Attenuation Projects, State of Ohio Brownfield Remediation and Redevelopment Projects. He also assists with sales and marketing activities. Additional responsibilities include training and management of employees, negotiating and approving subcontractor services and associated fees, and technological services.

8/00 to 8/06 *Teacher/Administrator; St. David's School; Raleigh, NC.*

Mr. Wanner was responsible for rebuilding and managing all aspects of a computer network of nearly 200 computers across seven buildings at a secondary school, including database design and maintenance. He also performed administrative duties, created all class schedules, and taught courses in science, computer and CADD. Completed graduate level coursework in education and administration during this time.

3/98 to 8/00 *Hydrogeologist, Smalley & Associates, Inc.*

Conducted a variety of environmental site assessments in many different capacities, including project supervision and computer modeling. Experience included work on several Ohio VAP Phase I and II ESAs.

PUBLICATIONS

Stoertz, M W, Hughes, M L, Wanner, N S and Farley, M E, 2001. Long-term water quality trends at a sealed, partially flooded underground mine, Environmental and Engineering Geoscience, 7(1):51-65

Stoertz, M.W., M.L. Hughes, N.S. Wanner, and M.E. Farley, 1999. Hydraulic sealing of an abandoned up-dip drift mine for AMD treatment: an 18-year post-audit. Proceedings of the 20th annual West Virginia Surface Mine Drainage Task Force Symposium.

Stoertz, M.W., M.L. Hughes, N.S. Wanner, and M.E. Farley, Geochemical changes in acid mine drainage due to hydraulic sealing of a coal mine, Abstract AGU 1999 Spring Meeting

Stoertz, M.W., M.L. Hughes, and N.S. Wanner, Long-term decrease in acid mine drainage from a sealed above-drainage coal mine, Invited abstract GSA 1999 National Meeting, Denver, CO.

ENGINEERING & MODELING SOFTWARE

Proficient with a wide range of environmental modeling software including SESOIL, AT123D, Aquifer Test, ESRI ArcMap, Johnson & Ettinger, Visual MODFLOW, Surfer, AqTeSolv; advanced knowledge of Microsoft Excel, Microsoft Access and AutoCAD.

Alex Harnocz
Environmental Scientist
PANDEY Environmental, LLC
673 Mohawk Street, Suite 300
Columbus, Ohio 43206

EDUCATION:

The Ohio State University, Columbus, Ohio
Bachelor of Arts in Geography, 2008

The Ohio State University, Columbus, Ohio
Master of City and Regional Planning, 2010

CAREER HIGHLIGHTS/ACCOMPLISHMENTS

- Contributed to eleven projects under the Ohio Voluntary Action Program (VAP). Work included Phase I and II Environmental Site Assessments, risk assessment, and site specific remediation.

- Contributed research, writing, and field data toward two Clean Ohio Revitalization Fund grant applications.

- Conducted research and writing for Phase I environmental site assessments following ASTM and/or VAP guidelines.

- Lead research, writing, and field activities for Phase II environmental site assessments following ASTM and/or VAP guidelines.

- Created a county-wide GIS layer detailing the path of all surface water flow. This robust layer is used daily for both mapping and modeling purposes.

- Made significant contributions to several state map publications including Lake Erie Coastal Erosion maps, Abandoned Underground Mine Mapping Database, and Oil and Gas Well Locator while working for the State Geologist of Ohio.

- Created several Microsoft Access databases to track wetland monitoring data for Cuyahoga Valley National Park. Wrote workflow documents and standard practices for wetland monitoring that are still in use.

SPECIALIZED TRAINING

- 40 Hour OSHA HAZWOPER TRAINING

ENGINEERING & MODELING SOFTWARE

- Advanced knowledge of ArcGIS and cartographic principles.
- Proficient in the Microsoft Office Suite, including database management in Access.
- Proficient with AutoCAD drafting software.
- Proficient with Trimble GPS software and managing digital cartographic and survey data

PROFESSIONAL EXPERIENCE

9/11 to present *Environmental Scientist, PANDEY Environmental, LLC*

Mr. Harnocz joined PANDEY Environmental, LLC in September 2011. His duties include conducting ASTM E1527-05 and VAP/Clean Ohio Phase I and II Property assessments as well as various environmental sampling activities. He supervises subcontractors utilized for site investigation and remediation activities including soil boring, monitoring well, and soil gas well installations. He is responsible for Auto CAD drafting, map creation using ESRI ArcGIS, and database management. Mr. Harnocz also assists in grant preparation.

5/11 to 9/11 *Watershed Implementation Coordinator – Franklin Soil and Water Conservation District*

Primary responsibility was the creation and expansion of several GIS datasets in support of the Illicit Discharge Detection and Elimination program. This program uses GIS modeling to identify sites which contribute to poor surface water quality and recommend those sites for field visits.

6/10 – 3/11 *Wetland Monitoring Intern – Cuyahoga Valley National Park*

Installed and monitored a network of groundwater wells. Assisted with biological surveys including the qualitative habitat evaluation index (QHEI) and Vegetation Index of Biotic Integrity (VIBI). Collected and processed data regarding groundwater, wetland boundaries, and other pertinent natural features.

9/09 to 6/11 *Teaching Assistant – The Ohio State University*

Designed and facilitated recitation sections for a major-required Environment and Natural Resources course "Society and Natural Resources" which required students to approach conflicts related to natural resources through several perspectives including game theory. The course attracted both traditional and non-traditional students, and therefore required a great deal of flexibility in teaching methods.

11/08 to 9/09 *GIS Technician – Columbus, Ohio Department of Public Utilities*

Managed and updated GIS data related to public utilities including municipal power, water, storm sewers, and sanitary sewers. The job required a holistic understanding of urban systems, a high proficiency using ArcGIS, and the ability to collaborate in a team environment on large multi-year projects.

8/08 to 11/08 *GIS Technician – Davey Resource Group*

Contributed to a temporary contract project to solve a dispute between two private utility companies. The job involved navigating difficult and sometimes dangerous field conditions to gather quality data regarding the status of utility poles across northern Ohio. The job required rapid acquisition of knowledge regarding power, telephone, and cable television infrastructure.

10/2007 to 8/2008 *GIS Intern – Ohio Department of Natural Resources*

Contributed to statewide geologic mapping efforts, especially related to abandoned underground mines and the oil and gas industry. Also served as the lead inventory keeper throughout the closure of the Lake Erie satellite office and its merger with the central office in Columbus.

Jason Martin
Environmental Scientist
PANDEY Environmental, LLC
673 Mohawk Street
Suite 300
Columbus, Ohio 43206

EDUCATION:

Youngstown State University, Youngstown, Ohio
Bachelor of Arts, Major in Geology; Minor in Religious Studies, 2005

SPECIALIZED TRAINING/ PROFESSIONAL AFFILIATIONS:

40 Hour OSHA HAZWOPER Training
8 Hour OSHA HAZWOPER Supervisor Training

CAREER HIGHLIGHTS/ACCOMPLISHMENTS:

- Provided assistance in project management and field work on the Gowdy Field project that was granted the Phoenix Award for EPA Region 5 in April of 2011 for recognition of excellence in brownfield redevelopment.

- Worked on 21 sites under the Ohio Voluntary Action Program (VAP), 6 of which subsequently pursued a a No Further Action Letter (NFA) . Work included Phase I and II Environmental Site Assessments, risk assessment, demonstration of background levels, contaminant transport modeling, site specific remediation, and No Further Action Letter issuances.

- Assumed project management responsibilities on a former landfill site that required the installation of a clay cap, an active and passive gas extraction system, a vapor barrier under the building pad, issuance of a No Further Action Letter, and continued operation and maintenance on site.

- Provided assistance to asbestos abatement oversight on 2 projects under the Ohio Voluntary Action Program (VAP) with Clean Ohio funds.

- Completed Area Wide Assessments to identify brownfields in a community.

- Participated in or completed multiple Phase I environmental site assessments following ASTM and/or VAP guidelines.

- Participated in or completed multiple Phase II environmental site assessments following ASTM and/or VAP guidelines.

- Oversight of removal of Underground Storage Tanks and associated testing for environmental contamination.

- Participated in award of task order contract to perform monitoring well maintenance for the US Navy at the Naval Weapons Station in Charleston, SC.

- Performed on site supervision at the Naval Weapons Station in Charleston, SC. of miscellaneous monitoring well maintenance activities including: the installation of 141 protective bollards, scrape and re-paint 27 protective bollards and 17 well casings, repair/replaced 8 well casings, updated and installed 185 well information tags, and abandonment of 2 monitoring wells and 1 deep drinking water well.

- Performed on site monitoring well sampling at the Naval Weapons Station in Charleston, SC. which required the collection of samples at 52 monitoring wells across the base.

- Implemented an in-situ remediation plan on a former industrial plant contaminated with tetrachloroethene, trichloroethene, and vinyl chloride using sodium permanganate well injections as an oxidizing agent.

- Implemented an in-situ remediation plan on a lumber yard contaminated with a creosote spill using potassium permanganate slurry as an oxidizing agent.

- Implemented an in-situ remediation plan on a former rail yard contaminated with carbon tetrachloride using 3-D Microemulsion (3DMe) as an anaerobic treatment.

- Participated in the statistical determination of background levels on a site with arsenic levels exceeding regulatory guidelines. Successfully demonstrated that these levels were naturally occurring and not a result of activities on the site, thus negating the need for risk assessment and costly cleanup.

- Participated in Phase I, Phase II, and data collection / organization activities for submission into the Clean Ohio Revitalization Fund program for multiple projects.

PROFESSIONAL EXPERIENCE:

9/07 to present *Environmental Scientist, PANDEY Environmental, LLC*

Duties include conducting ASTM E1527-05 and VAP/Clean Ohio Phase I and II Property assessments, various environmental sampling, supervising subcontractors utilized for site investigation and remediation activities including soil boring, monitoring well, and gas extraction well installations, soil excavations, demolition of building materials over a historic landfill and at an abandoned industrial plaza, asbestos abatement, building construction on a clay capped historic landfill, concrete removal over a potentially

contaminated industrial park site, oil skimming from contaminated groundwater wells, vapor barrier installations, an active and passive gas extraction system, hydrogen sulfide and methane gas monitoring sensor installations, underground storage tank removals, groundwater injections, oversight of miscellaneous monitoring well maintenance and sampling of monitoring wells on a military base, installation of vapor sampling points for soil gas investigations, installation of sub-slab vapor sampling points and summa canister use for indoor air quality investigations, and preparation of No Further Action Letter materials. Property assessment responsibilities include field investigation/monitoring, Spill Prevention Control and Countermeasures (SPCC) plan implementation and monthly SPCC inspections of a 10,000 gallon diesel aboveground storage tank, Auto CAD drawings, GIS map creation through ESRI ArcGIS, electronic database management with Microsoft Access, preparation of Sampling and Analysis Plans, Quality Assurance Project Plans, Health and Safety Plans, Groundwater Monitoring Plans, Groundwater and Soil Remediation Reports, Well Maintenance Reports, Clay Cap Material Sampling and Installation Reports, Vapor Barrier Installation Reports, Gas Extraction Reports, Building Piling Installation Reports, Operation and Maintenance Plans, VAP Phase I and II Reports, Pre-Remedial Risk Evaluation Reports and Post Remedial Risk Assessment Reports.

PREVIOUS EXPERIENCE:

From 05/03-09/07, employed with Sprint as a sales associate / phone technician. Worked with individual and business clients to develop suitable usage plans and proper cellular phone(s) to fit needs. In the role of technician, performed duties that included: repair and replacement of multiple models of cellular phones, management of the store's inventory including incoming/outgoing product, ordering and maintaining of store supplies, communication of various business and repair procedures to sales staff, and maintaining store appearance according to action plan from management.

From 2/99-05/03, employed as a sales associated with Circuit City. Worked with customer clientele to establish appropriate needs for various products including: computers and computer related products, car audio, home audio, cellular phones, and home video. Provided technical support for computers and computer related products by phone and on site calls.

From 11/96-12/98, employed as sales associate at Sun TV. Provided customer service, sales, and technical support on computers and computer related products. Was responsible for the maintenance and upkeep of the computer department under the department manager.

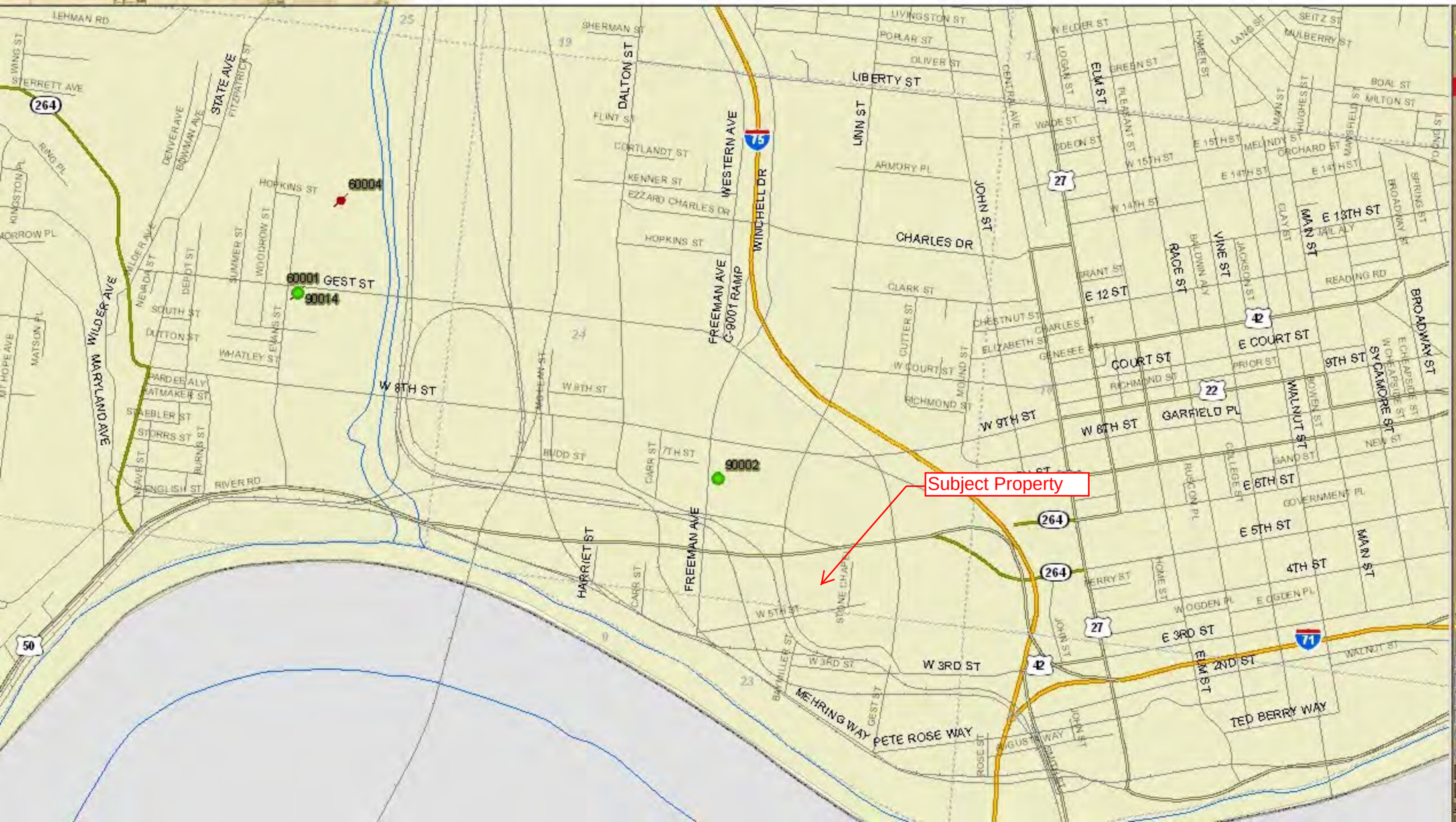
ENGINEERING AND MODELING SOFTWARE:

Knowledge of Microsoft Office (including Word, Outlook, Excel, PowerPoint) and Microsoft Access database management. Basic usage of GIS (ESRI ArcMap) and topographic map generation software. Experience with topographic software, Pro UCL calculation software, Seasonal Soil compartment model (SESOIL) for water, sediment, and pollutant transport, and AutoCAD software.

Appendix C

Regional Geology and Hydrogeology

Emergency Oil and Gas Well Locator



LAYERS

- All Layers
  - Emergency Layers
    - Oil and Gas Layers
      - Producing wells (OD
      - UIC wells (ODNR)
      - Plugged wells (ODNI
      - Permitted locations
      - Directional drill wellb
      - Storage Tanks (ODN
    - other
      - Fire Departments (D
      - Airports (ODOT)
      - Heliports (ODOT)
      - Hospitals (ODOT)
      - Colleges (ODOT)
      - Patrol Outposts (OD
      - Schools (PUCO)
  - Basemap Layers
  - Map Background(choose 1)
    - USGS Topo Map
    - Color Aerial Photos (2005)

Refresh Map

☑ Auto Refresh

Help:

Note: Layers are scale dependent. This means you must be zoomed in to certain scales to view some layers.

A closed group, click to open.
An open group, click to close.
A map layer.
A hidden group/layer, click to make visible.
A visible group/layer, click to hide.
A visible layer, but not at this scale.
A partially visible group, click to make visible.
An inactive layer, click to make active.
The active layer.
Layer's detailed legend (hidden), click to open.
Layer's detailed legend (open), click to hide it.
Layername - A layer with Metadata, click to view it.
Layername - A standard layer with no Metadata.

Ohio Well Completions Report

01/22/2013

API Well Number: **34061900020000** Landowner. Well No. **28**

Owner. **HISTORIC OWNER** Permit Issued: Status: **LU**

County: **HAMILTON** Township: Section: Lot: Tract:

Measured: Twp. Qtr. Quadrangle:

Zone **S** Surface Coord X: **1423200** Y: **408000** Bot Hole Coord X: Y: Lat **39.10241** Long **-84.53267**

GL **491** DF KB LTD DTD **417** PB Depth Acres

Date Commenced: Date Completed: Date PB Date Abandoned

TD Formation **TRENTON LIMESTONE** Prod. Form. Class

IP Natural **MCFG** IP AT **MCFG** Initial Rock Pressure

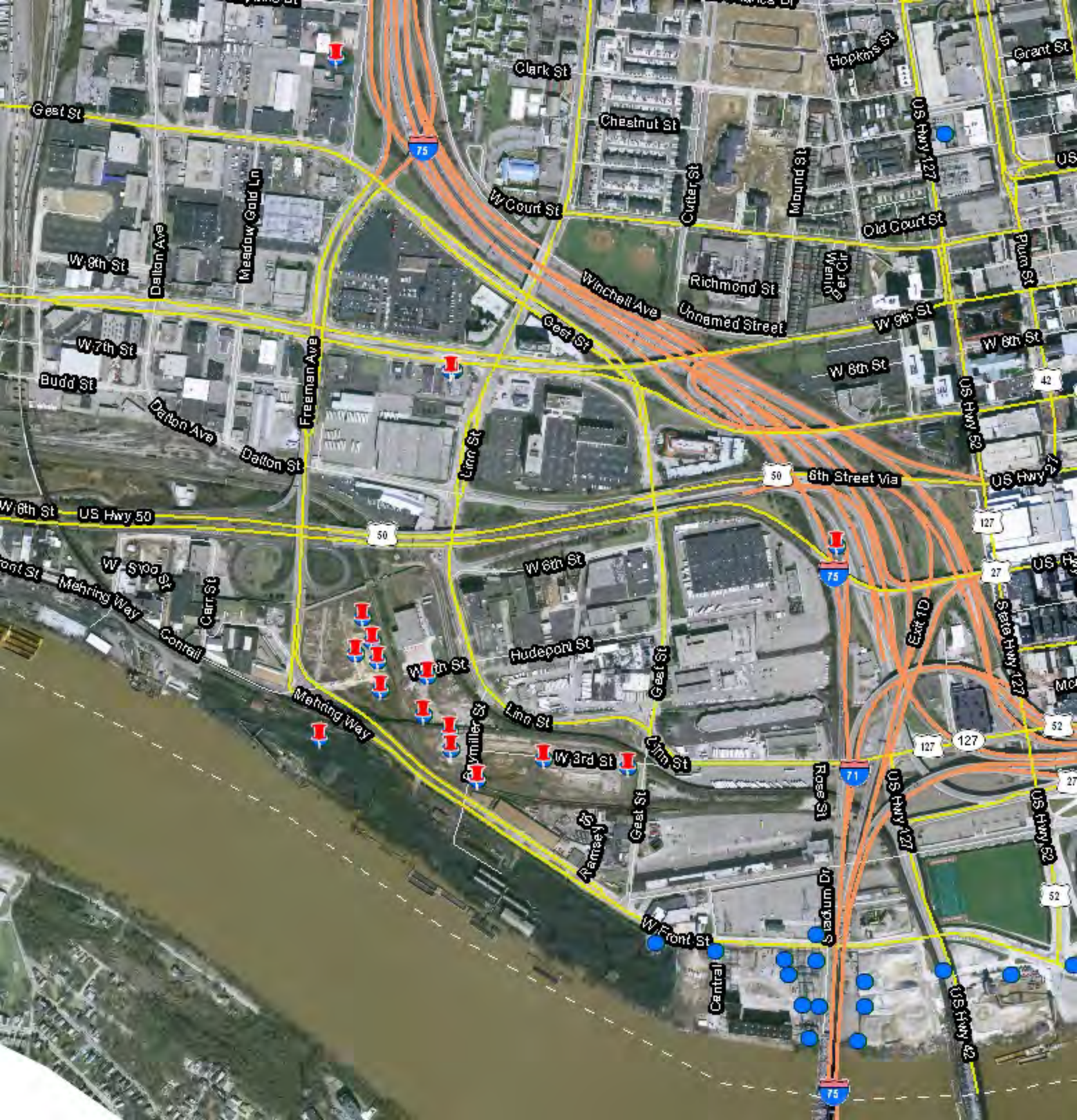
Perforations

Stimulations

Logging Co.

Log Types Tool

Open browser with map of well location.



Clark St
Hopkins St
Grant St
Gest St
Chestnut St
US Hwy 127
75
Meadow Gold Ln
Cutter St
Mound St
W Court St
Old Court St
W 9th St
Dalton Ave
Winchell Ave
Richmond St
Plum St
Unnamed Street
W 9th St
Gest St
W 7th St
W 8th St
W 8th St
Budd St
Freeman Ave
42
US Hwy 52
Dalton Ave
Dalton St
Linn St
50
6th Street Via
US Hwy 27
W 6th St
US Hwy 50
50
127
W 6th St
75
27
Mehring Way
Carr St
Exit 1D
State Hwy 127
Conrail
Hudepohl St
Gest St
Mehring Way
Linn St
52
127
127
W 3rd St
Linn St
71
Rose St
US Hwy 127
US Hwy 52
Gest St
Ramsey St
52
Stadium Dr
W Front St
Central
US Hwy 42
75

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021961

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUESGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.0993 Longitude: -84.532067

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-8 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 28'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 28', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 28 ft. Date 3/27/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 450 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 17 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 350 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 17 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SAND	0	2
DARK GRAY	LOOSE	SILT	2	4
BLACK	LOOSE	SAND	4	6
BROWN-GRAY		SILT	6	16
BROWN		CLAY	16	20
BROWN	STIFF	SILT	20	24
BROWN	SOFT	SILT	24	35
		Water Encountered At	28	35

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 3/27/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021963

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.097417 Longitude: -84.532867

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-9 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 22'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 24', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 22 ft. Date 3/20/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 14 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 0 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 350 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 14 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1.5 ft. To: 14 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	DENSE	SAND	0	2
BROWN	DENSE	SILT	2	6
BROWN	STIFF	SILT	6	8
BROWN-GRAY	STIFF	CLAY	8	12
BROWN	STIFF	SILT	12	14
BROWN	STIFF	CLAY	14	35
		Water Encountered At	22	35

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 3/20/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021968

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.098183 Longitude: -84.53165

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-10 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 28'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 28', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 28 ft. Date 3/26/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 17 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 450 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1 ft. To: 17 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SAND	0	2
BROWN-GRAY	DENSE	SILT	2	10
BROWN	STIFF	CLAY	10	14
BROWN	STIFF	SILT	14	35
		Water Encountered At	28	35

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 3/26/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021969

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.098433 Longitude: -84.530733

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-11 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 26'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 28', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 26 ft. Date 3/19/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 20 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1.5 ft. To: 20 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SAND	0	2
BROWN	DENSE	SILT	2	10
BROWN	SOFT	CLAY	10	12
BROWN	STIFF	CLAY	12	22
BROWN	STIFF	SILT	22	26
BROWN	STIFF	CLAY	26	35
		Water Encountered At	26	35

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 3/19/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021971

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.097817 Longitude: -84.5308

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-12 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 16'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 18', AUGERED ONLY TO 25'.

WELL TEST *

Pre-Pumping Static Level 16 ft. Date 3/18/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 25 ft.
Casing Diameter 2 in. Length 15 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 15 ft. and 25 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 12 ft. To: 25 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 200 lbs.

Method of Installation Pumped w/Tremie pipe

Depth: Placed From: 0.5 ft. To: 12 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SILT	0	8
BROWN-GRAY	STIFF	GRAVEL	8	10
DARK BROWN	STIFF	SILT	10	16
BROWN	STIFF	CLAY	16	25
		Water Encountered At	16	25

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 3/18/2009 Total Depth of Well 25 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021975

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.097567 Longitude: -84.53025

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-13 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 29'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 30', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 29 ft. Date 3/17/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 20 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 550 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1.5 ft. To: 20 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SAND	0	2
BROWN	LOOSE	SILT	2	6
DARK BROWN	STIFF	SILT	6	12
DARK BROWN	STIFF	CLAY	12	18
BROWN	STIFF	SILT	18	20
BROWN	SOFT	SILT	20	22
BROWN	STIFF	SILT	22	28
BROWN	SOFT	SILT	28	35
		Water Encountered At	29	35

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 3/17/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021976

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.097283 Longitude: -84.530217

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-14 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 20'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 22', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 20 ft. Date 3/18/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 300 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1.5 ft. To: 20 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 350 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1.5 ft. To: 20 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SILT	0	4
BROWN	DENSE	GRAVEL	4	6
DARK BROWN	STIFF	SILT	6	12
BROWN	STIFF	SILT	12	20
BROWN	SOFT	SILT	20	35
		Water Encountered At	20	35

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 3/18/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021977

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.097167 Longitude: -84.528383

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-15 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 24'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 24', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 24 ft. Date 3/26/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 17 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 450 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 17 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
GRAY	HARD	SAND	0	2
GRAY	HARD	GRAVEL	2	4
BROWN-GRAY	STIFF	SILT	4	35
		Water Encountered At	24	35

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 3/26/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2021978

View Image of Original Well Log

ORIGINAL OWNER AND LOCATION

Original Owner Name: *QUEENSGATE SOUTH REALTY*

County: *HAMILTON* **Township:** *CINCINNATI* **Section Number:**

Address: *520 FREEMAN AVE* **Lot Number:**

City: **State:** *OH* **Zip Code:** *45203*

Location Number: **Location Map Year:** **Location Area:**

Latitude: *39.096833* **Longitude:** *-84.5297*

CONSTRUCTION DETAILS

Borehole Diameter: **1:** *8.25 in.* **Borehole Depth:** **1:** *30 ft.* **Depth to Bedrock:**

2: **2:**

Casing Diameter: **1:** *2 in.* **Casing Length:** **1:** *20 ft.* **Casing Thickness:** **1:** *0.154 in.*

2: **2:** **2:**

Casing Height Above Ground: *3* **Aquifer Type:** *CLAY*

Date of Completion: *3/19/2009* **Total Depth:** *30 ft.* **Well Use:**

Driller's Name: *BJAAM ENVIRONMENTAL, INC.*

Screen Diameter: *2 in.* **Slot Size:** *0.01 in.* **Screen Length:** *10 ft.*

Type: *MACHINE SLOTTED* **Material:** *PVC*

Set Between: *From: 20 ft. To: 30 ft.*

Gravel Pack Material/Size: *1020 Sand* **Vol/Wt Used:** *400 lbs.*

Method of Installation: *Poured (gravity)* **Placed:** *FROM: 14 ft. TO: 30 ft.*

Grout Material/Size: *Bentonite pellets/chunks* **Vol/Wt Used:** *300 lbs.*

Method of Installation: *Poured (gravity)* **Placed** *FROM: 1.50 ft. TO: 14 ft.*

WELL TEST DETAILS

Static Water Level: *16 ft.* **Test Rate:** **Associated Reports**

Drawdown: **Test Duration:**

COMMENTS: *MW-16 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 16'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 18', AUGERED ONLY TO 30'.*

WELL LOG

Formations	From	To
BROWN SOIL	0	0.50
BROWN LOOSE SILT	0	2
BROWN DENSE GRAVEL & SILT	2	4
BROWN DENSE SILT	4	6
DARK BROWN LOOSE SAND	6	8
BROWN SOFT SAND	8	10
BROWN STIFF CLAY	10	30
WATER AT	16	30

Printing Tips (opens in new window)

Print This Page Return to County Search

Well log questions - Web site questions - Web policies

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021979

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.096833 Longitude: -84.5297

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-16 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 16'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 18', AUGERED ONLY TO 30'.

WELL TEST *

Pre-Pumping Static Level 16 ft. Date 3/19/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 30 ft.
Casing Diameter 2 in. Length 20 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 20 ft. and 30 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 14 ft. To: 30 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 300 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 1.5 ft. To: 14 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
BROWN	LOOSE	SILT	0	2
BROWN	DENSE	GRAVEL AND SILT	2	4
BROWN	DENSE	SILT	4	6
DARK BROWN	LOOSE	SAND	6	8
BROWN	SOFT	SAND	8	10
BROWN	STIFF	CLAY	10	30
		Water Encountered At	16	30

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 3/19/2009 Total Depth of Well 30 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2021980

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

QUEENSGATE SOUTH REALTY
Owner/Builder

520 FREEMAN AVE
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.097083 Longitude: -84.526683

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-17 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 24'. PROCASING WAS 2' BELOW GRADE TO 3' ABOVE GRADE. SOIL SAMPLED TO 26', AUGERED ONLY TO 35'.

WELL TEST *

Pre-Pumping Static Level 24 ft. Date 3/26/2009

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 5/4/2009

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: AUGER

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 8.25 inches Depth 35 ft.
Casing Diameter 2 in. Length 25 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 3 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 25 ft. and 35 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 400 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 17 ft. To: 35 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 450 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 17 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		SOIL	0	0.5
DARK BROWN		FILL MATERIAL	0	2
GRAY-BROWN	STIFF	SILT	2	4
BROWN	STIFF	SILT	4	22
BROWN	SOFT	SILT	22	35
		Water Encountered At	24	35

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 3/26/2009 Total Depth of Well 35 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2033655

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

FORMER NCS PROPERTY
Owner/Builder

990 W FIFTH ST
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.09875 Longitude: -84.532167

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-1 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 30'.

WELL TEST *

Pre-Pumping Static Level 30 ft. Date 6/7/2011

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 8/4/2011

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: GEOPROBE

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.5 inches Depth 38 ft.
Casing Diameter 2 in. Length 28 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 2.5 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 28 ft. and 38 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 50 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 26 ft. To: 38 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 50 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 26 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		GRAVEL	0	0.5
DARK BROWN	LOOSE	SAND	0.5	2
BROWN	SOFT	SILT	2	4
BROWN	SOFT	CLAY	4	8
BROWN	SOFT	SILT	8	10
DARK BROWN	LOOSE	GRAVEL	10	14
RED	LOOSE	GRAVEL	14	16
BROWN	STIFF	SILT	16	28
BROWN	SOFT	SILT	28	38
		Water Encountered At	30	38

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 6/7/2011 Total Depth of Well 38 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2033658

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

FORMER NCS PROPERTY
Owner/Builder

990 W FIFTH ST
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.098933 Longitude: -84.53185

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-2 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 28'.

WELL TEST *

Pre-Pumping Static Level 28 ft. Date 6/8/2011

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 8/4/2011

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: GEOPROBE

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.5 inches Depth 36 ft.
Casing Diameter 2 in. Length 26 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 2.5 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 26 ft. and 36 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 25 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 24 ft. To: 36 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 25 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 24 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		GRAVEL	0	0.5
DARK BROWN	LOOSE	GRAVEL	0.5	12
BLACK	LOOSE	GRAVEL	12	14
BROWN	LOOSE	GRAVEL	14	16
BROWN	SOFT	SILT	16	22
GRAY	STIFF	CLAY	22	24
BROWN-GRAY	STIFF	SILT	24	36
		Water Encountered At	28	36

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 6/8/2011 Total Depth of Well 36 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number: 2033659

Page 1 of 1 for this record.

WELL LOCATION

County HAMILTON Township CINCINNATI

FORMER NCS PROPERTY
Owner/Builder

990 W FIFTH ST
Address of Well Location

City CINCINNATI Zip Code +4 45203

Permit No. _____ Section; _____ *and or* Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 39.09865 Longitude: -84.531733

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GPS

Well location written description:

Comments on water quality/quantity and well construction:

MW-3 IS A 2" MONITORING WELL. WATER DURING DRILLING WAS AT 30'.

WELL TEST *

Pre-Pumping Static Level 30 ft. Date 6/8/2011

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BJAAM ENVIRONMENTAL, INC.

Address 472 ELM RIDGE AVE

City, State, Zip CANAL FULTON OH 44614

Signed JIM BREEN II Date 8/4/2011

(Filed Electronically)

ODH Registration Number _____

CONSTRUCTION DETAILS

Drilling Method: GEOPROBE

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.5 inches Depth 38 ft.
Casing Diameter 2 in. Length 28 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 2.5 ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 28 ft. and 38 ft.

GRAVEL PACK (Filter Pack)

Material/Size 1020 Sand Vol/Wt. Used 25 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 26 ft. To: 38 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 25 lbs.

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 26 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN		GRAVEL	0	0.5
BROWN	LOOSE	GRAVEL	0.5	4
DARK BROWN	DENSE	GRAVEL	4	6
DARK BROWN	DENSE	SILT	6	8
BLACK	DENSE	SAND	8	10
RED	DENSE	GRAVEL	10	12
DARK BROWN	DENSE	SAND	12	16
BROWN-GRAY	STIFF	SILT	16	18
BROWN	STIFF	SILT	18	38
		Water Encountered At	30	38

Aquifer Type (Formation producing the most water.) SILT

Date of Well Completion 6/8/2011 Total Depth of Well 38 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

Office No. 503
Log form No. 33689
Quad. W. Cincinnati

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton Twp. Cinci Sec.

Owner I. Scherwitz & Sons
Address 569 W.6th St., Cincinnati, Ohio
Well location N.side of Carlisle Ave.

Construction Details	Pumping Test
Casing: Diam. 6" length 170 ft.	Rate:
Screen: Cook 10 ft.	Hrs:
Type of pump:	D. D.
Capacity:	S.L. 107 ft.
Depth of setting:	Date 8-10-49

Owner's Well No.
Driller Jos. Koehne Sons
Located by cb Date 1950

R s

STRATA	Depth From	Depth To
Elevation		
Muddy gravel	0	29
Muddy sand & gravel		31
Sand & pea gravel		40
Sand		45
Fine sand		53
Coarse sand		60
Sand & gravel		80
Fine sand no water		101
Fine sand water at 101'		143
Sand & gravel		153
Fine sand & pea gravel		155
Coarse sand, carbon and Gravel		158
Very coarse sand & gravel.		179

3

x 1,426,[illegible]
y 91[illegible]

* Approximate Location

DNR 7802.96

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

953828

WELL LOCATION

County HAMILTON Township CINCINNATI

Owner/Builder (Circle One or Both) SUNOCO
First Last

Address of Well Location 901 W 8TH
Number Street Name

City CINTI Zip Code +4 45203

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well MONITORING

N ☐ X . +/- ft. or m

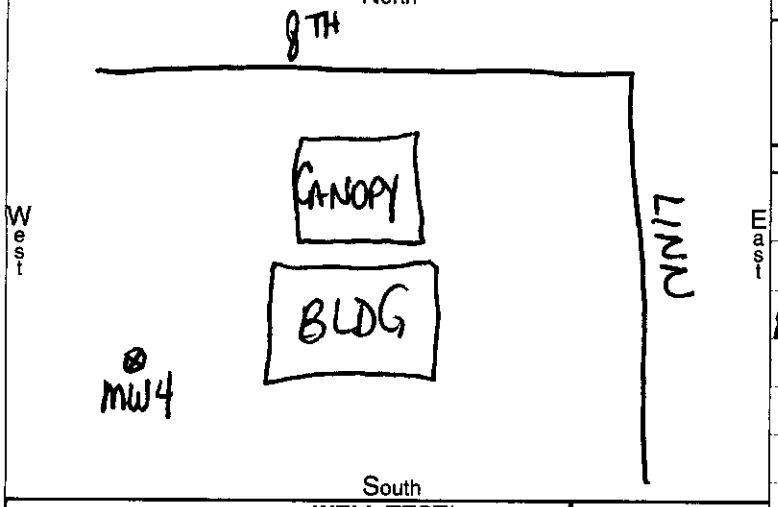
S ☐ Y . +/- ft. or m

Elevation of Well . +/- ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:



WELL TEST*

Pre-Pumping Static Level 43.9 ft. Date 8/14/03

Measured from: ☐ Top of Casing ☒ Ground Level ☐ Other

☐ Air ☐ Bailing ☐ Pumping* ☐ Other

Test Rate gpm Duration of Test hrs.

Feet of Drawdown ft. Sustainable Yield gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☒ No

Quality

PUMP/PITLESS

Type of pump NONE Capacity gpm

Pump set at ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ATC

Address 11121 CANAL

City, State, Zip CINTI 45241

Signed [signature] Date 9/12/03

ODH Registration Number

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 48 ft.
Casing Diameter 2 in. Length 38 ft. Thickness SCH40

2 ☐ Borehole Diameter inches Depth ft.
Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground FLUSH ft.

Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

Joints 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

SCREEN

Diameter 2 Slot Size .010 Screen Length 10 ft.
Type SLOTTED Material PVC
Set Between 48 ft. and 38 ft.

GRAVEL PACK (Filter Pack)

Material/Size GLOBAL #4 Volume/Weight Used 250
Method of Installation POUR
Depth: Placed FROM 38 48 ft. TO 36 ft.

GROUT

Material VOLCLAY Volume/Weight Used 150
Method of Installation TREMIE
Depth: Placed FROM 36 ft. TO 2 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
MW - 4		
ASPHALT & SUBBASE	0	2
FILL DIRT	2	6
BRWN SILTY CLAY	6	14
BRWN + GRAY SANDY SILT	14	18
BRWN S	18	48

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 8/14/03 Total Depth of Well 48 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

953829

WELL LOCATION

County HAMILTON Township CINCINNATI

Owner/Builder (Circle One or Both) SUNOCO (First / Last)

Address of Well Location 901 W 8TH (Number / Street Name)

City CINTI Zip Code +4 45203

Permit No. ____ Section/Lot No. (Circle One or Both) ____

Location of Well in State Plane coordinates, if available: Use of Well MONITORING

N ☐ X ____ . ____ +/- ____ ft. or m

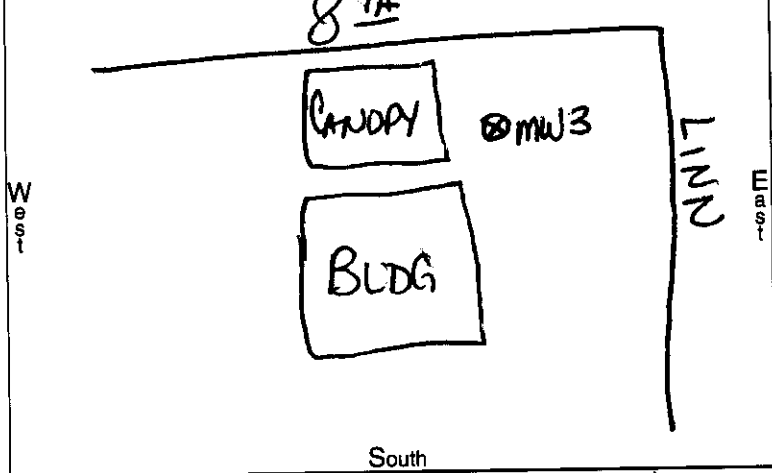
S ☐ Y ____ . ____ +/- ____ ft. or m

Elevation of Well ____ . ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source ____

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other ____

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: ____ Long: ____



WELL TEST*

Pre-Pumping Static Level 43.7 ft. Date 8/13/03

Measured from: ☐ Top of Casing ☒ Ground Level ☐ Other ____

☐ Air ☐ Bailing ☐ Pumping* ☐ Other ____

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☒ No

Quality ____

PUMP/PITLESS

Type of pump NONE Capacity ____ gpm

Pump set at ____ ft. Pitless Type ____

Pump installed by ____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ATC

Address 11121 CANAL

City, State, Zip CINTI 45241

Signed [signature] Date 9/12/03

ODH Registration Number ____

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other ____

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 47 ft.

Casing Diameter 2 in. Length 37 ft. Thickness SCH 40 in.

2 ☐ Borehole Diameter ____ inches Depth ____ ft.

Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground FLUSH ft.

Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐ 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other ____

Joints 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐ 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other ____

SCREEN

Diameter 2 Slot Size .010 Screen Length 10 ft.

Type SLOT Material PVC

Set Between 47 ft. and 37 ft.

GRAVEL PACK (Filter Pack)

Material/Size GLOBAL #4 Volume/Weight Used 400

Method of Installation POUR

Depth: Placed FROM 47 ft. TO 35 ft.

GROUT

Material VOLCLAY Volume/Weight Used 150

Method of Installation ~~POUR~~ TREMIE

Depth: Placed FROM 35 ft. TO 2 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
MW-3		
ASPH + SUBBASE	0	2
BRWN CLAY + $	2	4
BRWN SILTY CLAY	4	8
BRWN $ + $	8	38
BRWN SANDY SILT	38	44
GRAY SANDY SILT	44	47

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 8/13/03 Total Depth of Well 47 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

953830

WELL LOCATION

County HAMILTON Township CINCINNATI

Owner/Builder (Circle One or Both) SUNOCO First Last

Address of Well Location 901 W 8TH Number Street Name

City CINTI Zip Code +4 45203

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well MONITORING

N ☐ X ____ . ____ +/- ____ ft. or m

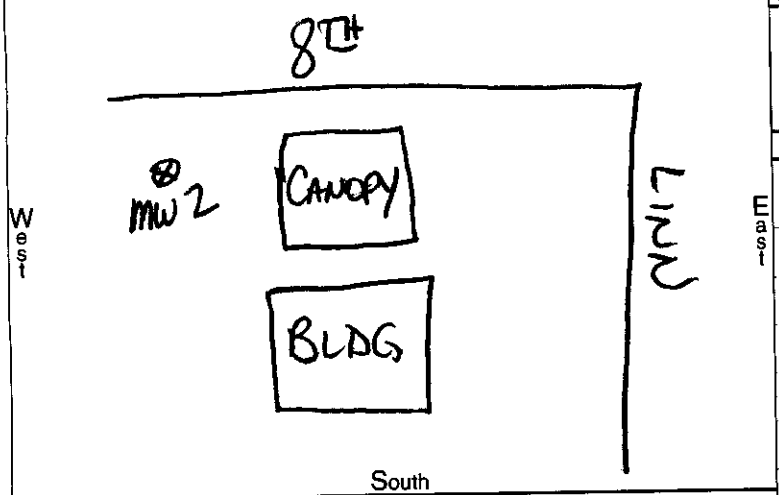
S ☐ Y ____ . ____ +/- ____ ft. or m

Elevation of Well ____ . ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source ____

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other ____

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: ____ Long: ____



WELL TEST*

Pre-Pumping Static Level 43.1 ft. Date 8/13/03

Measured from: ☐ Top of Casing ☒ Ground Level ☐ Other ____

☐ Air ☐ Bailing ☐ Pumping* ☐ Other ____

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☒ No

Quality ____

PUMP/PITLESS

Type of pump NONE Capacity ____ gpm

Pump set at ____ ft. Pitless Type ____

Pump installed by ____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ATC

Address 11121 CANAL

City, State, Zip CINTI 45241

Signed [signature] Date 9/12/03

ODH Registration Number ____

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other ____

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 47 ft.

Casing Diameter 2 in. Length 37 ft. Thickness SCH 40 in.

2 ☐ Borehole Diameter ____ inches Depth ____ ft.

Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground FLUSH ft.

Type 1 ☐ Steel 2 ☐ 1 ☐ Galv. 2 ☐ 1 ☒ PVC 2 ☐ 1 ☐ 2 ☐ Other ____

Joints 1 ☒ Threaded 2 ☐ 1 ☐ Welded 2 ☐ 1 ☐ Solvent 2 ☐ 1 ☐ 2 ☐ Other ____

SCREEN

Diameter 2 Slot Size .010 Screen Length 10 ft.

Type SLOT Material PVC

Set Between 47 ft. and 37 ft.

GRAVEL PACK (Filter Pack)

Material/Size GLOBAL #4 Volume/Weight Used 50

Method of Installation POUR (+ NATURAL CAVE)

Depth: Placed FROM 47 ft. TO 35 ft.

GROUT

Material CHIPS Volume/Weight Used 1100

Method of Installation POUR

Depth: Placed FROM 35 ft. TO 2 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
MW 2		
ASPH + SUBBASE	0	2
CLAY + BRICK FILL	2	4
BRWN + GRAY SILTY SAND	4	8
BRWN SILTY CLAY	8	10
BRWN SAND + SILT	10	14
GRAY SAND	14	16
BRWN SAND	16	29
GRAY S + G	29	36
GRAY SANDY SILT	36	47

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 8/13/03 Total Depth of Well 47 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

953831

WELL LOCATION

County HAMILTON Township CINCINNATI

Owner/Builder (Circle One or Both) SUNOCO (First) (Last)

Address of Well Location 901 W 8TH (Number) (Street Name)

City CINTI Zip Code +4 45203

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well MONITORING

N ☐ X _____ . _____ +/- _____ ft. or m

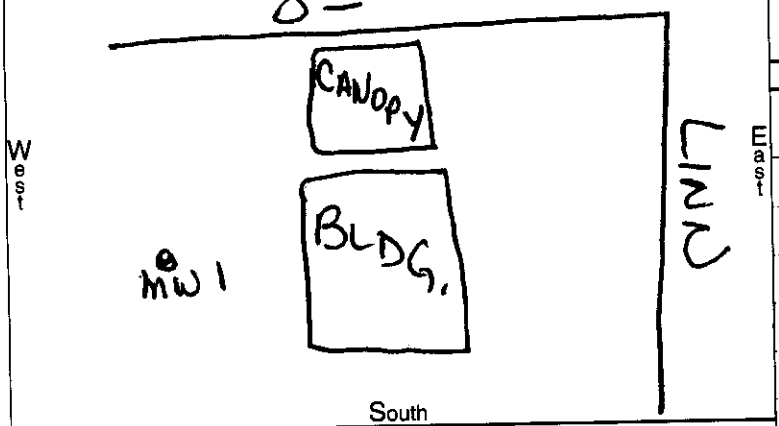
S ☐ Y _____ . _____ +/- _____ ft. or m

Elevation of Well _____ . _____ +/- _____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source _____

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other _____

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: _____ Long: _____



WELL TEST*

Pre-Pumping Static Level DRY ft. Date 8/8/03

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other _____

☐ Air ☐ Bailing ☐ Pumping* ☐ Other _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☒ No

Quality _____

PUMP/PITLESS

Type of pump NONE Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ATC

Address 11121 CANAL

City, State, Zip CINTI 45241

Signed [signature] Date 9/12/03

ODH Registration Number _____

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other _____

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 20 ft.

Casing Diameter 2 in. Length 10 ft. Thickness SCH 40 in.

2 ☐ Borehole Diameter _____ inches Depth _____ ft.

Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground FLUSH ft.

Type: 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐ 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other _____

Joints: 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐ 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other _____

SCREEN

Diameter 2 Slot Size .010 Screen Length 10 ft.

Type SLOT Material PVC

Set Between 20 ft. and 10 ft.

GRAVEL PACK (Filter Pack)

Material/Size GLOBAL #4 Volume/Weight Used 400

Method of Installation POUR

Depth: Placed FROM 20 ft. TO 8 ft.

GROUT

Material CHIPS Volume/Weight Used 200

Method of Installation POUR

Depth: Placed FROM 8 ft. TO 2 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
MW-1		
ASPH + SUBBASE	0	2
BRWN SILTY CLAY	2	~12
BRWN SANDY SILT	12	20

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 8/8/03 Total Depth of Well 20 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

OHIO WATER SUPPLY BOARD

Well Record No. 133

o. Hamilton 31 Twp. Cincinnati 2 Sec.....
/ell Location West end Sta. NE cor. Size.....
Ohio River property, Test Hole Map ..... M. Cinci

wner Columbia (Cinci.) G. & E. Co Address.....
riller ..... Date.....

/ell Head Elev. or M. P. 480
lev. of Ground at Well.....

imping Test: 5 300 Gal.
.....
tic Level 441 or 433 A.D. Date 8/26/29
rmal Pumpage .....

ality ..... Use.....

Adequacy of supply .....
.....

Owner's Well No. or Other Designation Test well - 7 U.S.C.S. 207
.....
Source of Data Cinci. Gas & Elec. Co.
C ted by R.J.B. Date.....

993102 STRATA	DEPTH From	To
Fill & Clay	0	25
Sandy Clay	25	34
Sand & Gravel	34	60
Sand & Gravel (rusty)	60	69
Sand, Some Gravel	69	80
Fine Sand & Gravel	80	85
Shale	85	TD

3

The water wells located at the west end station of the Columbia G. & E. are influenced by the rise & fall of the level of the Ohio River. Most of the static levels are near 440' or the level of the Pool Stage the Ohio River.

(D)

X 1,426,700
2000 - 1000
Y 405005

• Chief Aquifer

[redacted] [redacted] [redacted]

29

Office No. 529
Log form No. 9931028
Quad.

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton Twp. Sec.

Owner Cincinnati Gas & Electric Co.
Address Cincinnati, Ohio
Well location W. end station

Construction Details	Pumping Test
Casing: Diam. length	Rate: ✓
Screen:	Hrs:
Type of pump:	D. D.
Capacity:	S.L. ✓
Depth of setting:	Date

Owner's Well No.
Driller
ted by Date

Remarks

STRATA	Depth From	Depth To
Elevation		
Yellow clay	0	4
concrete		13
fill & some sandy clay		32
soft blue clay		45
dry gravel, some boulders		57
brown sand, some water		65
brown sand, some gravel water		90
coarse sand & gravel		105
sharp gray sand		119
coarse sand & gravel		116
boulders	116	

X 1,426,100
Y 40[illegible]

* Approximate Location

488
116
30

OHIO WATER SUPPLY BOARD

Well Record No. 138

31 — 2

Co. Hamilton Twp. Cinci Sec.
Well Location On Prop. on Ohio River Size
[illegible] to plant Map W. Cinci

Owner Union Gas & Elec. Co. Address Cincinnati, O.
Driller Layne-Ohio Date 4/24/37

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: ✓

Static Level 38' Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 5 of 1937
[illegible] Perm Well No. #4
Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

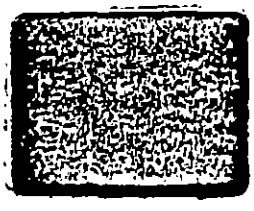
9931030 STRATA	DEPTH From	DEPTH To
Cinder Fill	0	3
Sand	3	10
Sandy Clay	10	36
Sand & Gravel, Water	36	48
Coarse Gravel & Sand, Water	48	58
Sand, Water	58	93
Coarse Gravel, Water	93	122
Broken Lime, Shale	122	125

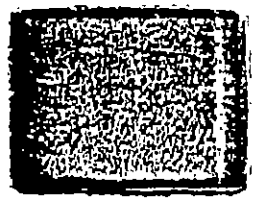
3

D

X 1,426,700
[illegible]
Y 405 000 S

* Chief Aquifer





490
122
368

32

OHIO WATER SUPPLY BOARD

Well Record No. 146

31

Co. Hamilton Twp. Cinci Sec.

Well Location West End Sta. Size 26"

Map W. Cinci

Owner Cinn.Gas & Elec.Co. Address Cincinnati,O.

Driller Layne-Ohio Date 5/9/41

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: 17 1080 GPM Pumping Level 69'

Static Level 53' Date

Normal Pumpage 600 GPM

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation 1 Replacement

Source of Data Layne-Ohio

Collected by Ramsey Date 8/18/42

9931031 STRATA	DEPTH From	DEPTH To
Fill	0	20
Sand & Clay	20	40
Fine Sand	40	70
Coarse Sand	70	90
*Coarse Sand & Gravel	90	117

3

X 1,426,700

Y 405,005

* Chief Aquifer

480
117
363
33

OHIO WATER SUPPLY BOARD

Well Record No. 136

Co. Hamilton Twp. Cinci Sec.
Well Location NW Corner Plant & Ohio River Size
Map W. Cinci

Owner Cin. Gas & Elec. Co. Address Cincinnat, O.
Driller Layne-Ohio Date 4/18/36

Well Head Elev. or M. P.
Elev. of Ground at Well 480

Pumping Test: ✓

Static Level ~~28~~ 28 Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 3
[illegible] Perm Well No. 2
Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

9931038 STRATA	DEPTH From	DEPTH To
Cinders	0	2
Clay & Wood	2	5
Soft Yellow Sandy Clay	5	30
Clay & Gravel	30	38
Gravel, Water	38	50
Fine Sand, Water	50	68
Sand, Gravel, Water	68	88
Fine Sand, Water	88	93
Sand & Gravel, Water	93	103
Broken Limestone & Gravel, Water	103	112
Limerock & Shale	112	115
3		
For Permanent #2		
x 1,426,700		
y 405,005		

* Chief Aquifer

OHIO WATER SUPPLY BOARD

Well Record No. 141

Co. Hamilton 3 Twp. Cinci 2 Sec.
Well Location Front & Rose Sts. Size 10"
Map W. Cinci

Owner U. G. & E. Co. Address Cincinnati, O.
Driller Layne-Ohio Date 8/30/39

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: 300 GPM 5 9' Draw-down

Static Level 46' 9" 47 Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 1 of 1940

Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

9931090 STRATA	DEPTH From	DEPTH To
Cinder & Brick Fill	0	6
Clay	6	34
Dirty, Rusty Gravel Sand	34	70
Gray Sand, Gravel, Fine	70	85

3

x 1,426,700
20 x 1000
y 405000

* Chief Aquifer

470
55+
405

6/2

Ground-Water Resources of HAMILTON COUNTY

by
Alfred C. Walker

0 1 2 Miles
0 1 2 3 Kilometers

1:62,500

Well Site Symbols

- Well Site
- Municipal-Industrial Well
- Test Well*
- Observation Well**
- A Chemical Analyses

S - Sand
CL - Clay
SH - Shale
LS - Limestone
SG - Sand & Gravel

Depth (ft.) - Water-bearing Formation - Yield (gpm)
290-SG-10
224
Depth to Bedrock (ft.)

Chemical Analysis Table

Well Site	A	B	C	D	H-5	H-6	H-9	H-11
Depth of well (ft.)	76	125	197	118	122	167	168	148
Aquifer	SG	SG	SG	SG	SG	SG	SG	SG
pH	7.5	7.8	7.6	7.6	7.1	7.6	7.1	7.4
Total hardness ($CaCO_3$)	376.0	146.0	—	350.0	440	280	410	310
Sulfate (SO_4)	50.0	52.0	101.0	79.9	61	6.1	97	290
Iron (Fe)	—	—	4.2	0.08	2.6	4.5	2.6	1.9
Manganese (Mn)	—	0.08	0.37	0.38	0.11	0.09	0.18	1.1
Fluoride (F)	0.11	0.23	0.21	0.30	0.10	0.30	0.30	0.10
Chloride (Cl)	40.0	21.0	32.0	36.0	31	9.8	65	200
Calcium (Ca)	105.6	45.0	129.0	110.0	120	78	100	78

Chemical constituents as milligrams per liter (mg/l).

Well Yields

AREAS IN WHICH YIELDS OF MORE THAN 500 GALLONS PER MINUTE CAN BE DEVELOPED.

Best ground-water areas in Hamilton County. Permeable sand and gravel deposits in ancient stream channels, suitable for large industrial well field development. Yields of as much as 1,000 gallons per minute have been reported.

AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE CAN BE DEVELOPED.

Sand and gravel deposits, generally well sorted, may yield several hundred gallons per minute. Highest yields are reported where recharge is available from nearby streams. Exploratory drilling is necessary to locate coarser materials.

AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE CAN BE DEVELOPED.

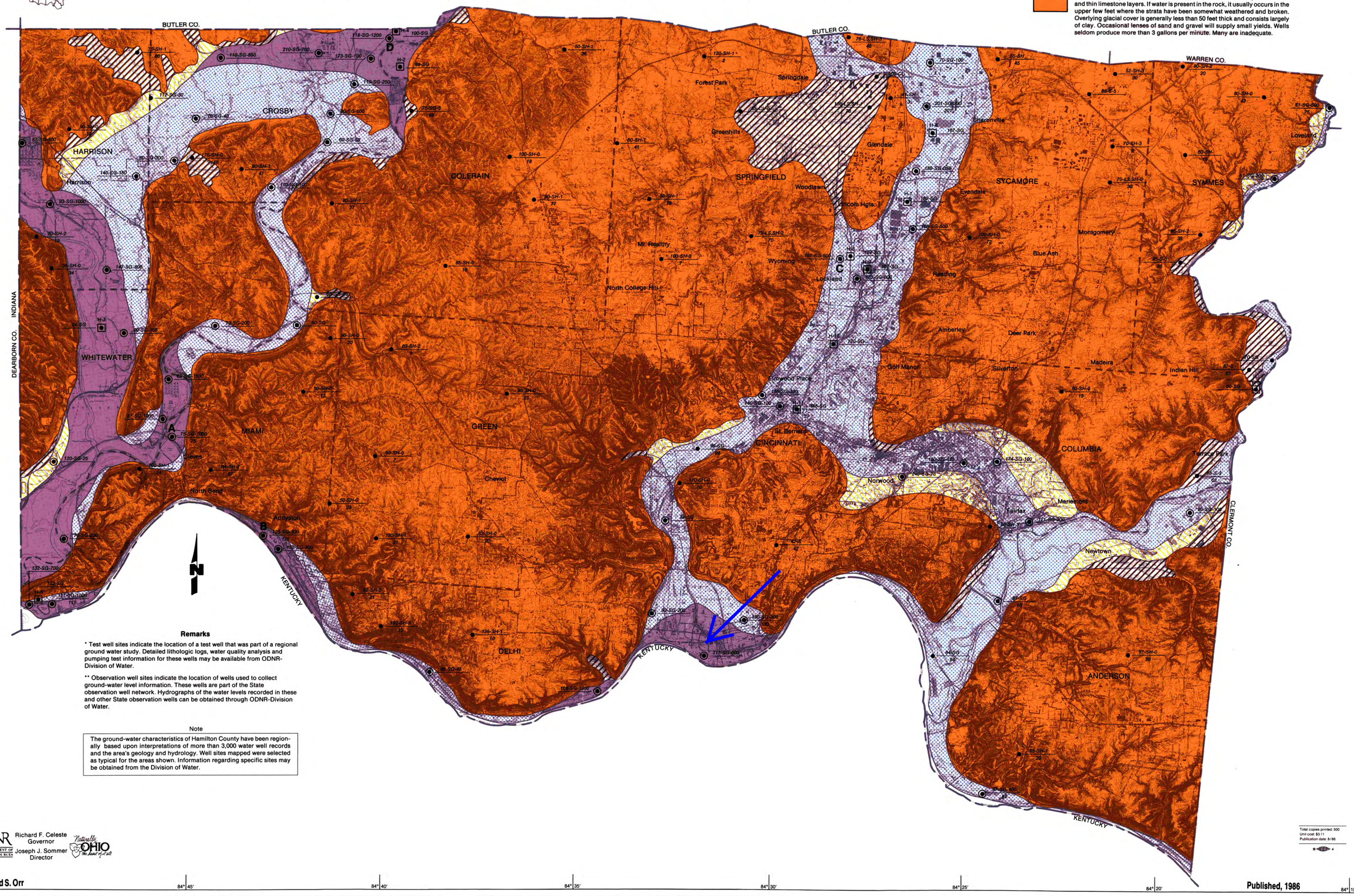
Valley fill contains thick local deposits of sand and gravel. Screened wells encountering permeable deposits yield less than 100 gallons per minute. Shale bedrock will supply very limited yields.

AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE MAY BE DEVELOPED.

Thick deposits of clay with thin lenses of sand and gravel will yield less than 10 gallons per minute. Wells not encountering sand and gravel produce less than 3 gallons per minute from the underlying limey shale at depths of less than 100 feet.

AREAS IN WHICH YIELDS SELDOM EXCEED 3 GALLONS PER MINUTE.

Poor source of ground water. Bedrock consists of interbedded plastic shales and thin limestone layers. If water is present in the rock, it usually occurs in the upper few feet where the strata have been somewhat weathered and broken. Overlying glacial cover is generally less than 50 feet thick and consists largely of clay. Occasional lenses of sand and gravel will supply small yields. Wells seldom produce more than 3 gallons per minute. Many are inadequate.



Remarks

* Test well sites indicate the location of a test well that was part of a regional ground water study. Detailed lithologic logs, water quality analysis and pumping test information for these wells may be available from ODNR-Division of Water.

** Observation well sites indicate the location of wells used to collect ground-water level information. These wells are part of the State observation well network. Hydrographs of the water levels recorded in these and other State observation wells can be obtained through ODNR-Division of Water.

Note

The ground-water characteristics of Hamilton County have been regionally based upon interpretations of more than 3,000 water well records and the area's geology and hydrology. Well sites mapped were selected as typical for the areas shown. Information regarding specific sites may be obtained from the Division of Water.

ODNR OHIO DEPARTMENT OF NATURAL RESOURCES
Richard F. Celeste Governor
Joseph J. Sommer Director
Naturally OHIO The Heart of it all

Cartography: David S. Orr

Total copies printed: 500
Unit cost: $3.11
Publication date: 8/86

Published, 1986

Appendix D

Previous Environmental Investigations

Prepared For:

Hudepohl Square LLC
c/o Mr. Sy Safi
GCCM Construction Services, LLC
PO Box 434
Union, Kentucky 41091-0434

Prepared By:

ATC ASSOCIATES INC.
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112

VAP PHASE I PROPERTY ASSESSMENT
FORMER HUDEPOHL BREWERY
801 WEST SIXTH STREET
CINCINNATI, OHIO 45203
ATC PROJECT NO. 72.39245.0001

William A. Norris

Prepared by: William A. Norris
Project Geologist

Reviewed by: Michael J. Luessen
VAP Certified Professional, No. 267

October 9, 2009

EXECUTIVE SUMMARY

ATC Associates Inc. (ATC) completed a Phase I Property Assessment of an 1.614-acre property located at 801 West Sixth Street in Cincinnati, Hamilton County, Ohio, (the "Property") for GCCM Construction Services, LLC during August-October 2009. The purpose of the study was to evaluate the Property for evidence of past or present releases of hazardous substances or petroleum that may have occurred on, underlying, or are emanating from the Property for the purpose of participation in the Ohio EPA's Voluntary Action Program (VAP) as codified under Ohio Administrative Code 3745-300-06. Accordingly, the scope of work included reviews of historic and current uses of the Property, review of the environmental history of the Property, review of the Property hazardous substance or petroleum release history, and a Property inspection.

The Property includes five industrial buildings of three to four stories with basements and cellars. The Property was formerly occupied by the Hudepohl Brewing Company's Plant No. 2 from 1934 to 1987. The Property was developed as a brewery in 1860 but was used as an ice cream factory in the 1920s and early 1930s. Portions of the Property were used as residences until at least 1940. The Property is currently vacant.

Specific Identified Areas were not identified by review of regulatory and historical records or Property reconnaissance. However, six conditions of potential concern were recognized at the Property: i) the past use of the property for industrial purposes, ii) the presence of small quantities of residual chemicals and petroleum products, iii) the presence of widespread floor staining and discoloration associated with general industrial use, iv) the past presence of electric generators and associated electrical equipment at the property, v) the presence of suspect ACMs in on-site buildings, and vi) the likely presence of lead-based paint (LBP) on structures given the age of the facility.

Residual drums and containers of maintenance chemicals and petroleum products are present in the northeast and southwest areas of the Property. Containers ranged from good to fair condition. Property reconnaissance identified evidence of multiple small scale releases (i.e., staining/discoloration) on concrete flooring throughout the Property. Historical documents indicate that the facility previously generated its own electric power using steam-powered generators located in various buildings at various times in the eastern portion of the Property. Electrical equipment associated with such generation may be a source of polychlorinated biphenyls (PCBs). Suspect asbestos-containing materials (ACMs) and suspect LBP were also noted throughout the facility. These suspect materials included materials in poor to severely damaged condition which could constitute a release of these substances to the environment. Given the long term use of the Property for manufacturing purposes, the use and storage of general maintenance chemicals and lubricants at several locations at the Property, the presence of general floor discoloration from years of apparent small scale spills, leaks and drips, and the presence and poor condition/damaged state of suspect ACMs and LBP, the entire Property is considered a single Identified Area.

A historic lumber yard was located on the north adjacent property from at least 1883 until 1944. Given the possibility that hazardous chemicals were used at the lumber yard for lumber treating operations, the apparent up-gradient direction of the lumber yard relative to the Property, and the close proximity of the facility to the Property, the historic lumber yard is considered an Identified Area.

A historic freight warehouse/garage was located to the east of the Property from approximately 1927 to 1958. Four gasoline USTs were located at the facility at various locations at different times. The nearest UST was situated approximately 60 feet east of the Property. Given that the UST locations are potentially up-gradient, their locations proximal to the Property, and that no record of UST closure is on file with BUSTR, the historical presence of USTs east of the Property is a considered an Identified Area.

A Phase II Property Assessment (and potentially associated remedial actions) would be required to obtain a No Further Action letter for the Property.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1

1.1 PURPOSE 1
1.2 METHODOLOGIES 2
1.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT 3

2.0 BACKGROUND INFORMATION 5

2.1 PHYSICAL SETTING 5
2.1.1 Property Description and Location 5
2.1.2 Vicinity Characteristics 8
2.1.3 Property Land Use 8

3.0 PROPERTY AND VICINITY PHYSICAL CHARACTERISTICS 9

3.1 REGIONAL CHARACTERISTICS 9
3.1.1 Geologic Characteristics 9
3.1.2 Hydrogeologic Characteristics 10
3.2 PROPERTY SPECIFIC CHARACTERISTICS 10
3.2.1 Topographic Characteristics 10
3.2.2 Soil, Geologic, and Hydrogeologic Characteristics 11

4.0 PREVIOUS INVESTIGATIONS 12

5.0 OPERATIONAL AND ENVIRONMENTAL HISTORY REVIEW 13

5.1 PROPERTY 13
5.1.1 Chronological Historical Use of the Property 13
5.1.2 Environmental Regulatory Compliance History of the Property 18
5.1.3 Regulatory File Review 19
5.1.4 Interviews 21
5.1.5 Reconnaissance of Property 22
5.2 SURROUNDING PROPERTIES 27
5.2.1 Environmental Regulatory Compliance History of Surrounding Properties 28
5.2.2 Regulatory File Review 37

6.0 PHASE I CONCLUSIONS AND FINDINGS 38

6.1 IDENTIFIED AREAS AND CHEMICALS OF CONCERN 38
6.1.1 Property 38
6.1.2 Adjacent Properties 39
6.2 CONCLUSIONS 40

7.0 BIBLIOGRAPHY 41

7.1 INTERVIEWS 42

ATTACHMENTS

Figures:
- Figure 1: Property Location Map
- Figure 2a: Property Plan
- Figure 2b: Property Plan (Historical Use)
- Figure 3: Property Plat Map
- Figure 4: Auditor's Map
- Figure 5: Geologic Map
- Figure 6: Ground-Water Resource Map
- Figure 7: Soil Survey Map

Tables:
- Table 1: Historical Use and Building Summary

Appendix A: Resumes of Key Personnel
Appendix B: Limitations
Appendix C: ODNR Well Log Search
Appendix D: Previous Reports
Appendix E: Sanborn / Historical Maps
Appendix F: Aerial Photographs
Appendix G: Hamilton County Auditor's and Recorder's Records
Appendix H: City Directory Records Summary
Appendix I: Environmental Database Report
Appendix J: FOIA Requests
Appendix K: Records of Communication
Appendix L: Property Photographs

1.0 INTRODUCTION

ATC Associates Inc. (ATC) completed a Phase I Property Assessment (Property Assessment) under Ohio EPA's (OEPA) Voluntary Action Program (VAP) of a 1.614-acre former industrial property (the "Property") in Cincinnati, Ohio. The Property is located at 801 West Sixth Street in the Queensgate area of Cincinnati, as shown in Figure 1. The Property includes a portion of the property previously owned and operated by the Hudepohl Brewing Company ("Hudepohl") prior to 1987. The study was completed from August to October 2009.

The Property Assessment was conducted on behalf of Hudepohl Square LLC in general accordance with ATC Proposal No. 072-2009-0169R dated August 20, 2009. This report documents our findings.

1.1 Purpose

It is ATC's understanding that Hudepohl Square LLC (Hudepohl Square), the Property owner, is considering redevelopment of the Property for mixed commercial/residential purposes. A portion of the existing buildings would be razed and remaining buildings renovated in association with the subject redevelopment project. It is ATC's understanding that Hudepohl Square wishes to conduct redevelopment in association with the City of Cincinnati. The purpose of the project is to identify environmental issues and associated liabilities associated with proposed redevelopment.

This assessment was conducted in accordance with VAP Phase I Property Assessment requirements (Ohio Administrative Code [OAC] 3745-300-06). The purpose of conducting a Phase I Property Assessment under the VAP is to determine whether there is any reason to believe that a release of hazardous substances or petroleum has or may have occurred on, underlying or is emanating from a property, including any release from management, handling, treatment, storage or disposal activities from on- or off-Property activities. Any area of the Property which may contain hazardous substances or petroleum due to a release of such material is recognized as an "Identified Area." The scope of work completed for this assessment included: i) review of historic and current Property uses, ii) review of the

environmental history of the Property, iii) review of the hazardous substance or petroleum release history, and iv) a Property inspection.

This report is for the use and benefit of, and may be relied upon by Hudepohl Square LLC, GCCM Construction Services LLC, the City of Cincinnati, or any of their affiliates and third parties authorized in writing by Hudepohl Square LLC, GCCM Construction Services LLC, the City of Cincinnati, or ATC, including lender(s) in connection with a secured financing of the Property, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual Property conditions may change with time, and that hidden conditions may exist at the Property that were not discoverable within the authorized scope of the assessment. ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

1.2 Methodologies

The Phase I Property Assessment was performed by Mr. William A. Norris, Project Geologist, and Mr. Michael J. Luessen, PG, a VAP Certified Professional (CP No. 267) with ATC's Cincinnati, Ohio office. Resumes of personnel are provided in Appendix A.

Methods employed during this study were conducted in accordance with OAC 3745-300-06 and are summarized in outline form below.

Records Review

- Identification of physical characteristics of the Property through a review of available topographic, geologic, and groundwater data (to facilitate evaluation of the potential migration of hazardous materials or petroleum products to or from the Property) including Ohio Department of Natural Resources well logs,

- Evaluation of potential environmental impact associated with historical land use through a review of reasonably ascertainable standard sources including land deeds, fire insurance maps, city directories, aerial photographs, and interviews,

- Evaluation of information contained within federal and state environmental databases concerning the Property and areas surrounding the Property (to identify records of reported environmental conditions which could impact the Property), and

- Review of publicly available environmental data concerning the Property from the U.S. EPA, Ohio EPA, Ohio Bureau of Underground Storage Regulations (BUSTR), Local Emergency Planning Committee, local fire department and local health department.

Property Reconnaissance/Interviews

- Documentation of current Property conditions, including observations and interviews regarding the presence, absence, or release of hazardous substances/petroleum products; management, handling, generation, treatment, storage, or disposal of hazardous, regulated, or medical wastes and petroleum; electrical equipment that utilize oils which potentially contain polychlorinated biphenyls (PCBs); and storage tanks (above or below ground),

- Observation of general conditions of the Property and surrounding areas including identification of general topography and migration conduits such as basements, drains, tiles, wells, and utility lines, and

- Limited observation of adjacent and nearby properties to identify the potential for environmental conditions (if present and/or suspected) which could impact the Property.

Report Preparation/Documentation

- Preparation of a report in accordance with the OAC 3745-300-06 standard, including: i) photographic documentation of Property conditions, ii) copies of pertinent records, iii) documentation of interviews, iv) a copy of the environmental database report, v) identification of areas located on or underlying the Property where a release of hazardous substances or petroleum is known or suspected.

1.3 Limitations and Exceptions of Assessment

Portions of the Property were not accessible for inspection at the of field reconnaissance. These areas included underground storage cellars and the third floor of the western-most building. These areas were either barricaded against entry or not accessible due to damaged stairways.

This Property assessment did not include documentation of issues or conditions beyond the scope of OAC 3745-300-06 (such as radon, lead in drinking water, regulatory compliance, cultural and historic issues, health and safety, ecological and endangered species issues, etc.). Any property assessment is inherently limited in that findings from such study are

based on available information and current conditions. Specific limitations of this study are discussed in greater detail in Appendix B.

2.0 BACKGROUND INFORMATION

2.1 Physical Setting

2.1.1 Property Description and Location

The Property consists of a single consolidated parcel encompassing a total of 1.611 acres located in the Queensgate commercial/industrial district of Cincinnati, Hamilton County, Ohio. It lies south and east of the intersection of West Sixth Street and the former Stone Street and northeast of the intersection of the former Stone Street and the former Carlisle Avenue. Both Stone Street and Carlisle Avenue were vacated by the City of Cincinnati and adjacent portions of the right-of-ways incorporated into the Property. The Property boundaries are approximately defined by lines connecting the following Latitude and Longitude coordinates beginning at the northeast corner of the Property and moving clockwise:

	Latitude (north)	Longitude (west)
1)	39° 06' 00.50"	84° 31' 39.99"
2)	39° 05' 58.49"	84° 31' 40.17"
3)	39° 05' 57.99"	84° 31' 43.52"
4)	39° 05' 59.93"	84° 31' 43.37"

The property location and physical setting are shown in Figure 1 on the Covington, Kentucky-Ohio, USGS 7.5 Minute Topographic Map. An overview/plan of the Property is shown in Figure 2a.

The Property lies within the southeast quarter of Section 24 of Fractional Range 1, Township 4 of the Between the Miamis Survey. The Property is situated in the Lackman Brewing Company Survey within Hathaway's Subdivision. The Property is identified as Parcel No. 136-0004-0243, owned by Hudepohl Square LLC. Auditor's Plat Maps for the Property are included as Figures 3 and 4.

For ease of identification and cross-referencing, buildings and areas of the Property are identified by the building and yard numbers assigned to them by Hudepohl in 1984 (see Figures 2a and 2b). These numbers include several buildings owned by Hudepohl that are

not included within the subject property. On-site buildings include existing Buildings 1, 4, 5, 10 and 11; former Buildings 2, 3, 8 and 9; and Yard A.

The Property is currently occupied by five industrial buildings. The buildings, built between approximately 1859 and 1961, are two to four stories with basements and sub-basements (i.e., cellars). Each building is constructed of concrete, steel and brick. Four buildings and a roofed structure located over a shipping yard (Yard A) were demolished within the last 5 to 10 years. Cellars remain below the footprint of four of the demolished buildings (Nos. 2, 3, 8 and 9) as well as two of the existing buildings (Nos. 10 and 11).

Public utilities including water, sewer, electricity and natural gas are available to the Property although water, electric and gas are not currently in service.

Building 1, located in the northeast corner of the Property, is a three-story structure with a basement that formerly housed steam boilers, electric generation equipment, and mechanical systems. A smoke stack is located near the southwest corner of the building. An traction elevator is located near the southeast corner. A cooling tower is located on the roof. Historic records indicate that a ground level concrete structure located on the east exterior of the building is a coal chute. The building was built in 1946.

The foot prints of former Buildings 2, 3, 8 and 9 are covered by demolition debris (primarily concrete and brick) and weeds. Three approximately 8,000-gallon steel storage tanks were observed on top of the debris in the area of Building 2. The tanks were apparently formerly used to store beer as part of the brewing process. The area of the former structures is underlain by deep cellars (up to 40 feet below grade) which are currently intact by not accessible. Historical records indicate the cellars were present as early as 1935 but, given the age of the previous buildings, were likely excavated at the time the Property was first developed as a brewery in the late 1800s.

Building 4, located in the north-central portion of the Property, is a four-story structure with two mezzanine levels and a basement. The east side of the building is largely open due to wall penetrations made during previous demolition and storage tank recovery activities. The building was formerly used for fermenting, racking (separation of beer from residual solids after fermentation), and shipping. The building was built in 1947.

Building 5, located along the west side of the Property, is a three-story structure with a partial basement at the south end. The basement was used as locker rooms and for beer storage. Six approximately 7,000-gallon steel beer storage tanks were observed in the basement. The building was constructed circa 1900 and formerly used for beer bottling, bottle washing, and shipping/receiving.

Yard A, located in the south-central portion of the Property, is covered by concrete pavement. Loading docks are located along the north and west edges of the area proximal to Buildings 4 and 5. The area was formerly covered by a one-story roofed structure consisting of wooden trusses supported on brick walls and steel beams. A partial brick wall and three wooden trusses were observed along the south edge of the area. A partial charred truss (evidence of a previous structural fire) was noted at the northwest corner of the yard. Reclaimed brick and wood beams as well as miscellaneous materials (equipment and containers) and demolition debris are located in this area.

Building 10, located at the southeast corner of the Property, is a two-story building with a mezzanine level. The structure is underlain by a deep cellar. The building was formerly used as a brew house which housed large brewing kettles and tanks and for grain receiving. Laboratories and offices were also housed in the building. Miscellaneous debris and materials including bags of cement, propane tanks, and furniture, were observed on the ground floor of the building. Large openings are present on the west side of the building from previous demolition and brew tank recovery operations. A portion of the concrete floor on the ground level had been removed by demolition operations allowing a partial view of the under lying cellar. A partial view of the cellar was also possible from a doorway from the north adjacent building although physical access to the space was not possible. A large steel beer storage tank (approximately 15' in diameter) was visible in the cellar. The building was constructed in 1961 although the cellar pre-dates the over lying building.

Building 11 is located near the southeast corner of the Property between Buildings 1 and 10. The building consists of a single story with a mezzanine and a basement. A deep cellar (not accessible) is located below the basement. The building was formerly a boiler house and maintenance shop. Two multi-story boilers and associated mechanical equipment are located on the east side of the building. Residual coal was observed in the basement in the area of the boilers. A former coal chute is located on the east side of the building. An

apparent natural gas line pressure relief pipe was observed at the northeast exterior corner of the building suggesting that the boilers could be fired by natural gas as well as coal. The building was constructed in 1909 and apparently renovated in the 1960s.

The above-referenced buildings (both current and former) occupy the entire Property except a narrow portion along the south edge of the Property formerly occupied by Carlisle Avenue. No bare soil or landscaped areas were observed.

2.1.2 Vicinity Characteristics

The Property is located in a predominantly industrial/commercial area of Cincinnati. Adjacent buildings to the east, south and west were formerly owned and operated by Hudepohl. The east and south adjacent buildings are currently owned and/or operated by the Cincinnati Belt and Transmission Company (CBT) for warehousing and distribution purposes. The west adjacent facility appears to be used for warehousing. Further west is a building used as a jail. The Property is bordered on the north by West Sixth Street beyond which are a parking lot, green space and an entrance ramp to U.S. Route 50. Route 50 lies further north. Land use immediately surrounding the Property is shown in Figure 2a.

2.1.3 Property Land Use

The Property is currently vacant and unused. ATC understands that the proposed future use of the Property is to demolish a portion of the existing buildings, renovate remaining buildings, and redevelop the Property for new commercial/residential applications. ATC further understands that the new development as proposed will be "green" in nature, and may include elements including: i) recycling of existing building materials for bulk aggregate and ii) groundwater extraction/recovery for heating/cooling applications.

3.0 PROPERTY AND VICINITY PHYSICAL CHARACTERISTICS

3.1 Regional Characteristics

The Property is situated on the relatively flat flood plain of the Ohio River valley. The Ohio River flows towards the west approximately 1,500 feet south-southwest of the Property. The Property lies approximately 40 feet above the normal pool level of the river.

3.1.1 Geologic Characteristics

Southwest Ohio is characterized by pre-glacial valleys carved into underlying bedrock. The valleys have been partially filled with unconsolidated clay, sand and gravel deposits during Pleistocene glaciation. The Property is located in the Ohio River valley on a glacial outwash terrace north of the Ohio River. Bedrock at depth in the area consists of Ordovician-age interbedded plastic shales and limestones. Surface soils in the area of the Property consist of fine-grained lacustrine or deltaic glacial outwash deposits consisting predominantly of fine sand, clay and silt up to 60 feet thick. The outwash is underlain by up to 20 feet of sand and gravel and approximately 70 feet of sand (Walker, 1986; Brockman et al., 2004). A copy of the geologic map for the Property vicinity is included as Figure 5.

A review of water well logs for the area surrounding the Property available from the Ohio Department of Natural Resources (ODNR) found 8 wells located within one-half mile of the Property. No recorded wells were located on the Property. The nearest well is located approximately 1,500 feet east of the Property (well No. 47). The remaining wells are located approximately 2,000 feet southeast of the Property. Well No. 47 appears to have been a commercial/industrial well located in an area that is now developed as a highway. The remaining wells were installed at an electric substation operated by a local public utility company. The logs do not indicate the use of the water from the wells. Wells were installed between 1937 and 1950. An ODNR map of oil/gas wells for downtown Cincinnati, dated August 7, 2000, does not show the presence of oil or gas wells at the Property or in the surrounding area.

The well logs indicate that the area surrounding the Property is underlain primarily by clay and fine-grained sediments to depths as much as 45 feet. Sand and gravel underlies the clay to

limestone and shale bedrock at depths varying from approximately 85 to more than 179 feet. Copies of ODNR well logs are provided in Appendix C.

3.1.2 Hydrogeologic Characteristics

Geologic materials in the property vicinity provide an excellent source of groundwater (Walker, 1986). Wells installed into the permeable sand and gravel outwash deposits of the Ohio River valley are recharged by nearby rivers/streams and typically yield more than 500 gallons per minute (gpm). Yields as much as 1,000 gpm have been reported. ODNR well logs indicate that static ground water levels range from approximately 28 to 101 feet below ground surface. Historical records indicate that a previous well located on-site had been installed to 98 feet (Wimberg, 1989). A copy of the Ground-Water Resources of Hamilton map (Walker, 1986) is included as Figure 6.

The flow of shallow groundwater often mimics local topographic and drainage patterns. Based upon local topography and surface drainage patterns as interpreted from the USGS map, groundwater beneath the area of the Property is expected to flow generally towards the southwest towards the Ohio River. Estimated groundwater levels and/or flow direction may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

3.2 Property Specific Characteristics

3.2.1 Topographic Characteristics

The Property is located between approximately 505 feet and 530 feet above mean sea level. Topography at the Property slopes moderately towards the southwest. Adjacent properties are similar in elevation to the Property. Storm water runoff in the area of the Property will enter numerous storm water catch basins located in streets and alleys around the Property.

3.2.2 Soil, Geologic, and Hydrogeologic Characteristics

According to the information provided in the United States Department of Agriculture *Soil Survey of Hamilton County, Ohio* (1982), soils in the area of the Property consist of Urban land-Martinsville complex, 3-8 percent slopes (UmB). UmB consists of Urban land and a gently sloping, well-drained, Martinsville silt loam on outwash plains. The Urban land part of the complex is covered by streets, parking lots, buildings, and other structures which obscure or alter the native soils. Martinsville soils consist of a surface layer of friable silt loam, a subsoil consisting of friable silty clay loam, firm clay loam and firm sandy clay loam; and a substratum to a depth of approximately 60 inches of stratified loam, sandy clay loam, and sandy loam. Permeability is moderate. A copy of the soil survey map for the Property is included as Figure 7.

Historical records indicate that a previous well located on-site had been installed to 98 feet (Wimberg, 1989). No additional property-specific geologic data was available from the sources reviewed.

4.0 PREVIOUS INVESTIGATIONS

Previous environmental reports and building/architectural plans available for the Property were provided to ATC by Hudepohl Square LLC.

One environmental report was available for review: "Asbestos Material Survey @ Hudepohl Bldg. 801 W 6th Street," prepared by Keen and Cross Environmental Services, Inc., dated May 18, 2005. According to Mr. Sy Safi with GCCM Construction Services, the report pertains to one of the former on-site demolished buildings. The report indicated that the following asbestos-containing material was identified in the building and required removal prior to demolition: thermal system insulation, fire doors, and "transite" pieces. A copy of the report is included in Appendix D.

Hudepohl Square LLC provided ATC with available building plans and architectural drawings of the various portions of the Property completed at various years. Most plans were associated with various building and expansion projects related to the Hudepohl plant. The sets of plans and drawings provided were not a complete or comprehensive record of previous building activities at the Property. Maps indicate that bottle washing operations included use of caustic soda. Available maps show caustic use only in the west adjacent building (i.e., Building 6). Detailed information obtained from the plans is summarized in Table 1. Copies of plans showing past Property uses are included in Appendix D.

5.0 OPERATIONAL AND ENVIRONMENTAL HISTORY REVIEW

5.1 Property

The Property was previously used as a brewery for almost 150 years. Beer is produced by the fermentation of grains and other adjutants. The brewing process generally consists of the steps outlined below (International Finance Corp., 2007).

- Raw materials may include malted barley, rice, corn or other grains.
- The grains are milled and mixed with hot water to form "mash."
- The liquid "wort" is separated from the mash. The mash solids are an organic waste.
- Hops are added to the wort and the wort is boiled.
- Residual solids are removed from the wort and the wort is cooled.
- Yeast is added to the cooled wort and the wort is fermented in tanks to make beer.
- The beer is aged in tanks for several weeks.
- The aged beer is processed and bottled.
- Ancillary processes include bottle washing, pasteurization, labeling, and packaging.

5.1.1 Chronological Historical Use of the Property

The history of the Property was drawn primarily from a review of:

- historical Sanborn Fire Insurance Maps (1887-1981) available from Environmental Data Resources, Inc. (EDR) and the Public Library of Cincinnati and Hamilton County (Public Library) and additional historical maps available from the Public Library (1883-84),
- historical aerial photographs (1932-2006) on file at the Hamilton County Engineer's office, Hamilton County Soil Conservation Service, and Ohio Department of Transportation,
- Hamilton County Auditor's records, property deed and lease records (1900-present) on file at the Hamilton County Recorder's office,
- historical street directory records (1923-2005) available at the Public Library,
- building plans/drawings provided to ATC by Hudepohl Square and on file with the Cincinnati Buildings and Inspections Department, and
- other sources available at the Public Library.

Historical plans and maps are provided in Appendices D and E. Copies of aerial photographs are included in Appendix F. Hamilton County Auditor's records are included in Appendix G. City Directory records are summarized in Appendix H. Composited historical data are summarized in Table 1.

Fire Insurance Maps

Fire insurance and historical maps for the Property were available for the years 1883-84, 1887, 1891, 1922, 1930, 1934, 1950, 1961 and 1981. The following are descriptions and interpretations from the map reviews. Documentation is included in Appendix E.

FIRE INSURANCE MAP SUMMARY	
Year	**Comments**
1883	**Property**: H. Lackman United States Brewery, residences (northeast corner and west side)
1887	**Property**: H. Lackman United States Brewery (kilns on east side), residences (northeast corner and west side)
1891	**Property**: H. Lackman United States Brewery (kilns on east side, boilers at southeast), residences (northeast corner and west side)
1922	**Property**: Lackman Brewery
1930 1934	**Property**: Niser Ice Cream Company (boilers on east, engine house southeast), residences (northeast corner)
1950	**Property:** Hudepohl Brewing Co. Plant No. 2 (boiler/engine houses and repair shops on east)
1961	**Property:** Hudepohl Brewing Co. Plant No. 2 (boiler/engine houses and repair shops on east)
1981	**Property:** Hudepohl Brewing Co. Plant No. 2 (boiler/engine houses and repair shops on east)

Aerial Photographs

ATC reviewed available aerial photographs of the Property and surrounding areas for years ranging from 1932 to 2006. The following are descriptions and interpretations from the aerial photograph review. Copies of aerial photographs are included in Appendix F.

AERIAL PHOTOGRAPH SUMMARY		
Year	**Scale**	**Comments**
1932 1938	1 in. ~ 450 ft. 1 in. ~ 280 ft.	**Property:** Property completely occupied by several apparent industrial buildings and possible residential structures.
1948 1950 1956	1 in. ~ 200 ft. 1 in. ~ 350 ft. 1 in. ~ 250 ft.	**Property:** Property completely occupied by several apparent industrial buildings.
1963	1 in. ~ 400 ft.	**Property:** Property completely occupied by several apparent industrial buildings.
1975 1981	1 in. ~ 350 ft. 1 in. ~ 250 ft.	**Property:** Property completely occupied by several apparent industrial buildings.
1986 1996	1 in. ~ 500 ft. 1 in. ~ 180 ft.	**Property:** Property completely occupied by several apparent industrial buildings.
2006	1 in. ~ 180 ft.	**Property:** The current buildings are present on-site. Buildings 2, 3, 8 and 9 are demolished. Three ASTs are located in the open area of former Building 2.

Recorded Land Title Records

ATC researched land title records, leases and liens on file with the Hamilton County Recorder's office and Auditor's office. No environmental liens, activity and use limitations (AULs), or property use restrictions were listed for the Property in the Recorder's records reviewed by ATC. The Property consists of two portions. The northeast portion of the Property, currently occupied by Building 1, was a separate parcel prior to 1936. The "main" portion of the Property consists of the remainder of the property and corresponds to the original Lackman brewery property.

OWNERSHIP SUMMARY				
Parcel	**Grantee**	**Grantor**	**Book/Page**	**Date Acquired**
Entire Property	Hudepohl Square LLC	The Keene Group Inc.	9770 / 868	10/29/2004
	The Keene Group Inc.	Patricia A. Osborne	9232 / 4251	2/9/2003
	Herman Wesley Cushman	Patricia A. Osborne	8836 / 2601	2/22/2002
	Hudepohl Brewing Co. (lease for signage)	Patricia A. Osborne (leasor)	5048 / 486	(7/14/1989)
	Patricia A Osborne	Hudepohl Brewing Co.	5048 / 449	7/10/1989
	Stone Street Vacated	City of Cincinnati	3437 / 951	7/8/1965
	Carlisle Avenue Vacated	City of Cincinnati	3359 / 629	1964
Main Parcel	Hudepohl Brewing Co.	Sohn Brewing Co.	1677 / 280	3/5/1935
	Sohn Brewing Co.	Niser Ice Cream Co.	1640 / 670	7/6/1933
	Niser Ice Cream Co.	Herman W Lackman estate	1543 / 309	7/10/1929
	Niser Ice Cream Co.	Herman W. Lackman	1364 / 405	1/10/1925
NE Parcel	Hudepohl Brewing Co.	Louis Steinberg	1730 / 600	11/28/1936
	Louis Steinberg	Jacob and Liba Noiman	1715 / 647	6/22/1936
	Jacob and Liba Noiman	The Central Trust Co.	1715 / 127	6/22/1936
	The Central Trust Co.	Max Steinberg et al.	1706 / 434	3/23/1936
	Jacob Steinberg	Max Steinberg	1434 / 380	12/19/1927
	Louis I & G Neman	Max & Jacob Steinberg	1406 / 509	2/17/1927

The area of the Property was platted in June 1855 as part of Hathaway's Estate. The subject Property was platted in 1900 as The Herman Lackman Brewing Co. Herman Lackman sold the main portion of the Property to the Niser Ice Company in 1925 which then transferred title to the Sohn Brewing Co. in July 1933.

The Sohn Brewing Company likely never utilized the Property as evidenced by 21 mechanics liens filed in November 1933 by various equipment and construction companies. One company filing a lien of potential interest was the Hauser Stander Tank Company. Based on 1935 maps of the Property supplied by GCCM Construction services, tanks installed by the Hauser Stander Tank Company were likely beer processing tanks and not of environmental concern.

The bankrupt Sohn Brewing Company transferred title to the Hudepohl Brewing Company in 1935. The northeast corner of the Property was owned by private individuals until purchased by Hudepohl in 1936.

The Property was held by private individuals from 1989 until 2003 when it was acquired by The Keene Group Inc. who sold it to the current owner, Hudepohl Square LLC in 2004. Recorder's and Auditor's information, copies of property deeds, and a copy of the 1900 plat map are included in Appendix G.

City Directories

ATC reviewed historical city street directories available at the Public Library of Cincinnati and Hamilton County. Directories were reviewed in approximate five-year increments from 1923 through 2005. Historical Property addresses were researched as follows: 801 - 825 West Sixth Street, 505 Gest Street, Stone Street, and 800 - 820 Carlisle Avenue. Adjoining addresses were also reviewed. A complete listing of city directory records is included in Appendix H. City directory records are summarized below.

CITY DIRECTORY SUMMARY	
Year	**Comments**
1923	**Property**: Residences (northeast corner)
1927-28	**Property**: Niser Ice Cream Co., malted milk manufacturer, residences (northeast)
1930-31	**Property**: Niser Ice Cream Co., warehousing, dairy products, residences (northeast)
1935	**Property**: Niser Ice Cream Co., residences (northeast)
1940	**Property**: Hudepohl Brewing Co., residences (northeast)
1944	**Property**: Hudepohl Brewing Co., vacant (northeast)
1949	**Property**: Hudepohl Brewing Co.
1953-54	**Property**: Hudepohl Brewing Co.
1958	**Property**: Hudepohl Brewing Co.
1962	**Property**: Hudepohl Brewing Co.
1967, 1972, 1977, 1982, 1987	**Property**: Hudepohl Brewing Co.
1991	**Property**: vacant
1996, 2000, 2005	**Property**: not listed

The Property was historically occupied by an ice cream manufacturer in the 1920s and early 1930s. The Hudepohl Brewing Company occupied the Property from the late 1930s until 1987 after which the Property was unoccupied. Surrounding areas were mixed, residential, commercial and light industrial in the early part of the 1900s with increasing commercial use of the surrounding area towards the end of the century.

Building Department Records

ATC reviewed historic plans and permits on file with the Cincinnati Division of Buildings and Inspections. Records indicate that the Hudepohl Brewing Company occupied the Property and the surrounding properties to the east, south and west in 1984. The on-site buildings were utilized as boiler/engine houses, machine shops, brew houses, storage cellars, racking, bottling, and shipping/receiving. The boilers were apparently fired by coal in 1984 as coal chutes are depicted along the east side of the Property in 1984. The records indicate that unspecified on-site buildings were demolished in 1995-1997 and 2005-2006. Cincinnati records are discussed further in Section 5.1.3.

Other Historical Sources

A review of the Public Library of Cincinnati and Hamilton County's newspaper index identified local articles for the Hudepohl plant of historical significance. The records indicate that the current "new" boiler house and smoke stack were constructed in the early 1940s on the site of former residential property. The plant underwent several phases of expansion and redevelopment from the 1930s through 1980s. The plant closed in 1987. The records show that a roofing structure formerly located in Yard A caught fire in 1998.

ATC also reviewed information regarding the former on-site Lackman Brewery plant. According to Cincinnati Breweries (Wimberg, 1989), the Herman Lackman Brewing Co. (aka United States Brewery) operated a beer brewery at the Property from 1860 to 1919. The brewery included five water wells (one at least 98 feet deep), a mill house, brewery, and engine/boiler house.

Summary of Historical Land Use of the Property

The Property was occupied by a brewery from 1860 until 1919. In the mid to late 1920s the Property was utilized primarily as an ice cream factory with minor use for warehousing and milk product processing. The Hudepohl Brewing Company acquired the Property in 1935 and operated a brewery until 1987 after which the facility remained vacant except for minor use for storage. The facility supplied its own electricity from on-site steam-powered generators located in various on-site buildings at various times since the late 1800s. No on-

site USTs were identified during the historical review. Process chemical usage included caustic soda for bottle cleaning and ammonia associated with on-site refrigeration. The history of the Property is summarized below.

HISTORICAL SUMMARY			
Dates	Northeast Corner (Building 1)	Central Area	West End (Building 5)
1860-1891	residential	Herman Lackman Brewery	residential
1891-1919	Herman Lackman Brewery		residential
1919-1925	vacant		residential
1925-1933	Niser Ice Cream Co.		residential
1933-1935	Sohn Brewing Co.		residential
1935/36-1989	Hudepohl Brewing Co.		
1989-present	vacant		

5.1.2 Environmental Regulatory Compliance History of the Property

Federal, state, and local regulatory agency records were reviewed to identify the reported use, generation, storage, treatment, disposal or release of regulated hazardous substances and/or petroleum products on the Property. Federal and state environmental records were provided by Environmental Data Resources, Inc. of Southport, Connecticut (EDR). Although EDR did request the regulatory agencies for updates of all databases it searched for this assessment within a 90-day time period, several of the regulatory agencies had not, themselves, updated their databases. The EDR report includes a search of databases not required by the VAP standard. These additional database records were noted if records pertinent to the Property were listed. A complete list of databases is included in the EDR report. A copy of EDR's report is contained in Appendix I.

Federal Database Records

The following VAP-required federal database lists provided by EDR were specifically reviewed for the Property:

SUMMARY OF FEDERAL AGENCY DATABASE FINDINGS	
Regulatory Database	**Property Listed?**
National Priority List (NPL)	No
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list	No
CERCLIS No Further Remedial Action Planned (NFRAP)	No

Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS)	No
RCRA non-CORRACTS Treatment, Storage, and Disposal (TSD) facilities list	No
RCRA Hazardous Waste Generators list	No
Emergency Response Notification System (ERNS) list	No

The Property was not identified in any of the standard federal databases reviewed.

State Database Records

The following VAP-required state database lists provided by EDR were specifically reviewed for the Property:

SUMMARY OF STATE AGENCY DATABASE FINDINGS	
Regulatory Database	**Property Listed?**
Ohio Division of Emergency and Remedial Response (DERR)	No
Ohio Spills Database	No
Ohio Leaking Underground Storage Tanks (LUST)	No
Ohio Registered Underground Storage Tanks (UST)	No
Ohio Licensed Solid Waste Facilities	No

The Property was not identified in any of the standard state databases reviewed.

5.1.3 Regulatory File Review

Environmental records for the Property were requested by letter, fax or e-mail from the following agencies: U.S. EPA Region 5, Ohio EPA Southwest District, Ohio Bureau of Underground Storage Tank Regulations (BUSTR), Hamilton County Local Emergency Planning Committee (LEPC), Cincinnati Fire Department, Cincinnati Health Department, Cincinnati Office of Environmental Quality, and Cincinnati Division of Buildings and Inspections. Agencies were asked to supply information for the Property based on the addresses 801 to 827 West Sixth Street, 800 to 824 West Fifth Street and 505 Gest Street. Copies of requests and agency responses are included in Appendix I.

U.S. EPA Records

ATC contacted the US EPA's Region 5 regarding records of environmental involvement at the Property. No records pertaining to the Property were on file with the USEPA under the Air and Radiation Division, Land and Chemicals Division, or Superfund Division.

Ohio EPA Records

ATC contacted the Ohio EPA's Southwest District Office (OEPA) regarding records of environmental involvement at the Property. No records pertaining to the Property were on file with the OEPA's Southwest District Office.

Ohio BUSTR Records

ATC contacted the Ohio Bureau of Underground Storage Tank Regulations (BUSTR) regarding the presence of the Property on the state UST or LUST lists. No records of USTs or LUSTs at the Property were on file with BUSTR.

Hamilton County LEPC Records

ATC contacted the Hamilton County LEPC regarding records of past spills or hazardous material/petroleum inventory reports for the Property. The LEPC has not yet responded to ATC's request. Upon receipt, ATC will forward any significant information as an addendum.

Cincinnati Health Department

ATC contacted the City of Cincinnati Health Department regarding potential records of environmental violations or involvement at the Property. Mr. Rick Thornburg with the Health Department indicated that The health department has no records of complaint on file for the Property. One record of a water well was on file. Mr. Thornburg indicated that well was reportedly out of use. No date for the record was available and no additional data was available regarding the well. Health department personnel reportedly attempted to locate the well approximately 15 years ago but did not find it. Documentation of ATC's correspondence with Mr. Thornburg is provided in Appendix K.

Cincinnati Fire Department

ATC contacted the City of Cincinnati Fire Department to access records of potential on-site USTs, ASTs, or spill responses. The Fire Department provided a copy of one incident recorded in their database. The incident, dated June 8, 2007, was listed under the 800 West Fifth Street address and was in response to a sprinkler activation caused by a forklift accident. The address and the fact that a forklift was involved suggests that the incident occurred at the south adjacent warehouse (former Hudepohl warehouse). No records of spill responses or tank registrations were provided.

Cincinnati Building Department

ATC reviewed plans on-file with the City of Cincinnati Division of Buildings and Inspections for evidence of past property use and development. Review of the documents on-file indicated that the Hudepohl Brewing Company occupied the Property and the surrounding properties to the east, south and west in 1984. The on-site buildings were utilized as boiler/engine houses, machine shops, brew houses, storage cellars, racking, bottling, and shipping/receiving. The boilers were apparently fired by coal in 1984 as coal chutes are depicted along the east side of the Property on a map dated 1984. A permit was issued for removal of equipment from partial demolition of building walls in 1988. Beer storage tanks were removed from on-site buildings from 1994 through 1997. Tank removal also required partial demolition of existing buildings. The records indicate that fires had occurred at the Property in 1995 and 1996 (smoldering cork). Unspecified on-site buildings were demolished in 2005-2006. Copies of the Building Department records are included in Appendix J.

5.1.4 Interviews

ATC interviewed Mr. Sy Safi with GCCM Construction Services, LLC (the owner's representative) regarding property operations and history. Mr. Safi has had limited involvement with the Property for approximately 4 years. Pertinent information from the interview is discussed in applicable sections of this report and is documented by Record of Communication forms located in Appendix K.

5.1.5 Reconnaissance of Property

Property reconnaissance for the Phase I Property Assessment was conducted by Mr. William Norris, an ATC Project Geologist, on August 26, 2009. Mr. Norris was accompanied by Mr. Sy Safi with GCCM Construction Services, LLC during the reconnaissance. Additional reconnaissance was conducted on September 24, 2009.

At the time of the August inspection the weather was warm, dry, and clear. Weather was drizzly and warm during the September visit. Building exteriors were observed along the perimeter from the ground. Building interiors were observed as they were made safely accessible. The Property was without electricity and portions of the buildings, including basement areas had to be inspected using flashlights. Access to some areas was also limited by barricaded doorways and unsafe stairs and passages. Areas not inspected included the third floor of Building 5 and the sub-basement cellars below Buildings 2, 3, 8, 9, 10 and 11.

Specific emphasis was made during reconnaissance with regards to the presence or former presence of underground storage tanks (USTs), above-ground storage tanks (ASTs), electrical (or other) equipment which could contain polychlorinated biphenyls (PCBs), product and waste accumulation, storage, and handling areas, areas showing physical evidence of impact (e.g., staining, stressed vegetation, etc.), utilities (which could act as conduits for potential contaminant migration to or from a property), and physical evidence of potential impact around the Property perimeter from adjacent properties. Photographic documentation of Property reconnaissance is provided in Appendix L.

General Property Setting

The Property is located in a commercial area of Cincinnati, Hamilton County, Ohio. Local surface topography slopes moderately to the southwest.

Hazardous Substance Use, Storage, and Disposal

The Property is currently vacant. No hazardous substances are currently used, generated or disposed at the Property. Residual 55-gallon drums and smaller containers of maintenance

materials and chemicals were observed at several locations at the Property particularly in Buildings 1 and 5. Empty containers of various types were also noted throughout the Property. A portion of the containers were unlabeled or the labels illegible. However, their appearance and association with other containers were indicative that they contained maintenance-type materials. Evidence of on-site disposal of chemicals or chemical containers was not observed. Residual chemical containers are summarized below.

RESIDUAL CHEMICAL/MATERIAL INVENTORY			
Chemical/Material	**Approx. Quantity**	**Location**	**Condition**
Paints	3 pallets of 1- and 5-gal. cans	Building 1: 1st floor	Good
Lubricants, maintenance materials	55-gal. drums: 7 30-gal. or less: > 12	Building 1: 2nd and 3rd floors	Fair to poor, localized floor staining
Boiler water treatment	55-gal. drums: 3 50 lbs bags: 11	Building 1: 3rd floor	Poor, floor staining and corrosion
Unknown (possibly filter sand)	~300 gallons	Building 1: 3rd floor	Orange sand from mechanical tank spilled on floor
Lubricants, maintenance materials	30- to 55-gal. drums: 6	Building 5: basement	Fair, localized floor staining
Lubricants, maintenance materials	55-gal. drums: 11 30-gal. or less: ~12	Building 5: 3rd floor	Fair to poor, localized floor staining
Propane	5-gal. cylinders: 4	Building 10: 1st floor	Good
Ash/cinders?	unknown	Building 11: basement	Gray, granular material in broken bin below boiler
Propane	5- to 24-gal. cylinders: 4	Yard A	Good
Kerosene	5-gal. can: 1	Yard A	Good
Miscellaneous	5-gal. buckets: 4	Yard A	Poor, may be empty
Gasoline	3-gal. can: 1	Yard A	Good
"Flammable"	~300-gal. rubber bladder bags: 4	Yard A	Empty, fitted with hose connections and hooks, possibly used in beer production

A large conical metal bin, possibly formerly used to store coal or ash, was suspended above the ground level at the southeast corner of Building 1 (former boiler house). The bottom of the bin was open and evidence of residual material inside the bin was not noted.

Concrete floors throughout the facility were generally discolored from heavy use and age. Light to heavy staining was observed in some areas, particularly Buildings 1, 5 and 11. Stains and residual accumulations of material were noted around many drums/containers and around some equipment and former equipment pads. The concrete floors were generally intact and free of cracks. However, floors were penetrated by pits, floor drains, and joints between slabs. It should be noted that the lower most levels of the Property (i.e., sub-basement cellars) were not accessible for inspection.

Underground Storage Tanks (USTs)

ATC did not observe evidence of current or historic USTs on the Property. No fill ports or vent pipes or other evidence of such were observed. Mr. Safi was not aware of any USTs at the Property.

Aboveground Storage Tanks (ASTs)

Several tanks were noted in the Buildings 1 and 11 associated with mechanical systems. Presumably these tanks contained air or water. Two aboveground storage tanks not apparently associated with mechanical/boiler systems were observed. One portable approximately 300-gallon AST was located in Yard A. A partial red diamond-shaped label ("_203" and "3") suggests that the AST was used to store gasoline. Both ASTs appeared in fair condition. Evidence of odors, staining, and/or leakage was not observed associated with the AST located in Yard A. One approximately 275-gallon steel AST was located in the basement of Building 1. The tank appeared empty or nearly empty and its contents are unknown. Piping was observed extending from the AST but the piping was not connected to any equipment. Given its proximity to mechanical/boiler systems, it is probable that the AST was used in conjunction with these systems. Poor lighting conditions and ground clutter in the basement of Building 1 precluded observation of stains or leaks associated with this AST.

Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) are a toxic chemical component of dielectric fluids, coolants or lubricating oils used in many electrical transformers, light ballasts, capacitors or other similar equipment manufactured prior to 1979.

Fluorescent lights were observed throughout the Property. The light ballasts were not closely observed but ranged from fair to poor condition. Based on the construction date of the buildings (1961 or earlier), PCB-containing light ballasts may be present.

Mini-transformers associated with outdoor advertising signs were noted on the roof of Building 1. The transformers were in poor to damaged condition and were generally lying

scattered on the surface of the roof below the sign. It was not clear whether the transformer units contained dielectric fluids; no staining was apparent around damaged units.

No hydraulic elevators were identified at the Property.

Although historic records indicate that the facility previously generated its own electricity, no electric generators or associated electrical equipment were observed at the Property.

No transformers were observed inside the on-site buildings. Three pole-mounted transformers were observed along West Sixth Street northwest of the Property. One pad-mounted transformer was located on the east exterior of Building 1. All four transformers were in good condition and labeled as "non-PCB."

Nonhazardous Solid Waste

No solid waste is currently generated at the Property. Numerous residual open-topped drums on-site contained apparent solid waste materials. No evidence on-site disposal of solid waste was apparent.

Wastewater

Wastewater previously generated and discharged from the Property included sanitary sewage and stormwater. Although the brewing process generates process wastewater, no treatment system for process water discharge was apparent.

Historical records from 1935 provided by Hudepohl Square LLC indicate that a "drainage cistern" was present in the lowermost beer storage cellar of Building 3. The cistern was located in a niche in the wall at the southwest corner of the building. The current status of the drainage cistern could not be verified although the location is close to the location of a current sump or well observed at the southeast corner of Building 4 (see below).

Historical records from 1974 indicate that sewer discharge points for the Property were located along West Sixth Street (one point from Building 3), former Stone Street (two points from Buildings 1 and 11), and former Carlisle Avenue (four points from Buildings 5 and 9 and

Yard A). The discharge points along the former Stone Street and Carlisle Avenue apparently enter a common private sewer line that extends along Carlisle Avenue and discharges towards the southwest into a public sewer located along West Fifth Street.

Waste Pits, Ponds and Lagoons

ATC did not observe evidence of waste pits, ponds or lagoons on the Property.

Sumps/Wells

ATC observed two large water pumps on the lower levels of Buildings 1 and 4. Both pumps were located in the southeast corners of the respective buildings. It was not clear by visual observation whether the pumps were associated with groundwater wells or sumps. Historical records indicate that a pump house was formerly located at the southeast corner of Building 1 prior to its construction in 1946 suggesting that the observed pump is for a groundwater well. Maps of the Property dated 1935 also indicate that a "drainage cistern" (apparently a sump) was present in the lowermost beer storage cellar of Building 3. The cistern is shown in a niche in the wall at the southwest corner of the building proximal to the southeast corner of Building 4. The proximity of the historic drainage cistern and the current pump suggests that the pump location functions as a sump.

Septic Systems

ATC did not observe evidence of a septic system on the Property.

Stormwater

Storm water runoff from the Property will either enter the public storm water system via stormwater catch basins located along West Sixth Street and Stone Street, drain towards adjacent properties to the south via overland flow, or seep into underlying soils by infiltration through cracks and openings in on-site pavement.

Asbestos-Containing Material (ACM)

Previous investigation at the Property identified asbestos-containing thermal system insulation (TSI) and "transite" associated with a building demolished in approximately 2005. These materials were apparently abated prior to building demolition. However, such materials were noted in remaining buildings on-site. Visual inspection of the Property by Mr. Norris (Ohio Asbestos Hazard Evaluation Specialist #ES32648) identified several types of suspect ACMs including: pipe TSI, boiler TSI, mechanical system tank TSI, plaster, floor tile and mastic, ceiling tile, cork insulation mastic, dry wall and joint compound systems, cooling tower transite paneling, roofing, and miscellaneous material and debris. Observed suspect materials were noted to be in fair to severely damaged condition at the time of the Property inspection and constitute a potential release to the environment. Given the presence of large openings in the walls due to previous demolition activities, damaged suspect materials could potentially be released to exterior areas.

Lead-Based Paint (LBP)

Based on the age of the Property buildings (1961 and earlier) LBP may be present on painted surfaces throughout the facility. Observed painted surfaces were in poor (i.e., peeling and flaking) to good condition. Paint flakes were noted on floors at several locations throughout the Property. Formerly interior painted surfaces have been exposed to the exterior due to previous demolition activities. Residual painted demolition debris was also observed in exterior areas of the Property. As such LBP constitutes a potential release to the environment.

5.2 Surrounding Properties

Reconnaissance of surrounding properties consisted of visual and/or physical observations of the adjoining sites as viewed from the Property, and the surrounding area based on general visual observations made from public right-of-ways. Given the large number of businesses present in the area, no attempt was made to document all businesses in the surrounding area (defined as the area located within 2,000 feet of the Property). The businesses located adjacent to the Property were documented. Sites of potential

environmental concern in the surrounding area were identified by a review of regulatory databases provided by EDR.

The Property is located in a predominantly commercial area of Cincinnati. The Property is bordered on the north by West Sixth Street beyond which are a parking lot, green space, and an entrance ramp for U.S. Route 50. U.S. 50 lies further north, beyond which are commercial properties. Cincinnati Belt and Transmission (CBT), a distributor of conveyor and automation systems, lies to the east and south. Areas further east consist of commercial businesses. The CBT warehouse to the south of the Property is bordered on the south by West Fifth Street beyond which are commercial businesses. The buildings west of the Property are used for warehousing. Further west is a building complex used as a jail, followed by Linn Street. Railroad tracks lie west of Linn Street. Surrounding properties are shown in Figure 2a.

No obvious physical evidence of potential environmental impact to the Property from adjacent or nearby properties was observed during ATC's reconnaissance. No active landfills, active gasoline service stations, waste or chemical storage areas, staining, or other areas of obvious environmental concern were noted adjacent to the Property. None of the unmappable sites identified in EDR's database information were identified in the immediate vicinity of the Property.

5.2.1 Environmental Regulatory Compliance History of Surrounding Properties

Chronological Historical Use of Surrounding Properties

The history of the surrounding properties was drawn from a review of historical Sanborn Fire Insurance Maps (1887-1981), historical aerial photographs (1932-2006), and historical street directory records (1923-2005) as referenced in Section 5.1.1.

Fire insurance and historical maps were available for the years 1883-84, 1887, 1891, 1922, 1930, 1934, 1950, 1961 and 1981. Documentation is included in Appendix E.

FIRE INSURANCE MAP SUMMARY	
Year	**Comments**
1883	**Surrounding Area**: Lumber yard (north), commercial/residential (south/west)
1887	**Surrounding Area**: commercial/residential (south/west)
1891	**Surrounding Area**: Lumber yard (north), commercial/residential (south/west)
1922	**Surrounding Area**: commercial/residential
1930 1934	**Surrounding Area**: Garage/lumber yard (north), junk dealer (east), garage/warehouse with gasoline USTs (east), commercial/residential (south/west)
1950	**Surrounding Area**: Hudepohl Brewing Co./commercial (west), parking lot/ vacant commercial (north), junk dealer (east), garage/warehouse with gasoline USTs (east), residential/bottling works (south)
1961	**Surrounding Area**: Hudepohl Brewing Co./commercial (west), residential/ warehouse (south)
1981	**Surrounding Area**: Hudepohl Brewing Co. (south, west, and east), highway (north)

Fire insurance maps indicate the surrounding area was historically mixed residential, commercial and industrial use. A junk dealer was located on the east adjacent property (i.e., southeast corner of West Sixth Street and Stone Street) in 1934 and 1950. The junk dealer occupied a relatively small one- and two-story building without a yard. Given the small size of the operation (i.e., not a scrap or salvage yard), the junk dealer is not considered an environmental concern.

A lumber yard was located on the north adjacent property from at least 1883 to 1934. It is possible that the lumber yard conducted wood treating operations and as such is a potential environmental concern.

A freight warehouse/garage was located further east of the junk dealer in 1934 and 1950. Four gasoline USTs (two on each map at different locations) are depicted on the west side of the warehouse facility, the nearest UST is situated approximately 60 feet east of the Property. The USTs are located in an area which is currently occupied by the CBT warehouse building. Given that the USTs are located east of the Property and potentially up-gradient, their distance to the Property (i.e., less than 100 feet), and that no record of UST closure is apparently on file with BUSTR, the historical presence of USTs east of the Property is a potential environmental concern.

A warehouse (Kruse Hardware) was located approximately 150 feet west of the Property in 1950 and 1961. The maps indicate that a gasoline UST was located at the warehouse approximately 210 feet west of the Property proximal to West Sixth Street. Regulatory records indicate that a UST was removed from the Kruse Hardware facility and given a

status of No Further Action in 2000 (see below). Given the apparent down-gradient direction of the UST from the Property and the regulatory status of the Kruse Hardware facility, the UST is not considered an environmental concern.

ATC reviewed available aerial photographs of the Property and surrounding areas for years ranging from 1932 to 2006. Copies of aerial photographs are included in Appendix F.

AERIAL PHOTOGRAPH SUMMARY		
Year	**Scale**	**Comments**
1932 1938	1 in. ~ 450 ft. 1 in. ~ 280 ft.	**Surrounding Area**: The area is highly urbanized with mixed residential and commercial buildings.
1948 1950 1956	1 in. ~ 200 ft. 1 in. ~ 350 ft. 1 in. ~ 250 ft.	**Surrounding Area**: The area is highly urbanized with mixed residential and commercial buildings. Industrial buildings to west. Parking lot to north.
1963	1 in. ~ 400 ft.	**Surrounding Area**: Industrial properties are located south and west. A parking lot is located east. A highway is under construction to the north. Carlisle Avenue is not present to the south.
1975 1981	1 in. ~ 350 ft. 1 in. ~ 250 ft.	**Surrounding Area**: Industrial properties are located south and west. A parking lot is located east. A highway is located to the north.
1986 1996	1 in. ~ 500 ft. 1 in. ~ 180 ft.	**Surrounding Area**: Industrial properties are located east, south and west. A highway is located to the north.
2006	1 in. ~ 180 ft.	**Surrounding Area**: Industrial properties are located east, south and west. A highway is located to the north.

Aerial photographs indicate that the surrounding area has historically been mixed residential, commercial and industrial. Specific facility uses or potential environmental issues could not be discerned from the available photographs.

Historical city street directories were reviewed in approximate five-year increments from 1923 through 2005. A complete listing of city directory records is included in Appendix H.

CITY DIRECTORY SUMMARY	
Year	**Comments**
1923	**Surrounding Area**: North: residences, lumber yard; Northwest: machinery manufacturing; East: rag recycling, grocery, stables; South: no listing; West: residences (adjacent), commercial, machinery, tools and auto parts manufacturing
1927-28	**Surrounding Area**: North: residences, baking company, lumber yard; Northwest: machinery manufacturing; East: junk dealer, garage, grocery, stables; South: residences, restaurant; West: residences (adjacent), commercial, warehousing, tool manufacturing
1930-31	**Surrounding Area**: North: residences, baking company, lumber yard; Northwest: machinery manufacturing; East: junk dealer, grocery, stables; South: residences, restaurant; West: residences (adjacent), commercial, warehousing, tool and auto parts manufacturing
1935	**Surrounding Area**: North: residences, baking company, offices, lumber yard; Northwest: machinery manufacturing; East: junk dealer, grocery, cooperage; South: residences; West: residences, commercial, warehousing

CITY DIRECTORY SUMMARY	
Year	**Comments**
1940	**Surrounding Area**: North: residences, warehousing, lumber yard; Northwest: machinery manufacturing; East: junk dealer, grocery, warehousing/freight line; South: residences; West: residences, commercial, warehousing
1944	**Surrounding Area**: North: residences, warehousing, lumber yard; Northwest: machinery manufacturing; East: junk dealer, grocery, warehousing/freight line; South: residences; West: commercial, warehousing
1949	**Surrounding Area**: North: residences; Northwest: machinery manufacturing; East: junk dealer, grocery, warehousing/freight line; South: residences, bottling company; West: commercial, warehousing
1953-54	**Surrounding Area**: North: residences, parking lot; Northwest: machinery manufacturing; East: junk dealer, grocery, warehousing/freight line; South: residences, bottling company; West: commercial, warehousing
1958	**Surrounding Area**: North: residences, parking lot; Northwest: machinery manufacturing; East: junk dealer, grocery, warehousing/freight line; South: residences, bottling company; West: Hudepohl Brewing Co., warehousing
1962	**Surrounding Area**: North: parking lot; Northwest: machinery manufacturing; East: junk dealer, warehousing; South: commercial, residences; West: Hudepohl Brewing Co., warehousing
1967, 1972 1977, 1982 1987	**Surrounding Area**: North: not listed; East: Hudepohl Brewing Co., commercial; South: not listed; West: warehousing
1991	**Surrounding Area**: North: not listed; East: Cincinnati Belt and Transmission, commercial; South: Hudepohl-Schoenling sales and marketing; West: vacant
1996, 2000 2005	**Surrounding Area**: North: not listed; East: Cincinnati Belt and Transmission, commercial; South: commercial; West: not listed

The surrounding area was historically used for mixed residential, commercial, and industrial purposes. Directory listings of potential concern include a junk dealer to the east (1923-1958), a machinery manufacturer to the northwest (1923-1962), manufacturing businesses to the west (1923-1930), and a garage/freight lines to the east (1927/1944-1958). According to Sanborn maps, the junk dealer occupied a relatively small one- and two-story building without a yard. Given the small size of the operation (i.e., not a scrap or salvage yard), the junk dealer is not considered an environmental concern.

A lumber yard was located on the north adjacent property from at least 1923 to 1944. It is possible that the lumber yard conducted wood treating operations and as such is a potential environmental concern.

Sanborn maps also indicate that the garage/freight line businesses to the east operated four gasoline USTs; the nearest UST was situated approximate 60 feet from the Property (see above). Given the historic presence of USTs at the garage/freight line businesses and their proximity/apparent up-gradient direction relative to the Property, they are considered a potential environmental concern. The manufacturing businesses to the northwest and west

were not located immediately adjacent to the Property (i.e., more than 100 feet from the Property) and are located in the apparent cross- or down-gradient direction. Given their distance and direction from the Property, they are not considered environmental concerns.

Historical Summary of Surrounding Properties

Review of available records indicates that the surrounding area was historically used for mixed residential, commercial and industrial purposes. Based on the available historic information, distances from the Property and/or apparent gradient relative to the Property past land usage of the surrounding area is not considered a concern except for two locations both of which are apparently upgradient of the Property.

Records indicate that a lumber yard was in operation on the north adjacent property from at least 1883 until 1944. It is possible that the lumber yard conducted wood treating operations and used hazardous chemicals as part of such operations. Given its apparent up-gradient direction and close proximity to the Property, the historic lumber yard is a potential environmental concern.

Records also indicate that a garage/freight warehouse operated approximately 50 feet east of the Property from approximately 1927 to 1958. Four gasoline USTs were present at the facility at various times and locations. The nearest UST was located approximately 60 feet from the Property. The CBT warehouse, built in 1984, currently occupies the location of the USTs.

Regulatory Database Records

Federal and state regulatory agency records were reviewed to identify the reported use, generation, storage, treatment, disposal or release of regulated hazardous substances and/or petroleum products in the area surrounding the Property (i.e., within one-half mile). Federal and state environmental records were provided by Environmental Data Resources, Inc. of Milford, Connecticut (EDR). Unmappable or orphan sites (those which were not able to be precisely located based on information in the database, but identified as being in the general area of the Property) were addressed during ATC's property reconnaissance.

Although EDR requested updates of all databases from the respective agencies less than 90-day time from the time the Property report was generated, several of the regulatory agencies had not, themselves, updated their databases within that 90-day period. A copy of EDR's report is contained in Appendix I.

The following federal database lists were specifically reviewed to search for sites within the area surrounding the Property (i.e., within one-half mile).

SUMMARY OF FEDERAL AGENCY DATABASE FINDINGS	
Regulatory Database	**Sites Listed**
National Priority List (NPL)	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list	1
CERCLIS No Further Remedial Action Planned (NFRAP)	3
Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS)	0
RCRA non-CORRACTS Treatment, Storage, and Disposal (TSD) facilities list	0
RCRA Hazardous Waste Generators list	19
Emergency Response Notification System (ERNS) list	22

The NPL is an EPA listing of private, state, and federally owned sites which have been included on the federal Superfund List for remediation. No properties within a one-half mile radius of the Property were referenced on the NPL.

The EPA's CERCLIS list is a compilation of sites that have been brought to the attention of the EPA, through various means, as being possible sites of hazardous waste activity. CERCLIS is an informational database and not necessarily an action list. One facility within a half-mile radius was referenced on the CERCLIS list. The 750 West Third Street site is located approximately 800 feet south-southeast of the Property. According to the EDR report, abandoned batteries and drums were identified in January 2004 and removed in February 2004. Based on the facility's distance from the Property and apparent cross-gradient location, the potential for site to impact the Property (relative to its CERCLIS status) is low.

NFRAP sites have been removed from CERCLIS and are sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. Three facilities were listed on the

CERCLIS-NFRAP list: Anchor White Lead company, Magnus company, and Dubois Chemical, all of which are between ¼ and ½ mile west or northwest of the Property. Based on their down- or cross-gradient locations relative to the Property, and the fact that no further remedial action is planned for the facilities, these CERCLIS-NFRAP database listings are not considered an environmental concern to the Property.

The EPA, RCRIS list includes selected information on sites that generate, transport, store, treat, or dispose of hazardous waste as defined by RCRA. Inclusion on the RCRIS list does not, in itself, imply an environmental concern to the Property. No treatment, storage or disposal (TSD) facilities, one large quantity generator (LQG) facility, 8 small quantity generators (SQG), and 10 exempt small quantity generator (CESQ) facilities were identified within 0.5 miles of the Property. Only two of the RCRIS-listed facilities are listed within 1/8 mile of the Property: United Parcel Service (UPS), 500 Gest Street, and Cinergy Corp. Queensgate Building, 424 Gest Street. Both sites are listed as SQG facilities with no reported RCRA violations. The UPS facility is located approximately 400 feet east-southeast of the Property. The Cinergy site is located approximately 500 feet southeast of the Property. Given the distance of these RCRA facilities from the Property, their lack of known violations, and their apparent cross-gradient direction relative to the Property, neither are considered an environmental concern to the Property. Given the distance of the remaining facilities relative to the Property, none of them are considered an environmental concern to the Property. RCRA listings are detailed in the EDR report provided in Appendix H.

A CORRACTS site is a RCRA Hazardous Waste Site undergoing corrective action due to soil or ground water contamination. No CORRACTS facilities were listed within one-half mile of the Property.

ERNS is a national database and retrieval system of incident-notification information, as initially reported, regarding incidents of reported releases of oil and hazardous substances. The information combines data from the United States Coast Guard National Response Center Database with data from the 10 EPA regions. Twenty-two sites were referenced on the ERNS database within one-half mile of the Property. Only one of the ERNS sites appeared to be located within 1/8 mile of the Property: 500 Gest Street (i.e., the UPS facility). On May 2, 2008, chloroform leaked from a 4 liter container inside a package in a tractor trailer. The spill was cleaned up by a private contractor. Based on the small quantity involved and the fact that the

spill was cleaned up, the potential for the incident to have impacted the Property is low. Given the distance of the other spills from the Property, none are considered to be an environmental concern to the Property.

The following state lists and/or files were reviewed to search for sites within the area of the Property:

SUMMARY OF STATE AGENCY DATABASE FINDINGS	
Regulatory Database	**Sites Listed**
Ohio Division of Emergency and Remedial Response (DERR)	1
Ohio Voluntary Action Program (VAP) Sites	1
Ohio Spills Database	32
Ohio Leaking Underground Storage Tanks (LUST) & Unregulated USTs	31
Ohio Registered Underground Storage Tanks (UST)	29

The DERR list is a compilation of identified or suspected hazardous waste sites. One DERR-listed facility was identified within 0.5 mile of the Property: Magnus Company, 1029 West 7th Street. This facility has undergone cleanup under the Ohio Voluntary Action Program (VAP) and is listed as having institutional and engineering controls placed on the property. The site is located approximately 1,700 feet northwest and apparently cross-gradient of the Property. Given its distance and cross-gradient location and current status, the Magnus Company site is not considered an environmental concern.

The Ohio Spills List contains an inventory of known release sites reported on the Ohio EPA's Emergency Response Database. Thirty-two spill sites were identified within one-half mile of the Property. Six of the spills are listed within 1/8 mile of the Property as summarized below.

SUMMARY OF STATE SPILL SITES WITHIN 650'					
Site	Address	Distance/Direction	Gradient Direction	Spilled Material	Date
Unknown	Linn and 5th Streets	400 feet southwest	down-gradient	Orphan drum	2005
Interstate Brands	747 W. 5th Street	400 feet east-southeast	cross-gradient	diesel fuel	2002
Unknown	500 Gest Street	400 feet east-southeast	cross-gradient	chloroform	2008
UPS	500 Gest Street	400 feet east-southeast	cross-gradient	uranine green dye	1996
UPS	500 Gest Street	400 feet east-southeast	cross-gradient	pyridine	1991
Edwards Transportation	645 Linn Street	450 feet west-northwest	cross-gradient	diesel fuel	1990

Based on the distance of the spills from the Property, and their cross- or down-gradient location relative to the Property, it is unlikely that any of the spills have impacted the Property. A full listing of the spills can be found in the EDR report.

The UST database is provided by the Ohio Bureau of Underground Storage Tank Regulations (BUSTR). Twenty-nine UST facilities were listed within one-half mile of the Property. The LUST Sites List is a compilation of sites where releases from underground tanks have been reported to BUSTR. Thirty-one LUST sites were listed within one-half mile of the Property. UST and LUST sites located within 1,000 feet of the Property are summarized below.

SUMMARY OF STATE UST & LUST SITES WITHIN 1000'					
Facility Name	Database	Address	Distance/ Direction	Gradient Direction	Comments
Hudepohl Brewery	LUST	800 Hudepohl Street	South adjacent	down-gradient	No Further Action (NFA) required
Kruse Hardware	UST, LUST	518 Linn Street	150 ft. west	down-gradient	NFA
Butternut Bread	Unreg. UST	747 W. 5th Street	300 feet southeast	cross-gradient	Possible incident reported
Interstate Brands	UST, LUST	747 W. 5th Street	300 feet southeast	cross-gradient	1 diesel UST in use, 2 USTs removed; NFA
United Parcel Service	UST, LUST	500 Gest Street	400 feet east-southeast	cross-gradient	2 diesel/gasoline USTs in use, 5 USTs removed; 2 NFA records
Queensgate Foodservice	UST	619 Linn Street	450 west-northwest	cross-gradient	2 diesel USTs in use
Cinergy Corp.	UST, LUST	424 Gest Street	550 southeast	cross-gradient	4 USTs currently in use, suspected/confirmed release NFA
Deutch & Sons	UST	311 Baymiller Street	650 feet south-southwest	down-gradient	1 gasoline UST removed

Of the 8 BUSTR-listed facilities within 1,000 feet of the Property, none are located in the apparent up-gradient direction from the Property and none have an active LUST incident. No further action (NFA) status indicates that any known release from the facility has been cleaned up to state standards and that the likely impact to nearby properties or human health and the environment is low. Given the location of one site on former Hudepohl Brewery property, records for that facility were requested from BUSTR. The records provided by BUSTR are discussed below in Section 5.2.2. A full listing of the LUST sites can be found in the EDR report.

5.2.2 Regulatory File Review

Information obtained from BUSTR relative to the south adjacent UST/LUST site (an adjacent portion of the former Hudepohl facility) is summarized below. Documents provided by BUSTR are included in Appendix I.

Closure Assessment Report, Underground Storage Tank Removals, Pohl Realty - Hudepohl Brewery, 800 Hudepohl Drive, Cincinnati, Ohio, prepared by CARTEC Technical Consultants, Inc., 1991.

> Three USTs and associated equipment were removed from 800 Hudepohl Drive (aka West Fifth Street) on December 26-27, 1991. One 3,000-gallon UST contained diesel fuel, one 6,000-gallon UST contained gasoline, and one 8,000-gallon UST contained diesel fuel. The 6,000- and 8,000-gallon USTs were located in a common cavity located approximately 100 feet south of the Property proximal to Stone Street. The 3,000-gallon UST was located in a separate cavity approximately 200 feet southwest of the Property. The tanks were made of steel. Visible holes were not observed in the USTs. Visible soil contamination was present in soils from the eastern tank pit. Approximately 232 cubic yards of petroleum-impacted soil was excavated from the cavity and disposed off-site. Soil samples from below each end of the USTs were collected and submitted for laboratory analysis for total petroleum hydrocarbons (TPH) by EPA Method 9071 and for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. No detectable TPH or BTEX compounds were detected in any of the samples submitted.

No Further Action letter from BUSTR to Hudepohl Brewery, 800 Hudepohl Drive, Incident No. 3111022-00, dated December 15, 1992.

> This incident involved the removal of three USTs (2 diesel fuel and 1 gasoline) at 800 Hudepohl Drive (currently West fifth Street). The incident received No Further Action (NFA) status from BUSTR on December 15, 1992.

Given that the USTs have been removed, have received NFA status, and were located apparently down-gradient of the Property, they are not considered environmental concerns relative to the Property.

6.0 PHASE I CONCLUSIONS AND FINDINGS

6.1 Identified Areas and Chemicals of Concern

6.1.1 Property

ATC has completed a Phase I Property Assessment of the Former Hudepohl Brewery in general accordance with Ohio EPA VAP requirements.

Manufacturing businesses including breweries and ice cream factories have historically been located on the Property for approximately 150 years. Although such businesses process food products, these industries used and stored hazardous substances and petroleum products for cleaning, maintenance and fueling purposes. Historical uses of each building at the Property are summarized in Table 1.

Six conditions of potential environmental concern were recognized at the Property: i) the past use of the property for industrial purposes, ii) the presence of small quantities of residual chemicals and petroleum products, iii) the presence of widespread floor staining and discoloration associated with general industrial use, iv) the past presence of electric generators and associated electrical equipment at the property, v) the presence of suspect asbestos-containing materials (ACMs) in on-site buildings, and vi) the likely presence of lead-based paint on structures given the age of the facility.

Residual drums and containers of maintenance chemicals and petroleum products are present in the northeast and southwest areas of the Property. Containers ranged from good to fair condition. Property reconnaissance identified evidence of multiple small scale releases (i.e., staining/discoloration) on concrete flooring throughout the Property. Some of the staining was associated with residual containers but other areas appeared discolored from past spills/leaks or general long term industrial usage.

Historical documents indicate that the facility previously generated its own electric power using steam-powered generators located in various buildings at various times in the eastern portion of the Property. Electrical equipment associated with such may be a potential source of PCBs.

Suspect asbestos-containing materials (ACMs) and suspect lead-based paint (LBP) were also noted throughout the facility. These suspect materials included materials in poor to severely damaged condition which could constitute a release of these substances to the environment.

Given the long term use of the Property for manufacturing purposes, the presence of general floor staining/discoloration and residual chemical/lubricant containers at the Property, and the poor condition of suspect ACMs and LBP, the potential for past releases is considered high. No specific hazardous waste/chemical storage/disposal areas were identified and no large, single release has been documented. Individual floor stains observed during reconnaissance were considered "*de minimis*". Under VAP guidelines, if more than three *de minimis* areas are located within an one acre, the area must by evaluated per Phase II protocols (OAC 3745-300-06[F]). Given the general overall staining observed at various locations around the Property, more than three "*de minimis*" areas are considered present. Given the lack of "point source" areas of concern/impact as outlined above, the entire Property is considered a single Identified Area under the VAP.

The proposed list of chemicals of concern (COCs) for the on-site Identified Area is based on those residual substances observed during Property reconnaissance (including suspect ACM and LBP) and those materials that may be inferred to have been used in the past based on general industrial practices. These COCs include: i) petroleum products (oils, lubricants), ii) volatile organic compounds (cleaners, degreasers), iii) PCBs associated with electrical equipment and lubricating oils, iv) metals associated with maintenance chemicals and residual ash from on-site boilers, v) asbestos-containing material, and vi) lead-based paint.

6.1.2 Adjacent Properties

A historic lumber yard was present on the north adjacent property from at least 1883 until 1944. Given the possibility that hazardous chemicals were used at the lumber yard for lumber treating operations, that the lumber yard is apparently up-gradient of the Property, and the close proximity of the facility to the Property, the historic lumber yard is considered an Identified Area.

A historic freight warehouse/garage was located to the east of the Property from approximately 1927 to 1958. Four gasoline USTs were located at the facility at various locations at different times. The nearest UST was situated approximately 60 feet east of the Property. Given that the UST locations are situated east of the Property and potentially up-gradient, their distance from the Property (i.e., less than 100 feet), and that no record of UST closure is apparently on file with BUSTR, the historical presence of USTs east of the Property is a considered an Identified Area.

The USTs at the east off-site Identified Area were identified as containing gasoline. Given the use of the facility as a freight terminal, it is possible that diesel fuel may also have been used. Accordingly COCs associated with this Identified Area are assumed to include components of gasoline and diesel fuel.

6.2 Conclusions

Based on the presence of Identified Areas designated on the Property and in the surrounding area, a VAP Phase II Property Assessment would be required to obtain a No Further Action letter for the Property.

7.0 BIBLIOGRAPHY

Brockman, C.S. et al., *Surficial Geology of the Ohio Portions of the Cincinnati and Falmouth 30 x 60 Minute Quadrangles Map,* Ohio Department of Natural Resources, Division of Geological Survey, 2004.

Cincinnati Enquirer, "Brewery installs huge beer bottle washer," September 15, 1947, p. 4.

Cincinnati Enquirer, "Brewery battle," October 3, 1998, p. B1.

Cincinnati Enquirer, "What will be done about old brewery?" March 13, 2004, p. B2.

Cincinnati Enquirer, "Old Hudepohl brewery ailing," March 20, 2007, p. A7.

Cincinnati Post Times-Star, "Hudepohl Begins Expansion Program in Queensgate," June 29, 1964, p. 1.

Cincinnati Times-Star, "Will Add Floors to Second Plant," December 2, 1937, p. 14.

Cincinnati Times-Star, "Set Fast Schedule for Work on Brewery Bottling Plant," February 6, 1940, p. 17.

Cincinnati Times-Star, "Brewery to Erect Big Power Plant," September 20, 1941, p. 4.

Environmental Data Resources, Inc., Radius Map with GeoCheck Report, Inquiry No. 2575940.2s, August 27, 2009.

Environmental Data Resources, Inc., Sanborn® Maps, Inquiry No. 2575940.3, August 28, 2009: 1887, 1891, 1922, 1934, 1950, 1981.

Haine's Cincinnati Criss-Cross Directories: 1991, 1996, 2000, and 2005.

Hamilton County Auditor web site: http://www.hamiltoncountyauditor.org

Hamilton County Engineer's Office, Aerial Photographs: 1932, 1948, 1975, 1986, 1996, and 2006.

Hamilton County Soil and Water Conservation District, Aerial Photographs: 1938 and 1950.

International Finance Corporation, *Environmental, Health, and Safety Guidelines for Breweries*, 2007.

Ohio Department of Transportation, Aerial Photographs: 1956, 1963, and 1981.

Robinson's *Atlas of the City of Cincinnati, Ohio*, 183-84.

Sanborn Map Co., *Atlas of Cincinnati* available at the Public Library of Cincinnati and Hamilton County: 1922.

Sanborn Map Co., Fire Insurance Maps available at the Public Library of Cincinnati and Hamilton County: 1904 revised 1930 and 1934 revised 1961.

United States Department of Agriculture *Soil Survey of Hamilton County*, Ohio, dated 1982.

United States Geological Survey (USGS) 7.5-Minute Series *Covington, Kentucky-Ohio* Topographic Quadrangle Map, 1981, photorevised 1987.

Walker, A.C., *Ground-Water Resources of Hamilton County*, Ohio Department of Natural Resources, Division of Water, 1986.

Williams Cincinnati, Ohio, Directories: 1923, 1927-28, 1930-31, 1935, 1940, 1944, 1949, 1953-54, 1958, 1962, 1967, 1972, 1977, 1982, 1987, and 1991.

Wimberg, R.J., *Cincinnati Breweries*, Ohio Book Store, c. 1989.

7.1 Interviews

The following persons were interviewed in connection with the Property to obtain information regarding environmental conditions in connection with the Property:

Mr. Sy Safi, GCCM Construction Services, LLC, employed by the owner since acquisition of the Property in 2004. Interview conducted during Property inspections August and September, 2009.

Mr. Rick Thornburg, Cincinnati Department of Health. Interviewed by telephone September 11, 2009.

ATTACHMENTS

FIGURES

Figure 1: Property Location Map

Figure 2a: Property Plan

Figure 2b: Property Plan (Historical Use)

Figure 3: Property Plat Map

Figure 4: Auditor's Map

Figure 5: Geologic Map

Figure 6: Ground-Water Resource Map

Figure 7: Soil Survey Map

TABLES

Table 1: Historical Use and Building Summary

APPENDICES

Appendix A: Resumes of Key Personnel

Appendix B: Limitations

Appendix C: ODNR Well Log Search

Appendix D: Previous Reports

Appendix E: Sanborn / Historical Maps

Appendix F: Aerial Photographs

Appendix G: Hamilton County Auditor's and Recorder's Records

Appendix H: City Directory Records Summary

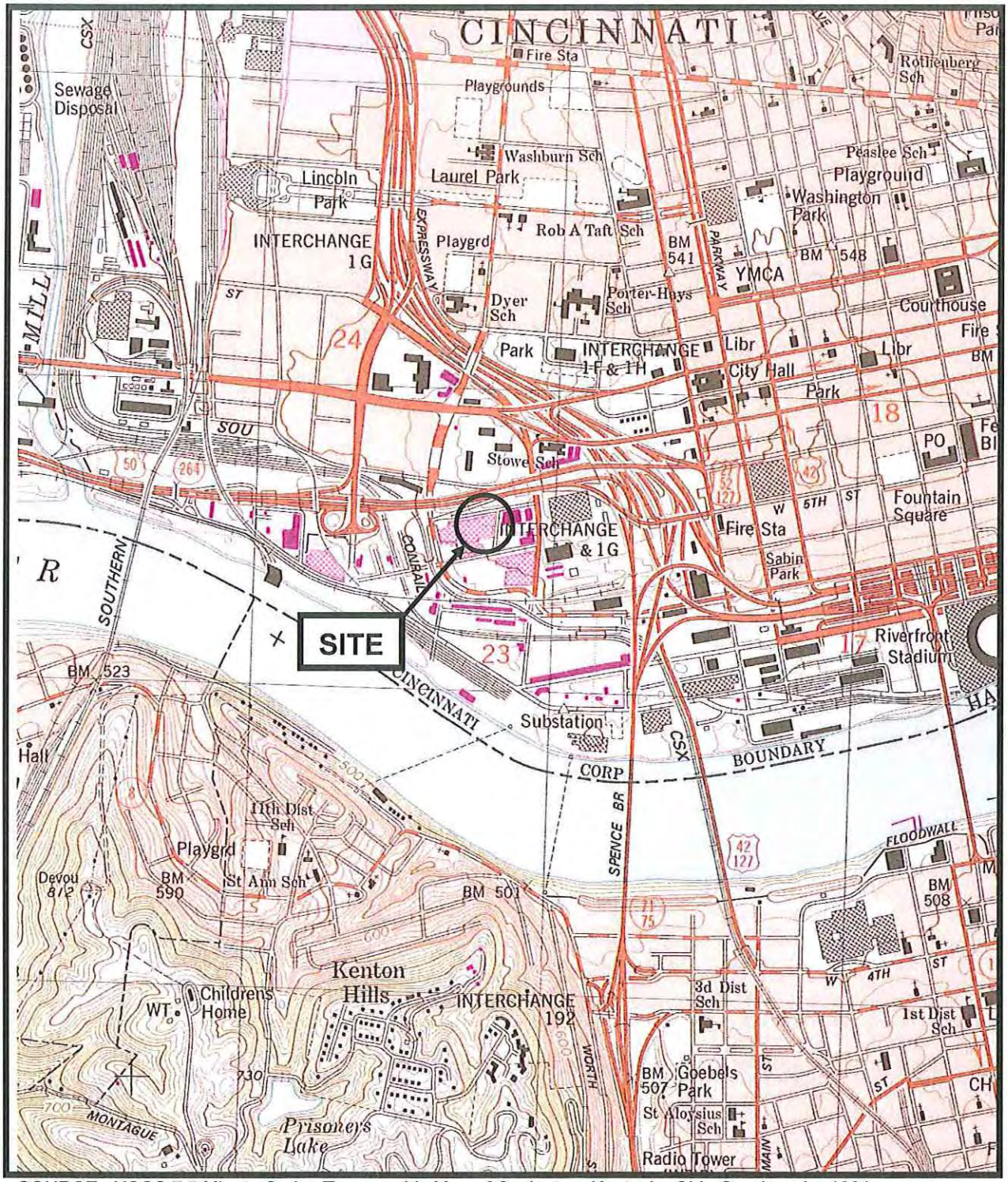
Appendix I: Environmental Database Report

Appendix J: FOIA Requests

Appendix K: Records of Communication

Appendix L: Property Photographs

FIGURES



SOURCE: USGS 7.5 Minute Series Topographic Map of Covington, Kentucky-Ohio Quadrangle, 1981, photorevised 1987.

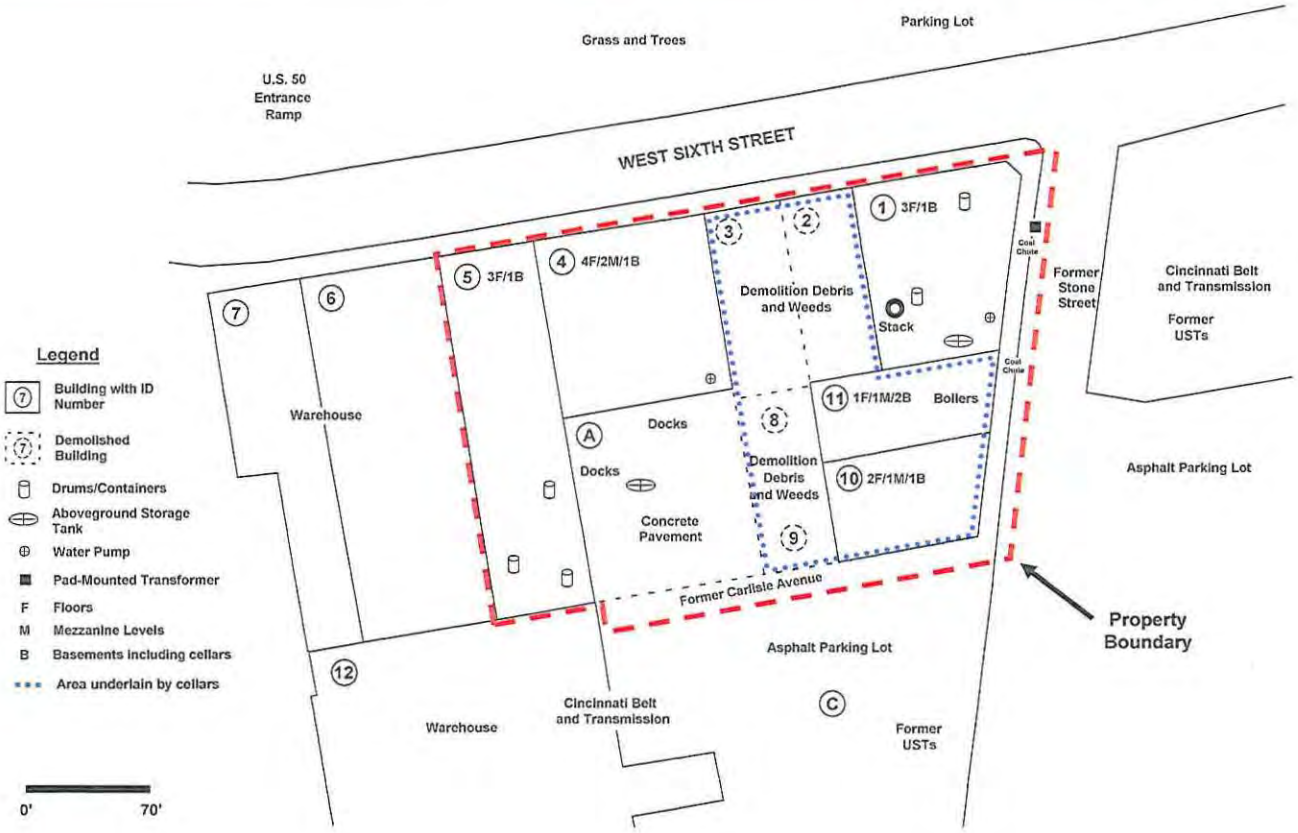
PROPERTY LOCATION MAP
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan

SCALE: 1 in. = 2000 ft.

FIGURE: 1

VATC



PROPERTY PLAN (Historical)
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9/22/09	WAN	WAN

SCALE: 1 in. ~ 70 ft.

FIGURE: 2b

VATC

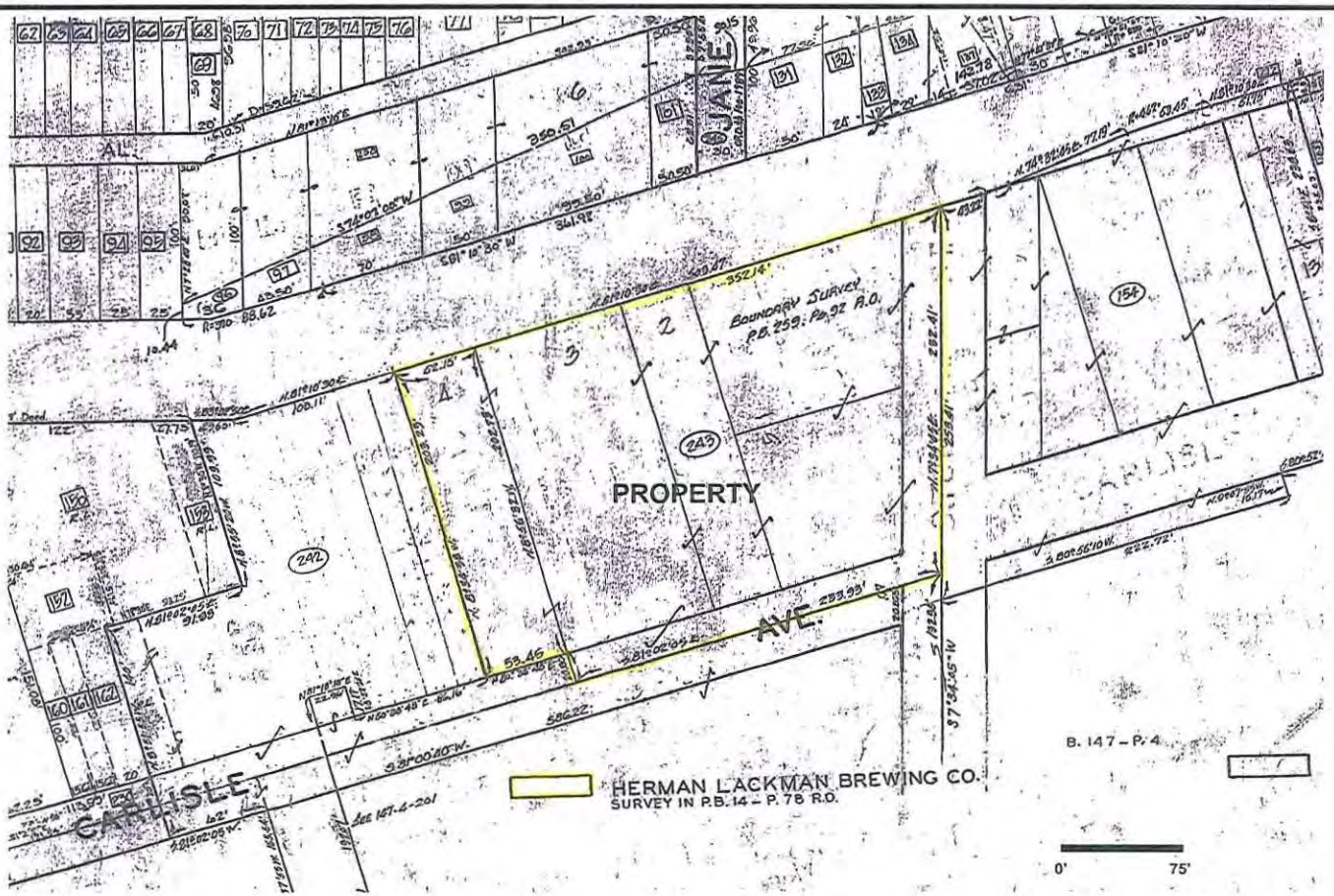
PROPERTY PLAN (Historical Use)
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9/22/09	WAN	WAN

SCALE: 1 in. ~ 70 ft.

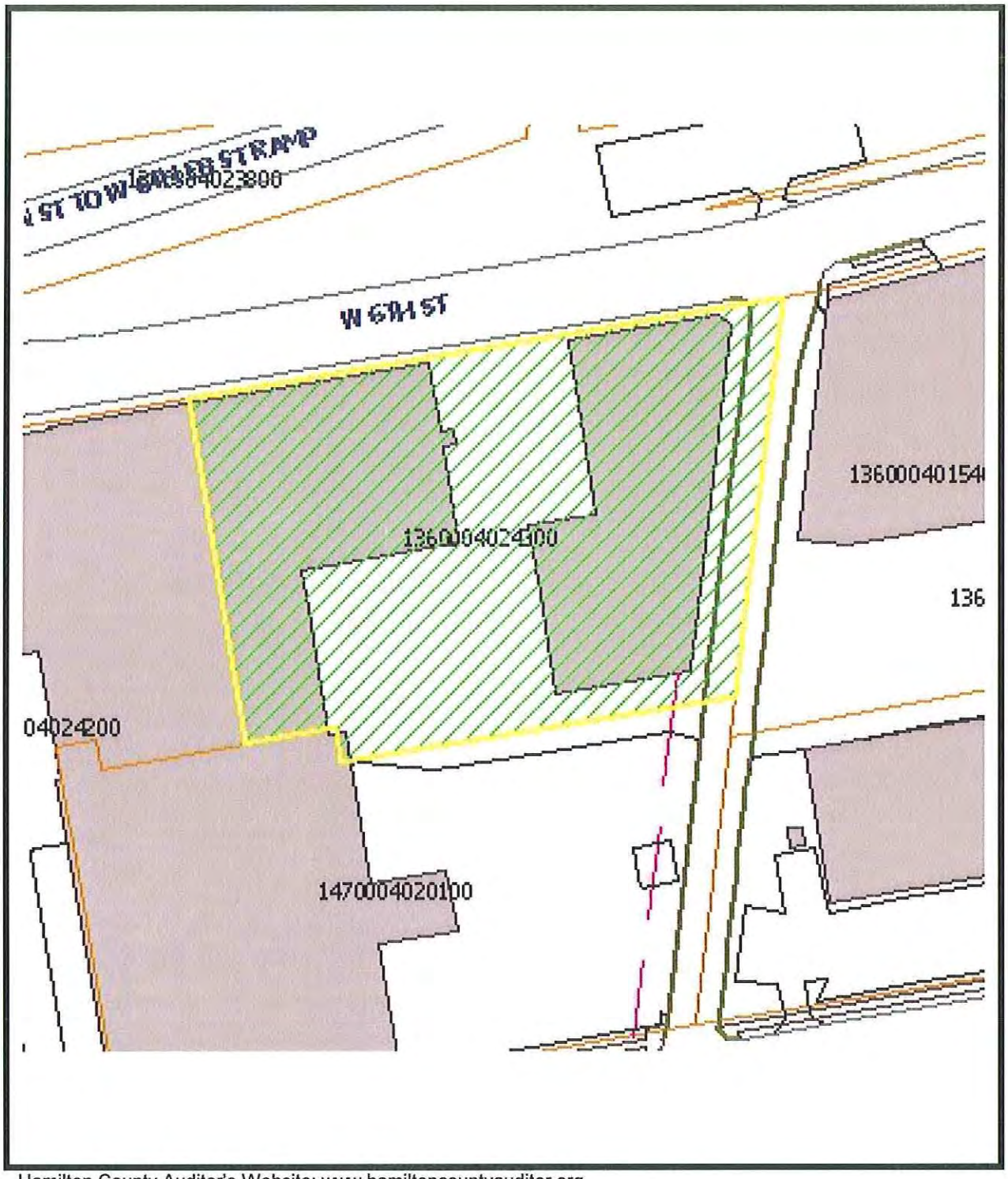
FIGURE: 2b

VATC



Source: Hamilton County Auditor's Plat, Book 136, Page 4, Cincinnati

PROPERTY PLAT MAP VAP Phase I Property Assessment Former Hudepohl Brewery 801 West Sixth Street Cincinnati, Ohio	PROJECT NO. 72.39245.0001	DATE: 9/22/09	DRAWN BY: WAN	REVIEWED BY: WAN
	SCALE: 1 in. ~ 75 ft.			
	FIGURE: 3			



Hamilton County Auditor's Website: www.hamiltoncountyauditor.org.

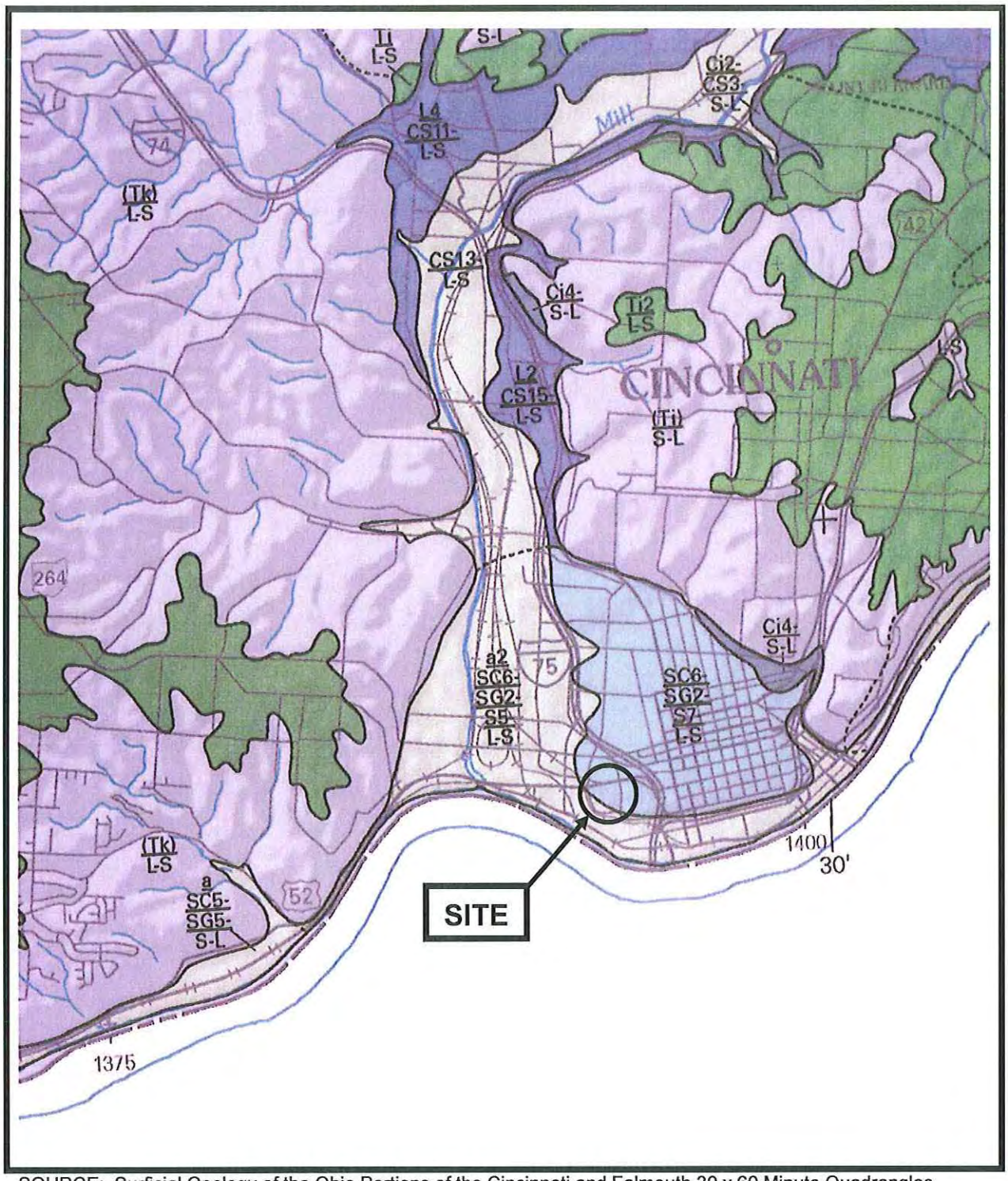
AUDITOR'S MAP
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan

SCALE: 1 in. ~ 85 ft.

FIGURE: 4

VATC



SOURCE: Surficial Geology of the Ohio Portions of the Cincinnati and Falmouth 30 x 60 Minute Quadrangles, Ohio Division of Geological Survey, Map SG-2, dated 2004.

GEOLOGIC MAP
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan
SCALE: 1 in. ~ 5200 ft.			
FIGURE: 5a			

VATC

Surficial Units

w	water
m	made land and pits
a	alluvium
C	Clay, Wisconsinan-age
Ci	Clay, Illinoian-age
Ck	Clay, Pre-Illinoian-age (Kansan-age in old terminology)
G	Gravel, Wisconsinan-age
IC	Ice contact deposits, Wisconsinan-age
IM	Till and water laid deposits, Wisconsinan-age
L	Silt, Wisconsinan-age
Li	Silt, Illinoian-age
LA	Silt, clay, sand and gravel, Wisconsinan-age
S	Sand, Wisconsinan-age
Si	Sand, Illinoian-age
Sk	Clayey to pebbly sand, Pre-Illinoian-age
SC	Fine sand, clay, and silt, unspecified age
SG	Sand and gravel, Wisconsinan-age
SGi	Sand and gravel, Illinoian-age
SGA	Sand and gravel with paleosol, Pre-Wisconsinan-age
SGC	Sand and gravel, Wisconsinan-age with clay and silt interbeds
TA	Loam till, Wisconsinan-age
Ti	Loam till, Illinoian-age
Tk	Clay-loam till, Pre-Illinoian-age

Ls	Limestone
L-S	Limestone and Shale
S-L	Shale and Limestone

N

SOURCE: Surficial Geology of the Ohio Portions of the Cincinnati and Falmouth 30 x 60 Minute Quadrangles, Ohio Division of Geological Survey, Map SG-2, dated 2004.

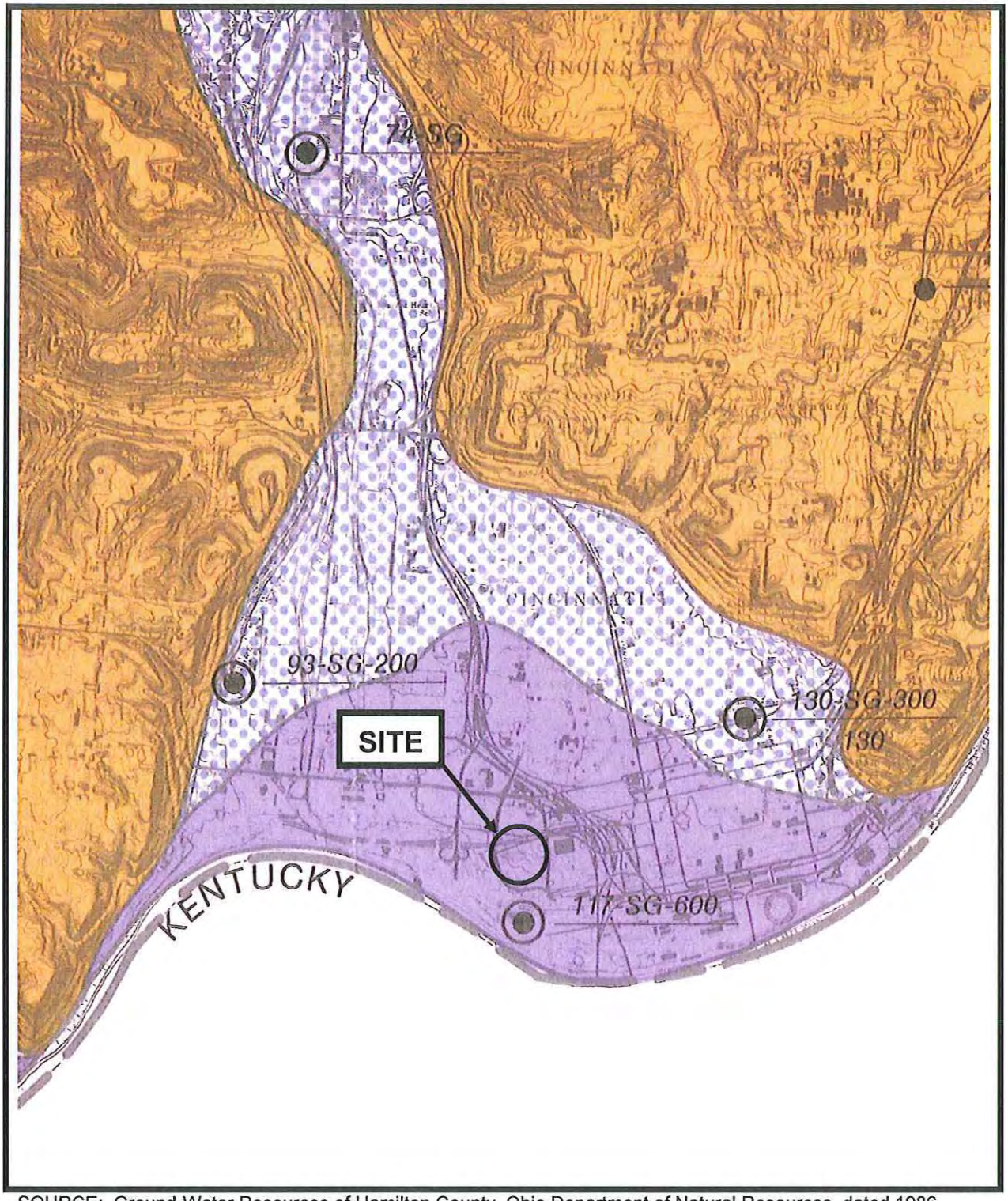
GEOLOGIC MAP LEGEND
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan

SCALE: N/A

FIGURE: 5b

VATC



SOURCE: Ground-Water Resources of Hamilton County, Ohio Department of Natural Resources, dated 1986.

GROUNDWATER RESOURCE MAP
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan

SCALE: 1 in. ~ 3400 ft.

FIGURE: 6a

VATC

Well Yields

AREAS IN WHICH YIELDS OF MORE THAN 500 GALLONS PER MINUTE CAN BE DEVELOPED.

Best ground-water areas in Hamilton County. Permeable sand and gravel deposits in ancient stream channels, suitable for large industrial well field development. Yields of as much as 1,000 gallons per minute have been reported.

AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE CAN BE DEVELOPED.

Sand and gravel deposits, generally well sorted, may yield several hundred gallons per minute. Highest yields are reported where recharge is available from nearby streams. Exploratory drilling is necessary to locate coarser materials.

AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE CAN BE DEVELOPED.

Valley fill contains thick local deposits of sand and gravel. Screened wells encountering permeable deposits yield less than 100 gallons per minute. Shale bedrock will supply very limited yields.

AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE MAY BE DEVELOPED.

Thick deposits of clay with thin lenses of sand and gravel will yield less than 10 gallons per minute. Wells not encountering sand and gravel produce less than 3 gallons per minute from the underlying limey shale at depths of less than 100 feet.

AREAS IN WHICH YIELDS SELDOM EXCEED 3 GALLONS PER MINUTE.

Poor source of ground water. Bedrock consists of interbedded plastic shales and thin limestone layers. If water is present in the rock, it usually occurs in the upper few feet where the strata have been somewhat weathered and broken. Overlying glacial cover is generally less than 50 feet thick and consists largely of clay. Occasional lenses of sand and gravel will supply small yields. Wells seldom produce more than 3 gallons per minute. Many are inadequate.

Well Site Symbols

- Well Site
- Municipal-Industrial Well
- Test Well*
- Observation Well**
- A Chemical Analyses

S - Sand
CL - Clay
SH - Shale
LS - Limestone
SG - Sand & Gravel

Depth (ft.) - Water-bearing Formation - Yield (gpm)

290-SG-10
224

Depth to Bedrock (ft.)

SOURCE: Ground-Water Resources of Hamilton County, Ohio Department of Natural Resources, dated 1986.

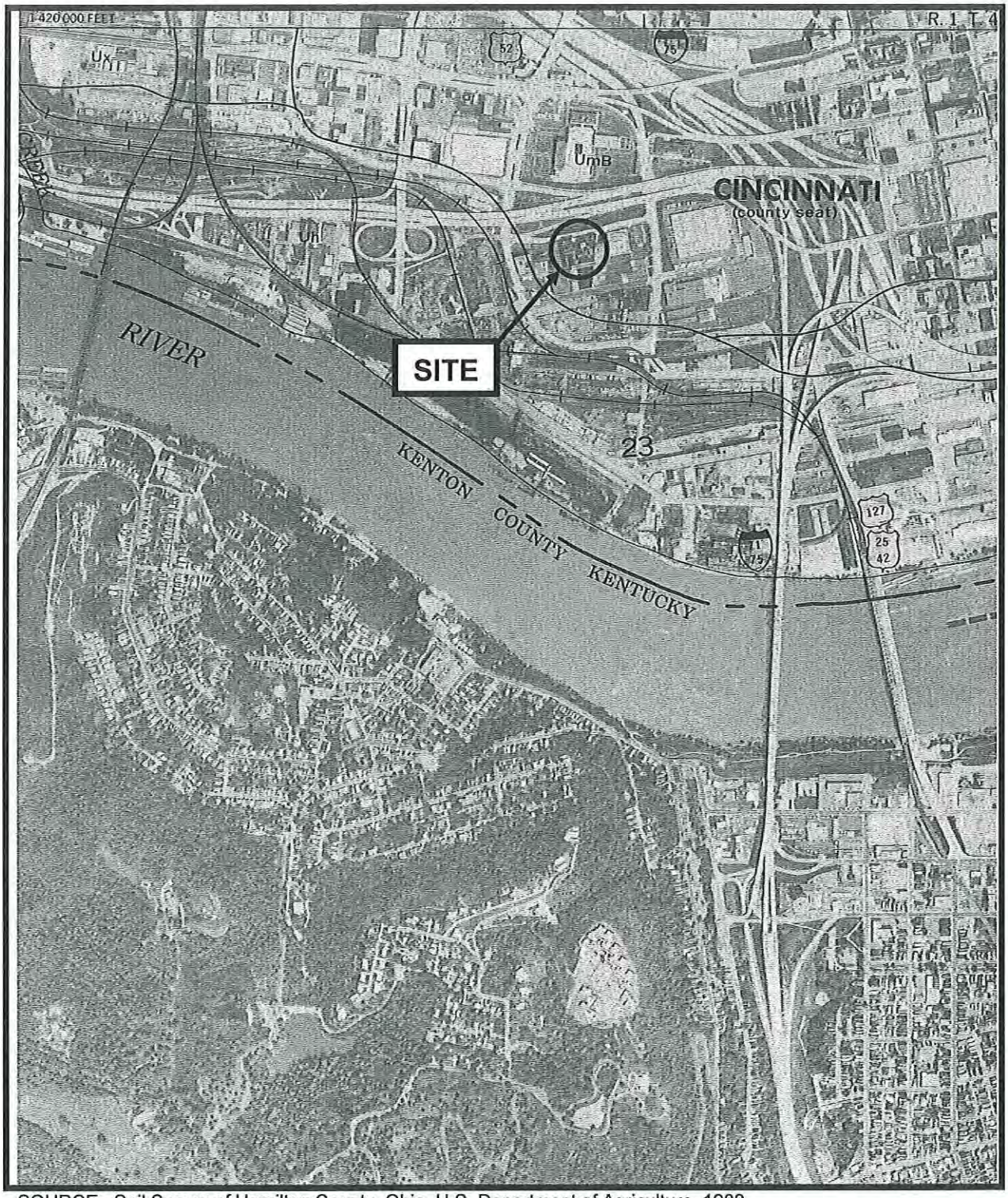
GROUNDWATER RESOURCE MAP LEGEND
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan

SCALE: N/A

FIGURE: 6b

VATC



SOURCE: Soil Survey of Hamilton County, Ohio, U.S. Department of Agriculture, 1982.

SOIL SURVEY MAP
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	Wan

SCALE: 1 in. ~ 1200 ft.

FIGURE: 7

VATC

TABLE

TABLE 1 - Historical Use and Building Summary
Former Hudepohl Brewery, 801 West Sixth Street, Cincinnati, Ohio

Building No.	Bulding 1	Bulding 2	Bulding 3	Bulding 4	Bulding 5	Bulding 8	Bulding 9	Bulding 10	Bulding 11	Yard A	Source
Year Built	1946	demolished	demolished	1947	c. 1900	demolished	demolished	1961	1909	demolished	
Area of Footprint	85' x 100'	40' x 100'	42' x 100'	95' x 100'	55' x 100'	42' x 46'	42' x 55'	60' x 95'	45' x 100'	95' x 100'	
Stories	3 + basment	N/A	N/A	3 + mezzanine + basement	3 + partial basement	N/A	N/A	3	1 + mezzanine + basement	N/A	
Cellar present?	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	
1883	Dwellings	Lackman Brewery			Dwellings	Lackman Brewery					Robinson Atlas
1887		Granary	Granary	Offices/Stables	Dwellings	Mash house	Mash house	Hop house, dwelling	Kilns	Driveway, wagon shed	Sanborn map
1891						Wash house	Brew house	Boiler & engine room, ice machines, coal fuel			Sanborn map
1900	Dwellings, Pump House	Malt house	Storage	Offices, racking cellar, wash house	Stable, bottling house	Brew house		Boiler & engine room		Roofed court	Plat map
1930		Niser Ice Cream Co.	Niser Ice Cream Co.	Niser Ice Cream Co.	Auto storage	Niser Ice Cream Co. dairy	Niser Ice Cream Co. dairy	Niser Ice Cream Co., engine house, ammonia tanks	Niser Ice Cream Co., storage, boilers	Auto loading shed	Sanborn map
1935		Hudepohl storage	Hudepohl storage	Hudepohl, offices, racking cellar, wash house, shipping	Hudepohl , wash house	Hudepohl, malt bins	Hudepohl, brew house	Hudepohl, engine & generator room, brine tanks	Hudepohl, boilers, malt bins	Shipping, receiving	Hudepohl map
1950	Engine and Boiler House, coal-fired, independent electric generation	Beer cellars, storage, built 1937	Beer cellars, storage, built 1885	Rack room, beer cellar, fermenting, settling	Wash house, bottle house		Brew house	storage	storage	Loading, shipping	Sanborn map
1959							Brew house	Proposed brew house	Proposed brew house		Hudepohl map
1964							Brew house	Brew house	Brew house		Hudepohl map
1974				Factory	Bottling, storage	Factory	Brew house			Loading garage	Hudepohl map
1984				Racking, shipping	Bottling house	Malt receiving	Brew house			Order pick-up	Hudepohl map
2009	Residual chemicals, floor stains, S-ACM, S-LBP	Demolished	Demolished	S-ACM, S-LBP	Residual chemicals, floor stains, S-ACM, S-LBP	Demolished	Demolished	S-ACM, S-LBP	S-ACM, S-LBP	Residual chemicals	Site inspection

S-ACM: Suspect asbestos-containing material
S-LBP: Suspect lead-based paint

Appendix A

Resumes of Key Personnel

- *Specializes in due diligence services*
- *Over seventeen years experience in the environmental field*

William A. Norris

Staff Geologist

Professional Summary

Mr. Norris has 17 years of experience providing due diligence services; developing and conducting hydrogeologic and subsurface investigations; closing and assessing underground storage tank (UST) systems; and completing remedial actions. He is also certified to conduct asbestos inspections.

Relevant Experience

Due Diligence / Government / Cincinnati, OH
Conducted Phase I and II ESA of 30-acre Brownfield property in accordance with Ohio's Voluntary Action Program (VAP) in order to obtain state redevelopment funds.

Remediation / Real Estate / Cincinnati, OH
Delineated extent and implemented remediation of impacted soils at a Brownfield site in anticipation of redevelopment as single family housing.

UST Management / Construction / Cincinnati, OH
Supervised UST removal and completed environmental reporting on an expedited basis of an UST discovered during construction activities in downtown Cincinnati.

Asbestos Services / Government / Dayton, OH
Conducted asbestos surveys at nine industrial facilities to identify asbestos–containing materials. Oversaw completion of surveys at an additional ten facilities.

Professional Qualifications

Licenses

- Certified Asbestos Hazard Evaluation Specialist (Ohio, #32648, 2008)

Training

- OSHA Health and Safety Training for Hazardous Waste Site Investigations in accordance with 29 CFR 1910.120 (2008)

Education

Bowling Green State University, Bowling Green, OH
B.S., Paleobiology

University of Cincinnati, Cincinnati, OH
M.S., Geology

"Mike is exactly what I look for in a consultant – he is a problem-solver that I can trust and depend on. He has provided valuable services to my firm and our clients for more than 15 years."

- A. Christian Worrell, Graydon Head & Ritchey

Highlights

- *VERY familiar with local hydrogeology and Ohio-specific regulatory framework – over 20 years of experience in area*
- *Comfortable in High-Profile Environments; Excellent Communication Skills*
- *Known for his Commitment to Service/Quality, and his Integrity*

MICHAEL J. LUESSEN, P.G./C.P.

Principal Consultant

Professional Summary

Mr. Luessen is a Principal Consultant in ATC's Cincinnati, Ohio office. He is responsible for technical and financial aspects of client management, business development and quality assurance/quality control. He has over 25 years of experience in geology, with 20 years of experience in environmental project management.

Fields of expertise include: phase I and II environmental real estate assessments, brownfields redevelopment projects inside or outside of Ohio's Voluntary Action Program, underground storage tank management, hydrogeologic assessment, remedial investigation/design and implementation, risk-based corrective actions, remedial design and implementation, RI/FS studies, and environmental regulatory compliance.

Relevant Experience

Point-of-Contact / City of Cincinnati Environmental Contract
Act as senior technical resource/QA/QC reviewer on work products prior to submittal to City; has performed related work for the City since 1995. In this capacity, has overseen hundreds of diverse projects for various City Department, including but not limited to brownfield redevelopment sites, Phase I/ II ESAs, remedial projects, building science-related work (asbestos, lead and mold), and UST-related projects. Recent projects include the Mill Creek Psychiatric Site Redevelopment (currently a Graeter's Ice Cream Factory) and the Blue Ash Airport Reconfiguration (in progress). Past Projects include the MetroWest/Queen City Barrel site in Lower Price Hill, the Kroger Parking Garage site, the Mills of Carthage Brownfield Redevelopment project. multiple BUSTR-regulated UST release investigation sites, and the SSO #700 site (a brownfield redevelopment project in Reading for MSD).

Technical Resource / RELLC / National
Act as a technical resource for a national consortium of oil companies on large, complex petroleum-related sites with co-mingled contaminant plumes. In this capacity, become exposed to cutting edge remedial technologies through petroleum company in-house technical resources. Such experience affords clients with the benefit of current knowledge and practical problem-solving in a variety of hydrogeologic settings.

Project Director / CityWest Development / Cincinnati, Ohio
Point-of-Contact for turnkey consulting services for "Citywest" Development - largest urban redevelopment project in Cincinnati – three city block area. Services included Phase I and II ESA, asbestos surveys and abatement monitoring, geotechnical engineering and materials testing. Integration of geotechnical/environmental project approaches and innovative solutions (dynamic compaction of soils / arsenic speciation) resulted in savings of over $3,000,000 to client.

Project Director / Expedited Due Diligence / Major Oil Company Merger
Project Director for expedited due diligence study related to merger of three major oil companies. Merger was the largest of its kind at that time. Rapid assessment was performed at over 300 retail petroleum sites across the U.S. Worked with clients to develop and refine work scope, managed implementation of data acquisition/compilation, and presented findings to upper management from three international petroleum firms.

Expert Witness / Legal / Ohio.
Expert Witness, Hydrogeologic-, UST- and ESA-related litigation, in Southwest Ohio.

Project Management / City of Dayton / Ohio.
Managed site assessment and waste characterization for 12 sludge ponds associated with the City of Dayton Waste Water Treatment facilities. Polychlorinated biphenyls were primary contaminant of concern. Data collection included innovative approach to facilitate sample collection in semi-solid sludge pond terrain.

Senior Technical Resource/Point-of-Contact / Bethel Schools / Ohio. Point-of-Contact for on-going study of petroleum-impacted carbonate aquifer with impact to potable water supply in southwest Ohio. Study included work plan development and presentation in public forum, working with legal counsel to develop settlement in civil suit and managing passive remedial approach to site. Approach included aquifer characterization, groundwater flow and fate/transport modeling, risk assessment and remedial plan development/implementation (passive bio-augmentation with oxygen-releasing compound.)

Brownfields Redevelopment / Private Developer / Ohio.
Managed Brownfields redevelopment project involving assessment and remedial activity associated with divestiture and redevelopment of a printing facility. Scope of study included Phase I ESA, UST removal and associated remedial activity, asbestos abatement, hydrogeologic assessment, contaminant fate-and-transport modeling, and risk assessment.

Emergency Response-Assessment / OEPA / Ohio.
Managed emergency assessment and remediation at a construction debris fill site where hazardous paint waste was deposited unknowingly by a construction firm. Waste materials had been encountered during storm sewer construction at an industrial property. ATC prepared and implemented work plans for pre-remedial assessment and site remediation, working closely with the Environmental Crimes Unit, OEPA, and attorneys for involved parties. Cleanup was completed on an expedited basis within 60 days. The impacted area was isolated, such that the fill site remained operational during assessment/remediation.

RCRA Closure / Private Client / Ohio.
Managed RCRA closure of a hazardous waste transport, storage and disposal (TSD) facility in Malta, Ohio. Industrial plant was classified as a TSD after an exceedance of holding time for waste. TSD status was removed through implementation of a remedial work plan as developed through a negotiated Consent Order with

OEPA. Storage area was closed through excavation and off-site disposal of metals-impacted soil, and associated grid sampling and analysis.

Landfill Study / City of Cincinnati / Ohio.
Managed large-scale study of environmental effects of 12 City-owned landfill sites on sediment and surface water quality of an urban stream for the City of Cincinnati. Study included site review/reconnaissance, hydraulic modeling, quarterly data collection for five consecutive quarters, risk assessment and data compilation/presentation in public forums.

Hazardous Waste Management / Private Client / Kentucky.
Managed hazardous waste remediation project that entailed the removal of 118 buried drums of paint waste from a site along a creek in Northern Kentucky. Project included preparation and implementation of a remedial work plan, associated regulatory negotiation, and interfacing with three responsible parties and their associated legal counsel.

Site Assessment / Various / National
Managed Phase I and II environmental site assessments at more than 1,000 sites throughout Ohio, Indiana, Kentucky, Illinois, Pennsylvania, and Florida.

Managed closure of underground storage tanks from more than 400 sites in Ohio.

Managed hydrogeologic assessments at more than 500 petroleum, chemical and/or industrial facilities throughout Ohio, Kentucky, Indiana, Pennsylvania and Florida

Professional Qualifications

- Member, Partners in RBCA Implementation (PIRI) Group, Ohio, 1997-99
- Expert Panel Member, EDR Due Diligence at Dawn Seminar, The Phase I Standard ASTM E 1527..."The Devil is in the Details", May, 1998, Cincinnati, Ohio
- Risk-Based Corrective Actions Seminars, 1995-96, Shell Oil Products Co. Internal Training Seminars (by Shell's Westhollow, Texas Research Group)
- Corrective Action for Containing and Controlling Ground Water Contamination, AGWSE Short Course, 1991
- OSHA Hazardous Waste Site Operations Training (40 hours), Supervisory Training (8 hours), 29 CFR 1910.120

Registrations

- Certified Professional (Ohio's Voluntary Action Program, #267)

Licenses

- Registered Professional Geologist (Kentucky, #247)

Education

Idaho State University
M.S., Geology, 1987

Northern Kentucky University
B.S., Geology, 1983

Papers and Publications

- Luessen, M.J. and Worrell, A.C., 2003, *Brownfield Redevelopment and Environmental Due Diligence – Managing the Process*, Lorman Seminar on Construction Design/Build, Cincinnati, Ohio.
- Luessen, M.J. and Worrell, A.C., 2002, *Environmental Issues in Site Development: Brownfields vs. Greenfields*, Lorman Seminar on Construction Design/Build, Cincinnati, Ohio.
- Luessen, M.J. and Gunn, M., 1999, Environmental Effects of Twelve City-Owned Landfill Sites on Sediment and Water Quality in the Mill Creek: Ramifications for Urban Streams, 8th Annual Business and Industry's Environmental Symposium, March 30 - 31, 1999, Cincinnati, Ohio, p. 368-382.
- Luessen, M.J., Krichbaum, S. and Dedoes, R., 1998, Ohio Underground Storage Tanks: BUSTR and RBCA, Volume I, 7th Annual Business and Industry's Environmental Symposium, 1998, Cincinnati, Ohio, p. 384-405.
- Luessen, M.J., Allex, M.K. and Holzel, F.R., 1995, Qualitative vs. Quantitative Data: Controls on the Accuracy of PID Field Screening in Petroleum Contamination Assessment Applications. NGWA Program for In-Situ Field Tests for Site Characterization and Remediation, 1995 Annual Convention, Indianapolis, IN, p. 51
- Luessen, M.J., 1992, Remediation of Petroleum-Impacted Soil and Groundwater in Southwestern Ohio: The Importance of Thorough Pre-Remedial Site Characterization. GSA Abstracts w/ Programs, V. 24, n. 7, 1992 National Meeting, Cincinnati, Ohio, p. A-74

Professional Activities

- National Groundwater Well Association

Appendix B

Limitations

LIMITATIONS OF STUDY

ATC has prepared this VAP Phase I Property Assessment using reasonable efforts in each phase of its work to identify environmental conditions associated with hazardous substances, wastes, and petroleum products at the Property. The methodology of this Phase I Property Assessment was consistent with the Ohio EPA Voluntary Action Program. Findings within this report are based on information collected from observations made on the day of the property investigation and from reasonably ascertainable information obtained from governing public agencies and private sources.

This report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes. ATC makes no representation or warranty that the past or current operations at the Property are or have been in compliance with all applicable federal, state, and local laws, regulations, and codes.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

ATC is not a professional title insurance firm and makes no guarantee, explicit or implied, that any land title records reviewed represent a comprehensive or precise delineation of past property ownership or occupancy for legal purposes.

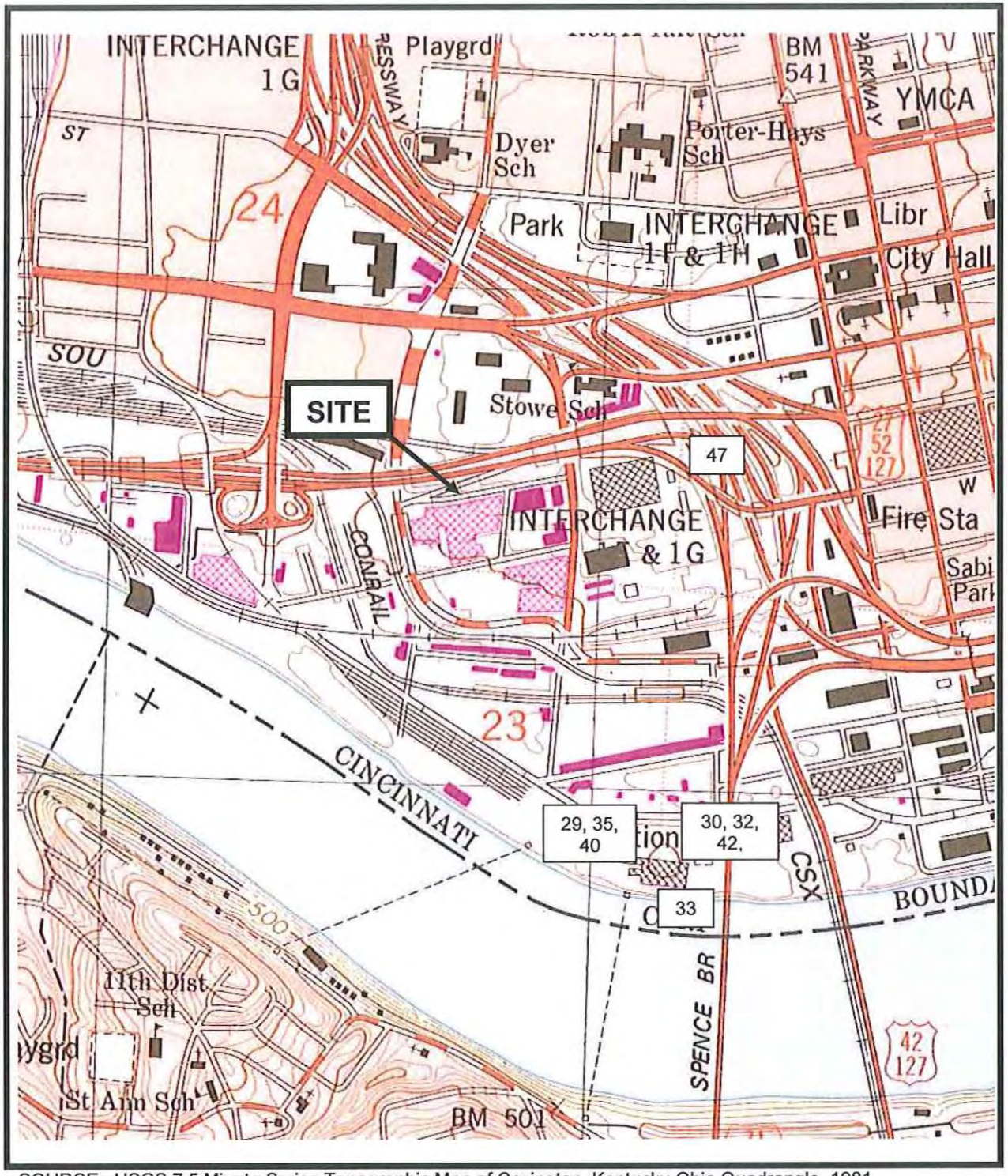
The regulatory database report is based on an evaluation of the data collected and compiled by a contracted data research company. The report focuses on the Property and neighboring properties that could impact the Property. Neighboring properties listed in governmental environmental records are identified within specific search distances. The search distance varies depending upon the particular governmental record. The regulatory research is designed to meet the requirements of the Ohio VAP. The information provided in the regulatory database report is assumed to be correct and complete.

Subsurface conditions may differ from the conditions implied by the surface observations and can only be reliably evaluated through intrusive techniques.

Reasonable efforts have been made during this assessment to locate aboveground and underground storage tanks and ancillary equipment. "Reasonable efforts" are limited to information gained from visual observation of largely unobstructed areas, recorded database information held in public record, and available information gathered from interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to snow cover, paving, construction or debris pile storage, or incorrect information from sources.

Appendix C

ODNR Well Log Search



SOURCE: USGS 7.5 Minute Series Topographic Map of Covington, Kentucky-Ohio Quadrangle, 1981, photorevised 1987.

ODNR Well Log Location Map
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-22-09	WAN	WAN

SCALE: 1 in. = 1000 ft.

FIGURE: App. C

VATC

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton Twp. Crosby Sec.

Owner I. Scherwitz & Sons
Address 569 W.6th St., Cincinnati, Ohio
Well location N.side of Carlisle Ave.

Construction Details	Pumping Test
Casing: Diam. 6" length 170 ft.	Rate: 1
Screen: Cook 10 ft.	Hrs:
Type of pump:	D. D. 1
Capacity:	S.L. 107 ft.
Depth of setting:	Date 8-10-49

Owner's Well No.
Driller Jos. Koehne Sons
Located by cb Date 1950

Remarks

Office No. 503
Log form No. 33689
Quad. W. Cincinnati

STRATA	Depth From	Depth To
Elevation		
Muddy gravel	0	29
Muddy sand & gravel		31
Sand & pea gravel		40
Sand		45
Fine sand		53
Coarse sand		60
Sand & gravel		86
Fine sand no water		101
Fine sand water at 101'		143
Sand & gravel		153
Fine sand & pea gravel		155
Coarse sand, carbon and Gravel		158
Very coarse sand & gravel.		179

3

x 1,426,200
y 413005

* Approximate Location

548
4/7

OHIO WATER SUPPLY BOARD

Well Record No. 141

Co. Hamilton 3 Twp. Cinci 2 Sec.
Well Location Front & Rose Sts. * Size 10"
Map W. Cinci

Owner U. G. & E. Co. Address Cincinnati, O.
Driller Layne-Ohio Date 8/30/39

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: 300 GPM 5 9' Draw-down

Static Level 46' 9" 47 Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 1 of 1940

Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

9931040 STRATA	DEPTH From	DEPTH To
Cinder & Brick Fill	0	6
Clay	6	34
Dirty, Rusty Gravel Sand	34	70
Gray Sand, Gravel, Fine	70	85

3

x 1,426,700
2000 x 2000
y 405000

* Chief Aquifer

490
55+
405

4/2

OHIO WATER SUPPLY BOARD

Well Record No. 136

Co. Hamilton Twp. Cinci Sec.
Well Location NW Corner Plant & Ohio River Size
Map W. Cinci

Owner Cin. Gas & Elec. Co. Address Cincinnat, O.
Driller Layne-Ohio Date 4/18/36

Well Head Elev. or M. P.
Elev. of Ground at Well 480

Pumping Test: ✓

Static Level ~~28~~ 28 Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

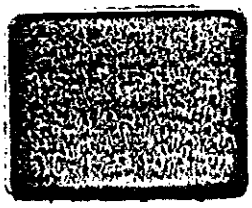
Owner's Well No. or Other Designation Test Well No. 3
[illegible] Para Well No. 4
Source of Data Layne-Ohio
Collected by Ramsay Date 9/1/42

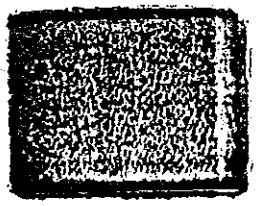
9931038 STRATA	DEPTH From	DEPTH To
Cinders	0	2
Clay & Wood	2	5
Soft Yellow Sandy Clay	5	30
Clay & Gravel	30	38
Gravel, Water	38	50
Fine Sand, Water	50	68
Sand, Gravel, Water	68	88
Fine Sand, Water	88	93
Sand & Gravel, Water	93	103
Broken Limestone & Gravel, Water	103	112
Limerock & Shale	112	116
3		
For Permanent #2		

x 1,426,700
2000 [illegible]
y 4050005

* Chief Aquifer

490
112
378





40

OHIO WATER SUPPLY BOARD

Well Record No. 14[illegible]

Co. Hamilton 31 Twp. Cinci 2 Sec.
Well Location W. Side of Plant Size
Map W. Cinci

Owner Cin. Gas & Elec. Co. Address Cincinnati, O.
Driller Layne-Ohio Date 6/11/36

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: ✓

Static Level ✓ Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation ~~Test Well~~ No. 2 Depth = 2

Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

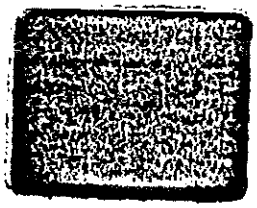
9931033

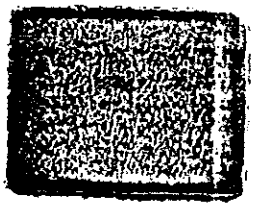
STRATA	DEPTH From	DEPTH To
Cinders, Brick, Clay, Fill	0	8
Yellow Clay	8	18
Yellow Sandy Clay	18	25
Yellow Sand	25	30
Gray Sandy Clay	30	35
Gray Sand, Gravel, Heavy Boulders	35	57
Gray Sand, Fine	57	90
Coarse Sand	90	93
Coarse Gravel	93	109
Oil at 93' Smells Like Creosote		

3

x 1,426,700
[illegible]
Y 4050005

* Chief Aquifer





492
109+
353
35

OHIO WATER SUPPLY BOARD

Well Record No. 138

31 — 2

Co. Hamilton Twp. Cinci Sec.

Well Location On Prop. on Ohio River Size

[illegible] Map W. Cinci

Owner Union Gas & Elec. Co. Address Cincinnati, O.

Driller Layne-Ohio Date 4/24/37

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: ✓

Static Level 38' Date

Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 5 of 1937

GS 297 Perm Well No. #4

Source of Data Layne-Ohio

Collected by Ramsey Date 9/1/42

9931030 STRATA	DEPTH From	DEPTH To
Cinder Fill	0	3
Sand	3	10
Sandy Clay	10	36
Sand & Gravel, Water	36	48
Coarse Gravel & Sand, Water	48	58
Sand, Water	58	93
Coarse Gravel, Water	93	122
Broken Lime, Shale	122	125

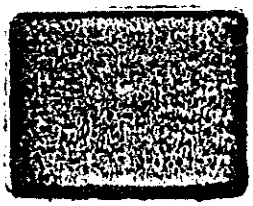
3

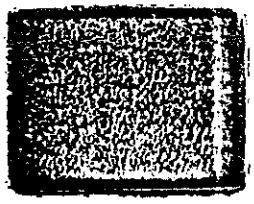
D

X 1,426,700

Y 405 000 S

* Chief Aquifer





490
122
368

32

OHIO WATER SUPPLY BOARD

Well Record No. 146

31

Co. Hamilton Twp. Cinci Sec.

Well Location West End Sta. Size 26"

Map W. Cinci

Owner Cinn.Gas & Elec.Co. Address Cincinnati,O.

Driller Layne-Ohio Date 5/9/41

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: 1080 GPM Pumping Level 69'

17

Static Level 53' Date

Normal Pumpage 600 GPM

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation 1 Replacement

Source of Data Layne-Ohio

Collected by Ramsey Date 8/18/42

9931031 STRATA	DEPTH From	DEPTH To
Fill	0	20
Sand & Clay	20	40
Fine Sand	40	70
Coarse Sand	70	90
*Coarse Sand & Gravel	90	117

3

x 1,426,700

y 405,000.5

* Chief Aquifer

480
117
363
33

OHIO WATER SUPPLY BOARD

Well Record No. 133

o. Hamilton 31 Twp. Cincinnati 2 Sec.
/ell Location West end Sta. NE cor Size
.f Ohio, River Property, Test Hole Map W. Cinci

wner Columbia (Cinci) G. & E. Co Address Cin. Gas & Elec.
riller Date

/ell Head Elev. or M. P. 480
lev. of Ground at Well

mping Test: 5 300 GPM

tic Level 471 or 433 A.D. Date 8/20/09
rmal Pumpage

ality Use

dequacy of supply

Test well - 7
)wner's Well No. or Other Designation U.S.G.S. 297

ource of Data Cinci. Gas & Elec. Co.
ted by R.J.B. Date

9931027 STRATA	DEPTH From	DEPTH To
Fill & Clay	0	25
Sandy Clay	25	34
Sand & Gravel	34	60
Sand & Gravel (rusty)	60	69
Sand, Some Gravel	69	80
Fine Sand & Gravel	80	85
Shale	85	TD

3

The water wells located at the west end station of the Columbia G. & E. are influenced by the rise & fall of the level of the Ohio River. Most of the static levels are near 440' or the level of the Pool Stage the Ohio River.

(D)

x 1,426,700
2000 - 2000
y 405000

* Chief Aquifer

29

300

Office No. 529
Log form No. 9931028
Quad.

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton Twp. 31 2 Sec.

Owner Cincinnati Gas & Electric Co.
Address Cincinnati, Ohio
Well location W. end station

Construction Details	Pumping Test
Casing: Diam. length	Rate: ✓
Screen:	Hrs:
Type of pump:	D. D.
Capacity:	S.L. ✓
Depth of setting:	Date

Owner's Well No.
Driller
ted by Date

Remarks

STRATA	Depth From	Depth To
Elevation		
Yellow clay	0	4
concrete		13
fill & some sandy clay		32
soft blue clay		45
dry gravel, some boulders		57
brown sand, some water		65
brown sand, some gravel water		90
coarse sand & gravel		105
sharp gray sand		119
coarse sand & gravel		116
boulders	116	

X 1,426,100
Y 40[illegible]

* Approximate Location

488
116+
30

Appendix D

Previous Reports

KEEN & CROSS
Environmental Services, Inc.

May 18, 2005

Florence Development, LLC.
P.O. Box 786
Florence, Ky. 41022
Attn: Safi W. Safi

RE: Asbestos Material Survey @ Hudepohl Bldg. 6 801 W. 6th Street

Dear Mr. Safi:

Per your authorization, Keen & Cross Environmental Services, Inc. has conducted an Asbestos Material Study (AMS) for the property located at the above referenced address. It does not include any building other than as identified by you. This letter is to serve as a report of our findings. The study was conducted by Ken Beatty, Ohio Asbestos Evaluation Specialist # 34409.

Note: Only Bldg. 6. was surveyed at this time, other adjacent buildings were not sampled.

The AMS consisted of the following elements: Identification of materials suspected to be asbestos containing; procurement of bulk samples of suspect materials; and analysis of the bulk samples by an accredited laboratory.

REPORT OF FINDINGS

We identified (6) distinct types of materials suspected of being asbestos containing: Plaster, Thermal pipe insulation, debris in pit, fire door, mortor in brick and plaster ceilings. Laboratory analysis of the Bulk samples revealed the following material to be asbestos containing: TSI on ground outside, debris on floor-2nd level, block insulation 2nd floor, fire door and TSI in and around 30 gallon fiber drum on 3rd level. Transite pieces were also observed on 4th level roof, by the edge. All roofs are assumed to contain asbestos and should be kept wet during demolition. Care will also be taken during demolition for materials that might be behind the walls. Attached to this letter are laboratory bulk samples, a bulk sample log and Asbestos Material Inventory.

504 Northland Boulevard • Cincinnati, OH 45240 • (513) 674-1700 • Fax (513) 674-2230

Asbestos containing materials listed above must be removed prior to demolition or renovation. Ten day notifications must be filed with Ohio Dept. of Health and Ohio EPA prior to commencing work. This time frame should be kept in mind while developing a project schedule.

This study was conducted in accordance with applicable federal, state, and local rules and regulations. This report details our findings and is limited to asbestos containing materials. No other environmental studies were conducted nor are implied to be included in this report.

Thank you for the opportunity to perform this study for you. If after review of this report you have any questions or concerns feel free to give me a call at our office, 513-674-1700.

Sincerely

Ken Beatty

Ken Beatty
Project Manager

Attachment:

ASBESTOS MATERIAL INVENTORY

Building: 801 West 6th Street, Hudepohl Bldg.6

Project No. 05-086

	MATERIAL Sample #	LOCATION	QUANTITY
1.	TSI # 02-010	Debris outside of bldg. on hill.	50 SF
2.	TSI # 02-012	2nd floor Bldg. 6 on floor by metal hood.	10 SF
3.	TSI # 02-013	2nd floor Bldg 6 on floor block TSI by metal hood.	2 LF
4.	Fire Door # 04-014	2nd floor Bldg. 6 on ground	32 SF
5.	TSI # 02-015 #02-016	3rd floor, in 30 gal. fiber drum & debris on ground.	25 SF
6.	Transite (Assumed)	4th floor on small roof by edge.	100 SF

Keen & Cross Environmental Services, Inc.
504 Northland Boulevard
Cincinnati, OH 45240

BULK SAMPLING DATA SHEET

Job Name: Hadepohl Job Number: 05-086 Date: 5-13-05

Laboratory: Pinnacle Env. Consultants Inc FORM: 1 OF 3

Address: City / State / Zip:

Phone: (513) 533-1823 Contact: Jim Jones Samples Taken By: Ken Beatty

SAMPLE #	SAMPLE LOCATION	SAMPLE TYPE (TSI, ROOF, ETC.)	NOTES OR COMMENTS	TEST RESULTS
01-001	Bldg Basement	Plaster		
01-002	Bldg Basement	Plaster		
01-003	Bldg Basement	Plaster		
02-004	Basement Bldg	TSI	Black	
02-005	Basement Bldg	TSI	Black	
02-006	Basement Bldg	TSI	Black	
03-007	Bld 6	Debris	In Pit	
03-008	Bld 6	Debris	In Pit	
03-009	Bl 6	Debris	In Pit	
* 02-010	outside Bldg	Debris on Ground TSI	50SF	
01-011	Bldg west Stairwell	Plaster		
* 02-012	Bldg 2nd Floor Bathroom	TSI	Debris on Ground 10SF	
* 02-013	Bldg 2nd Floor Bathroom	TSI Black	Brown (stair on wall) & Fire Door	
* 04-014	Bldg 2nd Floor	Fire Door	on Ground under Fire Door	
* 02-015	Bldg 3rd Floor	TSI	In 30gallon Barrel drum	

Relinquished by	Ken Beatty	Received by	
Company Name	Keen & Cross Environmental Services Inc	Company Name	
Signature	Ken Beatty	Signature	
Title	Inspector	Title	

Keen & Cross Environmental Services, Inc.
504 Northland Boulevard
Cincinnati, OH 45240

BULK SAMPLING DATA SHEET

Job Name: Hodapohl Job Number: 05-086 Date: 5-13-05

Laboratory: Pinnacle Env. Consultants Inc FORM: 2 OF 3

Address: City / State / Zip:

Phone: (573) 533-1823 Contact: Jim Jones Samples Taken By: Ken Boothy

SAMPLE #	SAMPLE LOCATION	SAMPLE TYPE (TSI, ROOF, ETC.)	NOTES OR COMMENTS	TEST RESULTS
* 02-016	Bldg 3rd Floor	TSI Debris	ow Ground Hard Roof Drain 25SF	
01-017	Bldg 4th Floor East wall	Plaster		
05-018 *	Bldg 5th Level	Mortar in Brick		
05-019 *	Bldg 5th Level North	Mortar in Brick		
05-020 *	Bldg 5th Level North	Mortar in Brick		
01-021	Bldg 5th Level North	Plaster		
06-022	Bldg 6th Level	Plaster Ceiling		
06-023	Bldg 6th Level	Plaster Ceiling		
06-024	Bldg 6th Level	Plaster Ceiling		

Relinquished by Ken Boothy Received by

Company Name Keen & Cross Environmental Services Inc Company Name

Signature Ken Boothy Signature

Title Inspector Title

Pinnacle Env. Consultants, Inc.

2088 Ross Avenue

Cincinnati, Ohio 45212

(513) 533-1823

Client: Keen & Cross Env. Services, Inc.

Client Address: 504 Northland Blvd., Cincinnati

Job Name: Hudepohl

Job Number: 05-086

Date Analyzed: 5/16/2005

PLM Test Report

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Matrix
01-001	05B-6290	LT. BROWN	ND	--	CELL	<1	BINDER
01-002	05B-6291	LT. BROWN	ND	--	CELL	<1	BINDER
01-003	05B-6292	LT. BROWN	ND	--	CELL	<1	BINDER
02-004	05B-6293	BLACK/BROWN	ND	--	CELL	<1	BINDER
02-005	05B-6294	BLACK/BROWN	ND	--	CELL	<1	BINDER
02-006	05B-6295	BLACK/BROWN	ND	--	CELL	<1	BINDER
03-007	05B-6296	BLACK/WHITE	ND	--	CELL/HAIR OTHER	10-15/<1 <1	BINDER
03-008	05B-6297	BLACK	ND	--	CELL/OTHR	5-10/1-5	BINDER
03-009	05B-6298	BROWN	ND	--	CELL	<1	BINDER
02-010	05B-6299	WHITE	CHRY/AMOS	5-10/25-35	ND	--	BINDER
01-011	05B-6300	GREY	ND	--	CELL	<1	BINDER
02-012	05B-6301	WHITE	CHRY/CROC	15-25/10-15	CELL	<1	BINDER
02-013	05B-6302	WHITE	CHRY	10-15	FBGL	5-10	BINDER
04-014	05B-6303	WHITE	CHRY/AMOS	5-10/15-25	ND	--	BINDER
02-015	05B-6304	GREY	CHRY	15-25	ND	--	BINDER
02-016	05B-6305	GREY	CHRY	25-35	CELL	<1	BINDER
01-017	05B-6306	GREY	ND	--	CELL	<1	BINDER

Abbreviations: ND-None Detected, SA-Stopped Analysis, NR- Not Received. Asbestos Type:ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, OTHR-Other. Matrix: BIND-Binder (unidentified non-fibrous).

NOTE: PLM should not be used to demonstrate the absence of asbestos in floor tiles.

All samples will be held for sixty (60) days then disposed of unless otherwise requested.

** Denotes that the asbestos content was verified with point counting (EPA/600/R-93/116).

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials.

Multi-layered material which have distinct and separable layers shall be reported separately.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

This report may not be reproduced except in full, without the written approval of this lab.

Turnaround Time: Rush

NVLAP Lab Code: 200614-0

Revised 06/30/04

Analyst Signature: James R. Jones, Microscopist

May 16 2005 10:36AM HP LASERJET FAX

P.2

Pinnacle Env. Consultants, Inc.

2088 Ross Avenue
Cincinnati, Ohio 45212
(513) 533-1823

Client: Keen & Cross Env. Services, Inc.
Client Address: 504 Northland Blvd., Cincinnati
Job Name: Hudepohl
Job Number: 05-086
Date Analyzed: 5/16/2005
Page: 2 of 2

PLM Test Report

Analytical method: Polerized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Matrix
05-018	05B-6307	GREY	ND	--	CELL	<1	BINDER
05-019	05B-6308	GREY	ND	--	CELL	<1	BINDER
05-020	05B-6309	BLUE/LT. GREY	ND	--	CELL	<1	BINDER
01-021	05B-6310	WHITE/GREY	ND	--	CELL	<1	BINDER
06-022	05B-6311	GREY	ND	--	CELL	<1	BINDER
06-023	05B-6312	WHITE/GREY	ND	--	CELL	<1	BINDER
06-024	05B-6313	GREY	ND	--	CELL	<1	BINDER

Abbreviations: ND-None Detected, SA-Stopped Analysis, NR- Not Received. Asbestos Type:ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, OTHR-Other. Matrix: BIND-Binder (unidentified non-fibrous).

NOTE: PLM should not be used to demonstrate the absence of asbestos in floor tiles.

All samples will be held for sixty (60) days then disposed of unless otherwise requested.

** Denotes that the asbestos content was verified with point counting (EPA/600/R-93/116).

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials.

Multi-layered material which have distinct and separable layers shall be reported separately.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

This report may not be reproduced except in full, without the written approval of this lab.

Turnaround Time: Rush

NVLAP Lab Code: 200614-0

Revised 06/30/04

Analyst Signature: James R. Jones, Microscopist

May 16 2005 10:36AM HP LASERJET FAX

Pinnacle Env. Consultants, Inc.

2088 Ross Avenue

Cincinnati, Ohio 45212

(513) 533-1823

Client: Keen & Cross Env. Services, Inc.

Client Address: 504 Northland Blvd., Cincinnati

Job Name: Hudepohl

Job Number: 05-086

Date Analyzed: 5/17/2005

Page: 1 of 1

PLM Test Report

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Matrix
07-025	05B-6370	WHITE/GREY	ND	--	CELL	<1	BINDER
07-026	05B-6371	WHITE/GREY	ND	--	CELL	<1	BINDER
07-027	05B-6372	WHITE/GREY	ND	--	CELL	<1	BINDER
02-028	05B-6373	BROWN	ND	--	FBGL	5-10	BINDER
02-029	05B-6374	BROWN	ND	--	FBGL/OTHR	5-10/<1	BINDER
02-030	05B-6375	WHITE	CHRY	5-10	FBGL	5-10	BINDER

Abbreviations: ND-None Detected, SA-Stopped Analysis, NR- Not Received. Asbestos Type:ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, OTHR-Other. Matrix: BIND-Binder (unidentified non-fibrous).

NOTE: PLM should not be used to demonstrate the absence of asbestos in floor tiles.

All samples will be held for sixty (60) days then disposed ofunless otherwise requested.

** Denotes that the asbestos content was verified with point counting (EPA/600/R-93/116).

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials.

Multi-layered material which have distinct and separable layers shall be reported separately.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

This report may not be reproduced except in full, without the written approval of this lab.

Turnaround Time: Rush

NVLAP Lab Code: 200614-0

Revised 06/30/04

Analyst Signature:

James R. Jones, Microscopist

MAY 17 2005 12:34PM HP LASERJET FAX

P.1

Keen & Cross Environmental Services, Inc.
504 Northland Boulevard
Cincinnati, OH 45240

BULK SAMPLING DATA SHEET

Job Name: Hodepohl Job Number: 05-086 Date: 5-17-05

Laboratory: Pinnacle Env. Consultants FORM: 3 OF 3

Address: City / State / Zip:

Phone: (573) 533-1823 Contact: Jim Jones Samples Taken By: Ken Beatty

SAMPLE #	SAMPLE LOCATION	SAMPLE TYPE (TSI, ROOF, ETC.)	NOTES OR COMMENTS	TEST RESULTS
07-025	outside NW (Middle) Bldg 6	Wall - Stucco		
07-026	outside NW (Northend) Bldg 6	Wall - Stucco		
07-027	outside NW (Southend) Bldg 6	Wall - Stucco		
02-028	5th Level Bld 6	TSI Block	Brown Appr. 60LF	
02-029	5th Level Bld 6	TSI Block	Brown	
02-030	2nd Level Bld 6	TSI Block white	Brown Stub on wall 2LF (Pieces on Ground)	

Relinquished by: Ken Beatty 5-17-05 Received by: Jim Jones

Company Name: Keen + Cross Environmental Services Company Name: Pinnacle Env.

Signature: Ken Beatty Signature:

Title: Inspector Title:

May 17 2005 12:34PM HP LASERJET FAX

Pinnacle Environmental Consultants, Inc.

Ph: 513-533-1823 / Fax: 513-533-1859

Analysis Request Form

Submission Date: May 17 2005 Time: _____

Submitted By: Keen + Cross

Analysis Requested:

a) Air – PCM (b) Bulk – PLM c) Other: _____

Turnaround Time:

Normal (2-4 days) (Rush (24 hours)) Emergency Rush (1/2 hour per sample)

Total Number of Samples: 6

Condition of Samples Upon Receipt: (Good) (Poor) – (Accept) (Reject)

Project Name/No.: Hodepohl / 05-086

Sample I.D.: 07-025-027, 02-028-030

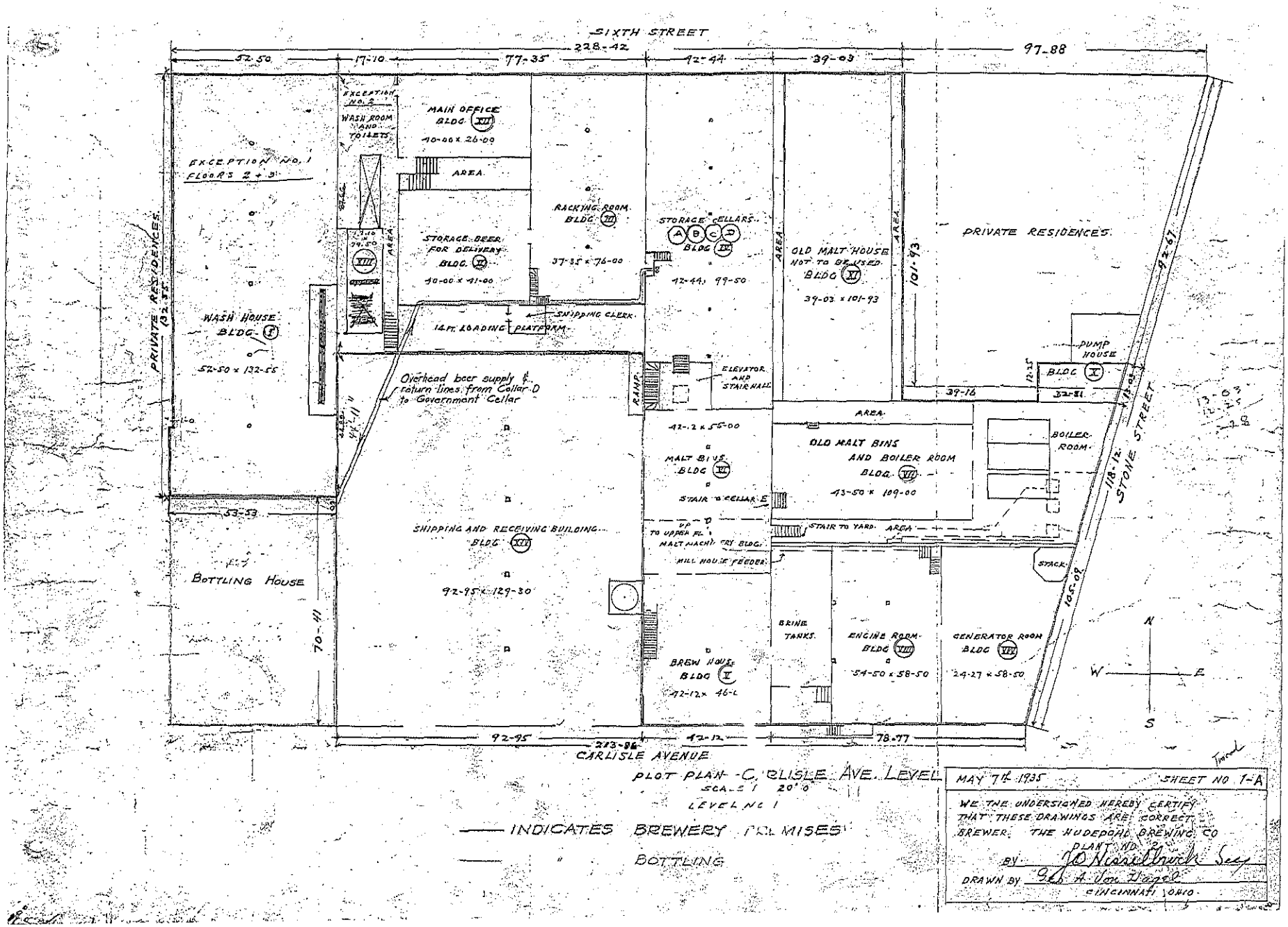
Bill To: Keen + Cross

Report To: _____ Phone: _____ Fax: 674-2230

Chain of Custody

Relinquished By:	Date/Time:	Received By:	Date/Time:
		Molly Jones	5-17-05/9:40
	5-17-05/12:30PM		

Lab Number: 05B 6370-6375



PLOT PLAN - CARLISLE AVE. LEVEL

SCALE 1" = 20'-0"

LEVEL NO 1

—— INDICATES BREWERY PREMISES

—— " BOTTLING

MAY 7th 1935 SHEET NO 1-A

WE THE UNDERSIGNED HEREBY CERTIFY THAT THESE DRAWINGS ARE CORRECT.

BREWER THE HUDEPOHL BREWING CO

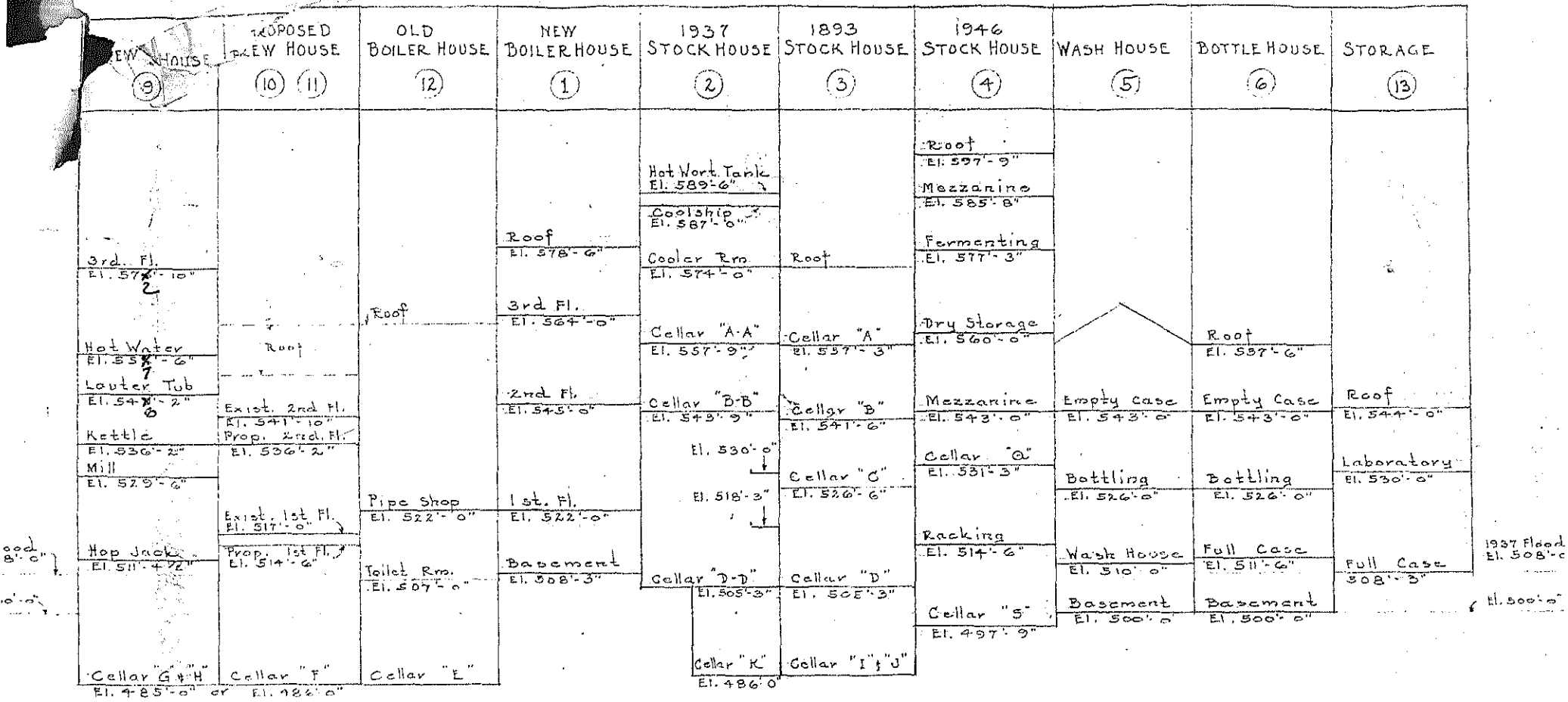
PLANT NO 2

BY J.O. Niederbruch Secy

DRAWN BY Geo A Von Plagel

CINCINNATI, OHIO.

· B U I L D I N G ·



· B U I L D I N G · F L O O R · E L E V A T I O N S ·

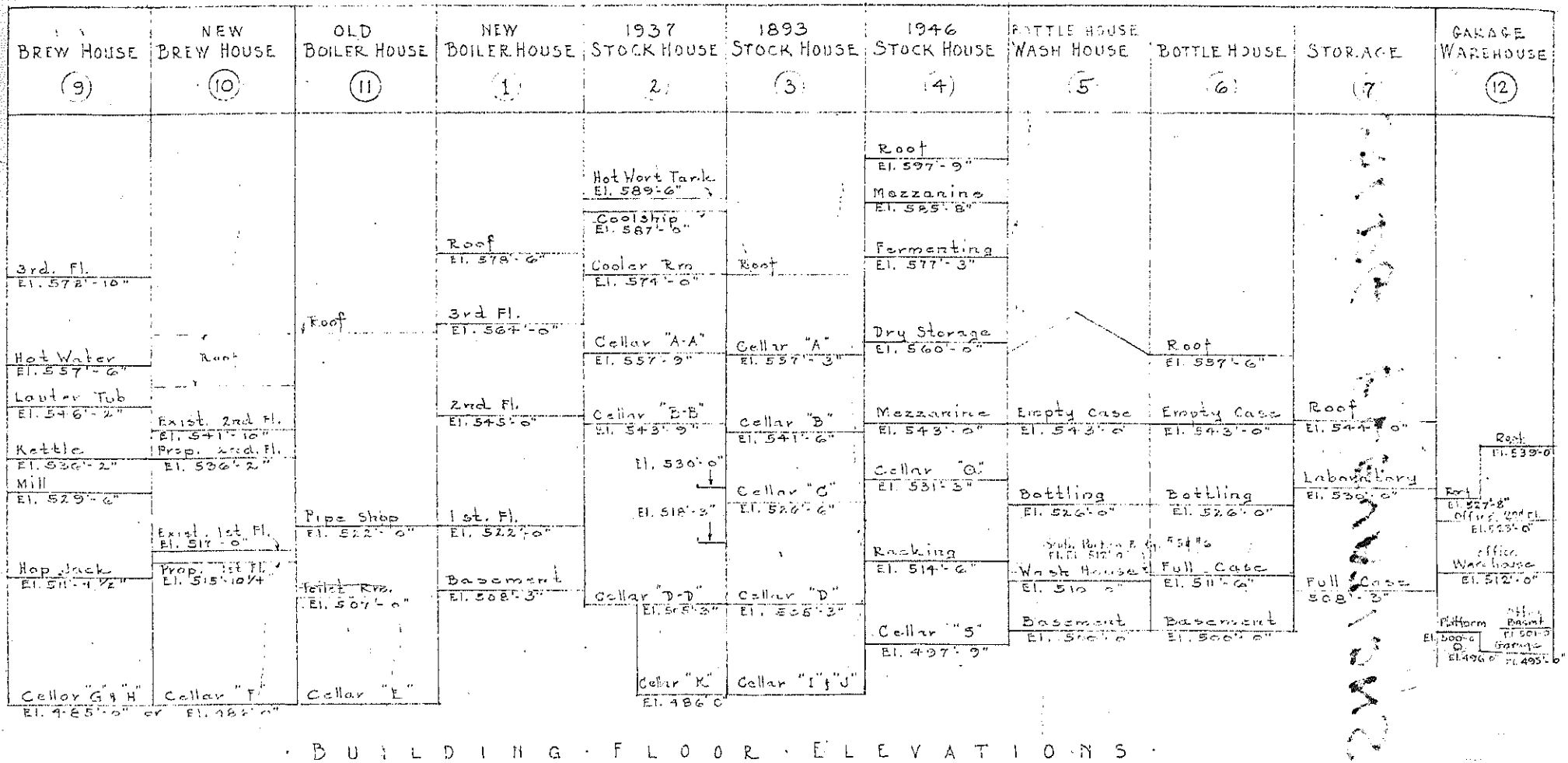
· T H E · H U D E P O H L · B R E W I N G · C O. ·

· N E L S O N · F E L S B E R G · A . I . A . ·

· A R C H I T E C T ·

· M A R C H · 9 · 5 9 ·

BUILDING

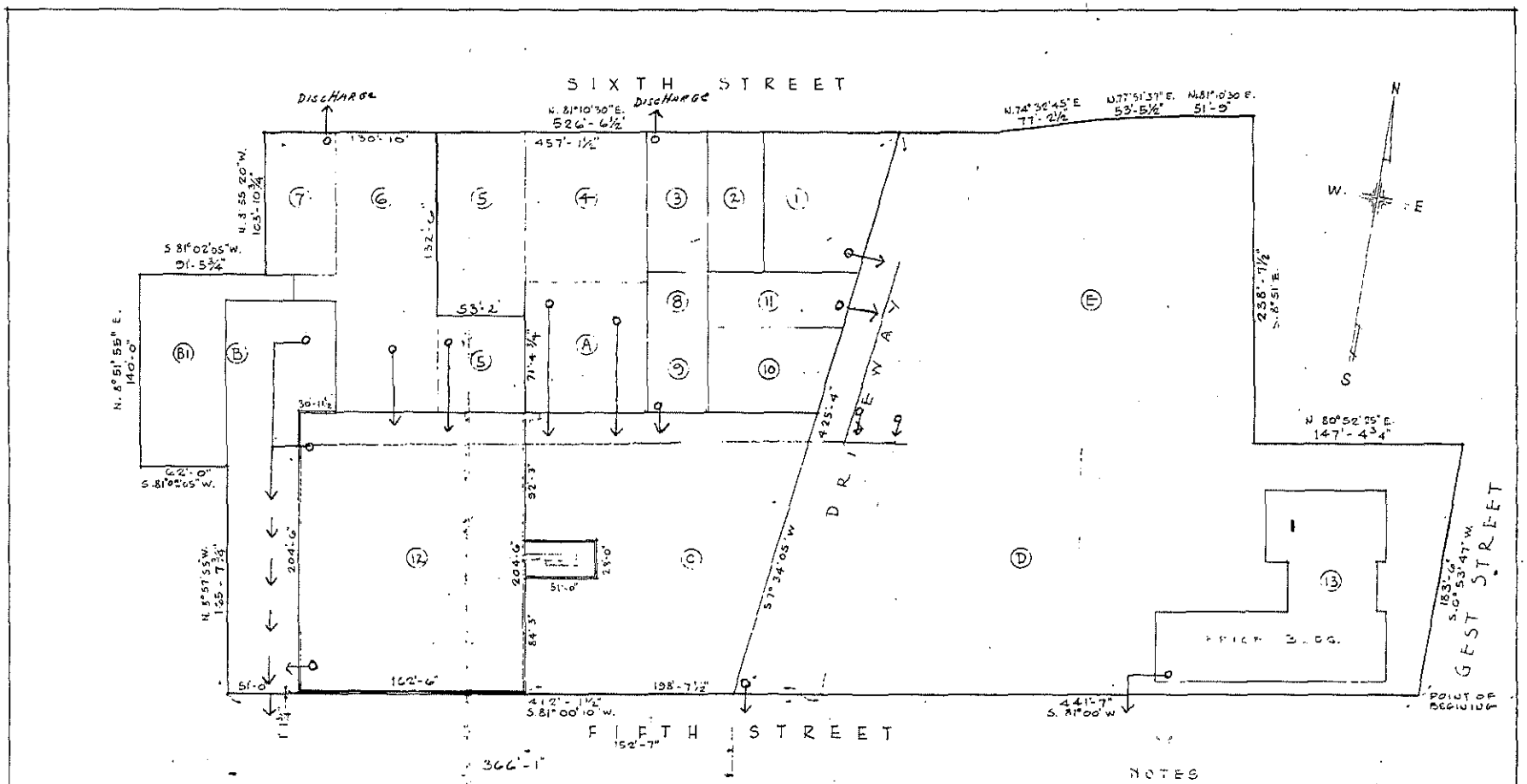


BUILDING FLOOR ELEVATIONS

THE HUDEPOHL BREWING CO.

NELSON FELSBERG A.I.A.
ARCHITECT

AUGUST 26 1964



NOTES
Green = Brewery Premises
Brown = Brewery Bottling House Premises

Sewer Discharge Points
3 Discharge to 5th St
2 Discharge to 6th St

GENERAL PLOT PLAN

Scale 1" = 60'-0"

THE HUDEPOHL BREWING CO.

FIFTH & GEST STREETS

CITY OF CINCINNATI, COUNTY OF HAMILTON, OHIO

NELSON FELSBERG AIA ARCHITECT

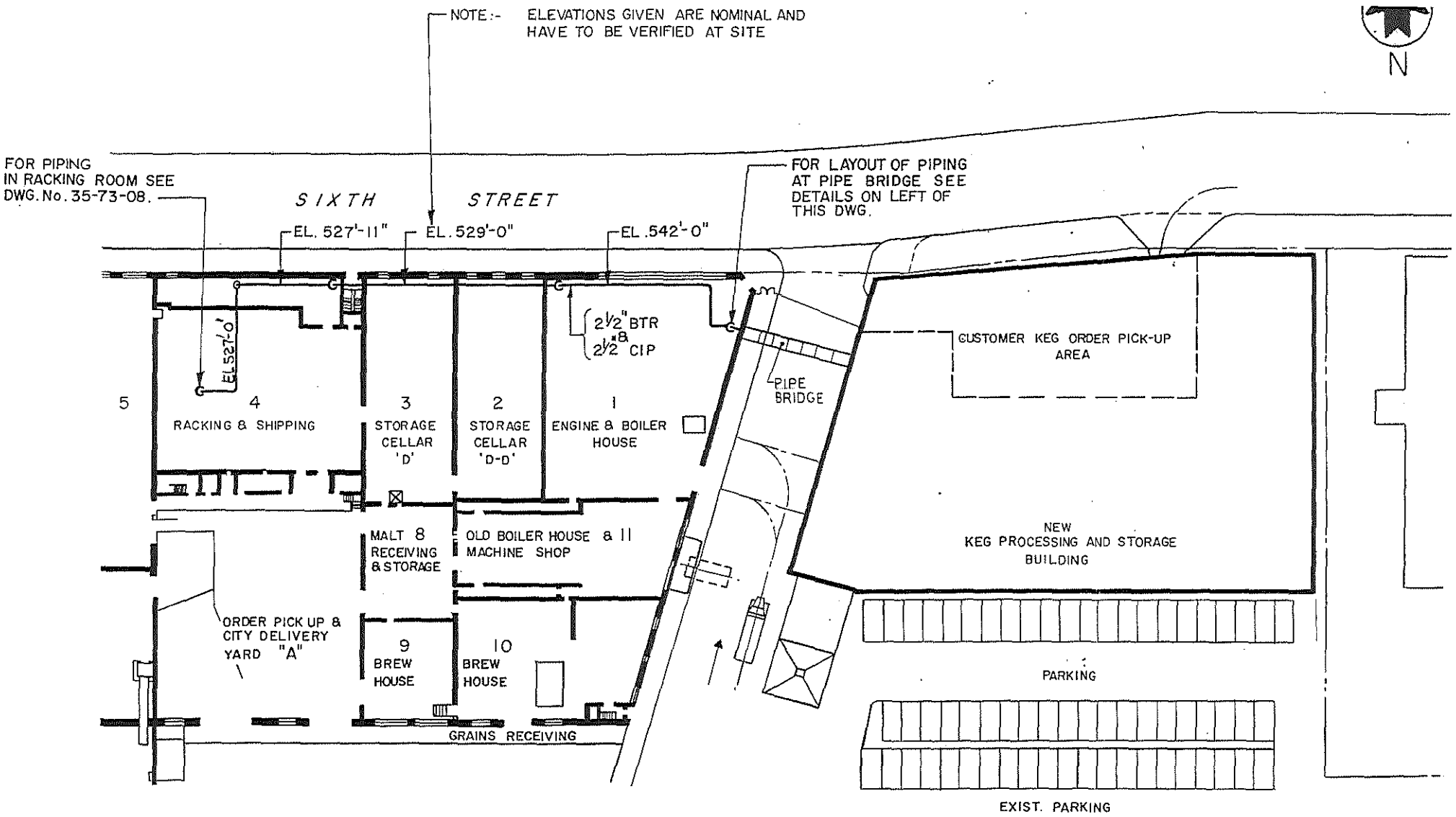
Revised September 3 1974 June 26 1967 Sheet I

Aproved 1967 The Hudepohl Brewing Co
Fifth & Gest Streets
Cincinnati, Ohio

Assistant Regional Commissioner

Accuracy Certified by Atty in fact for the Brewery

Draftsman



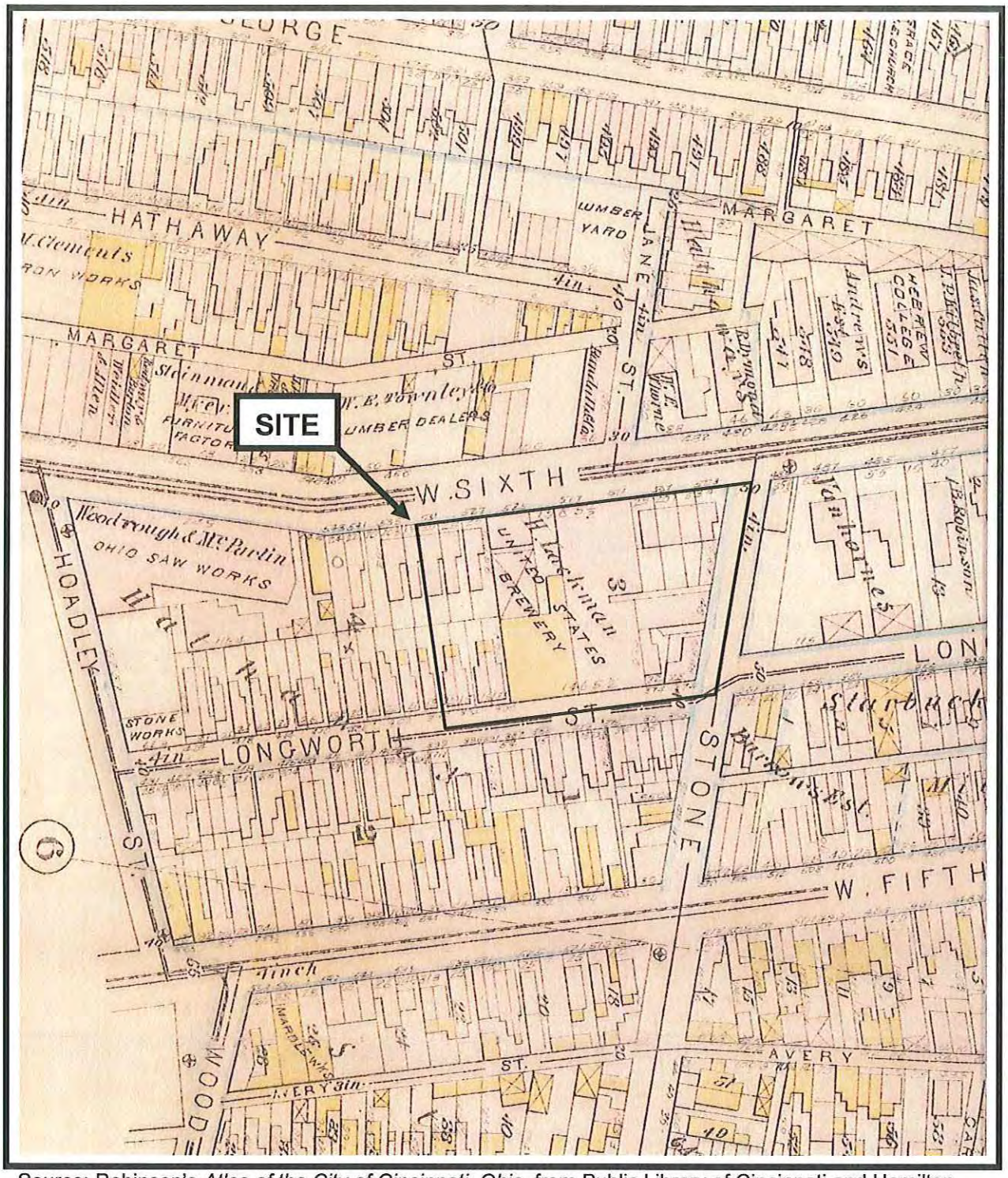
Kappele Wright & MacLeod Inc.
James D. Wichman & Assoc.
"New Keg Room"
34-10-01 1984
Pipe Routing and Tie-In Details

ROUTING OF 2½" BTR & 2½" CIP THRU EXISTING BUILDING

4
34-10-01 | 34-10-01

Appendix E

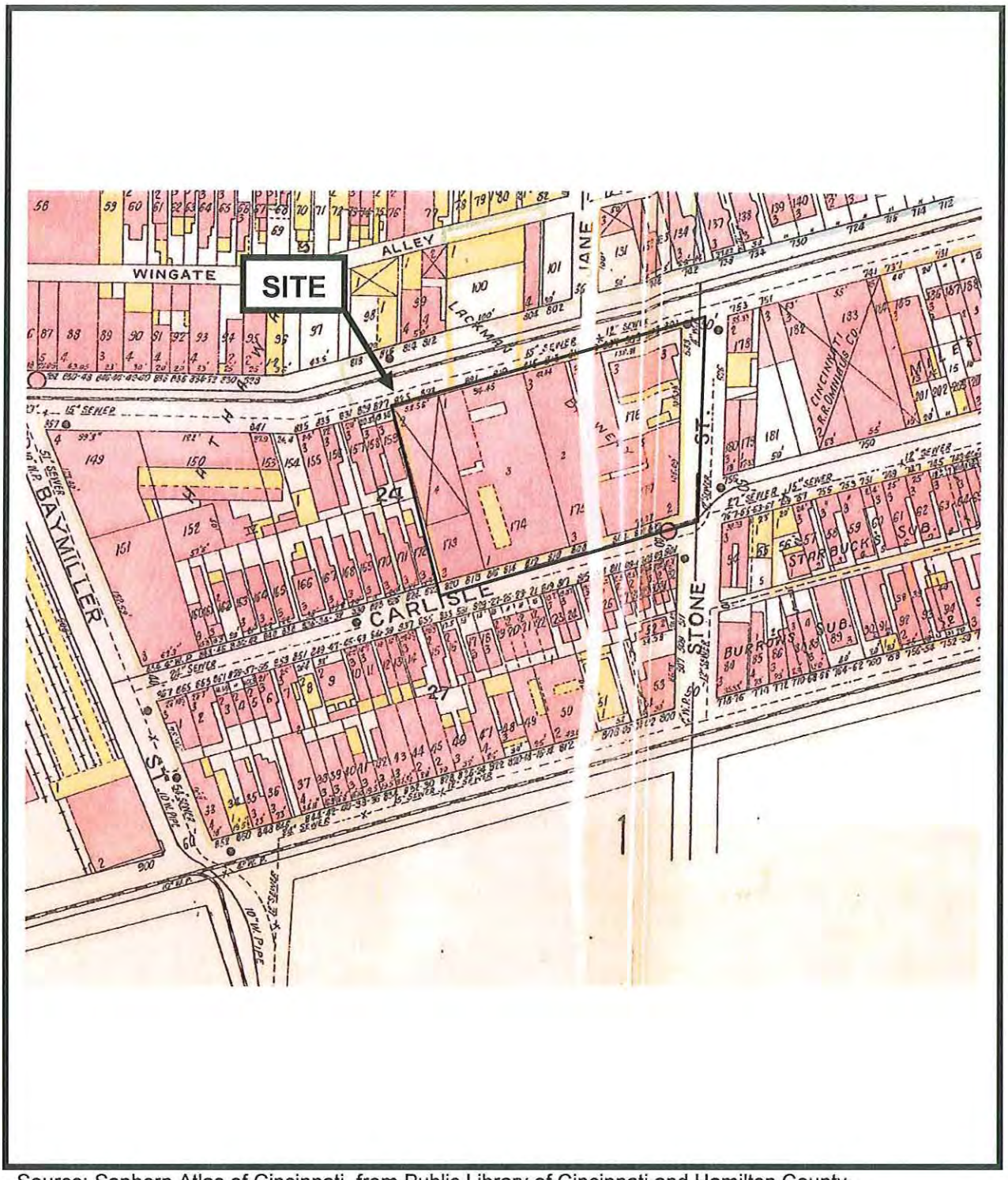
Sanborn / Historical Maps



Source: Robinson's *Atlas of the City of Cincinnati, Ohio*, from Public Library of Cincinnati and Hamilton County.

Historical Map - 1883-84
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 170 ft.			
FIGURE: App. E			

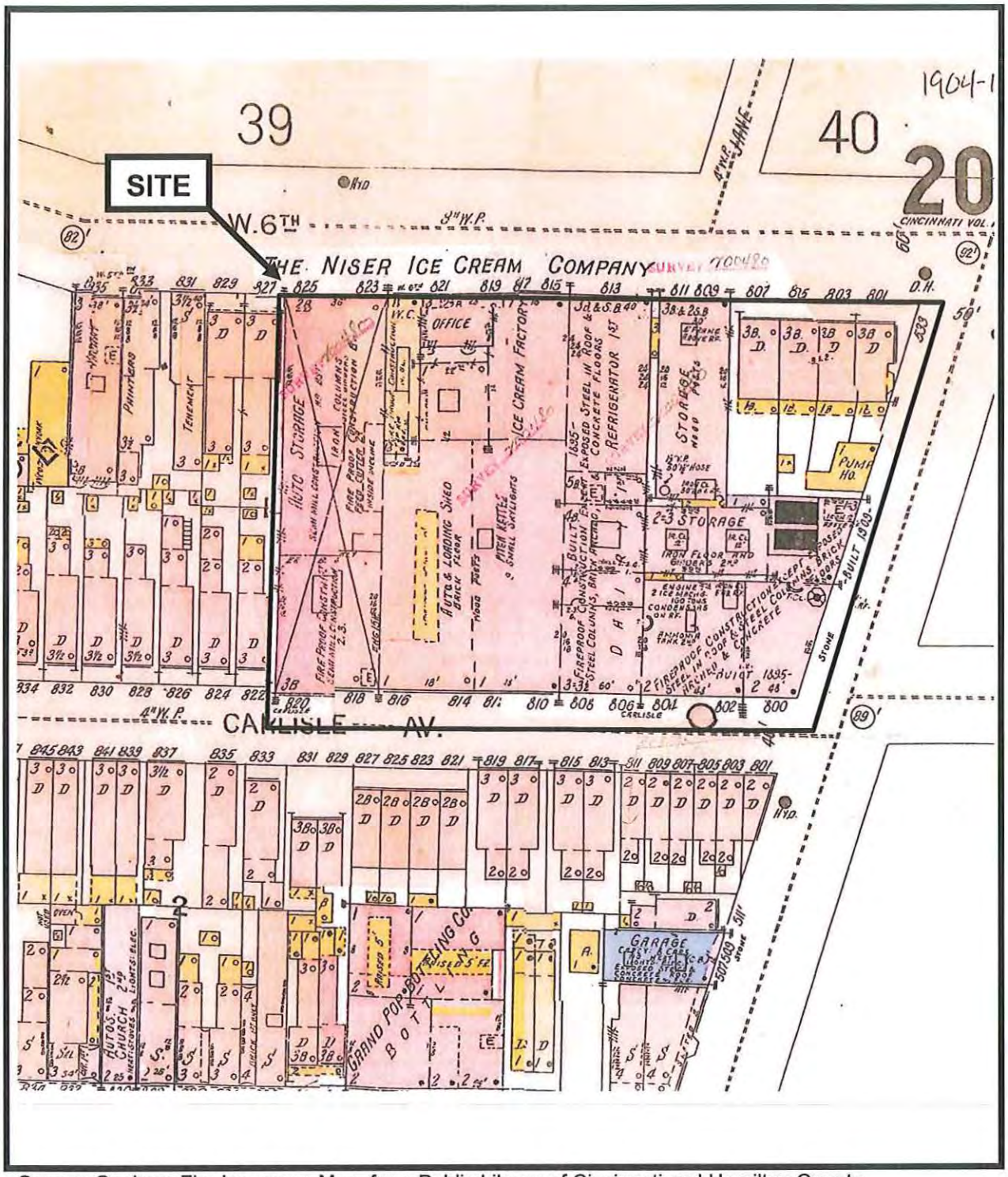


Source: Sanborn Atlas of Cincinnati, from Public Library of Cincinnati and Hamilton County.

Historical Map - 1922
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 170 ft.			
FIGURE: App. E			

VATC



Source: Sanborn Fire Insurance Map, from Public Library of Cincinnati and Hamilton County.

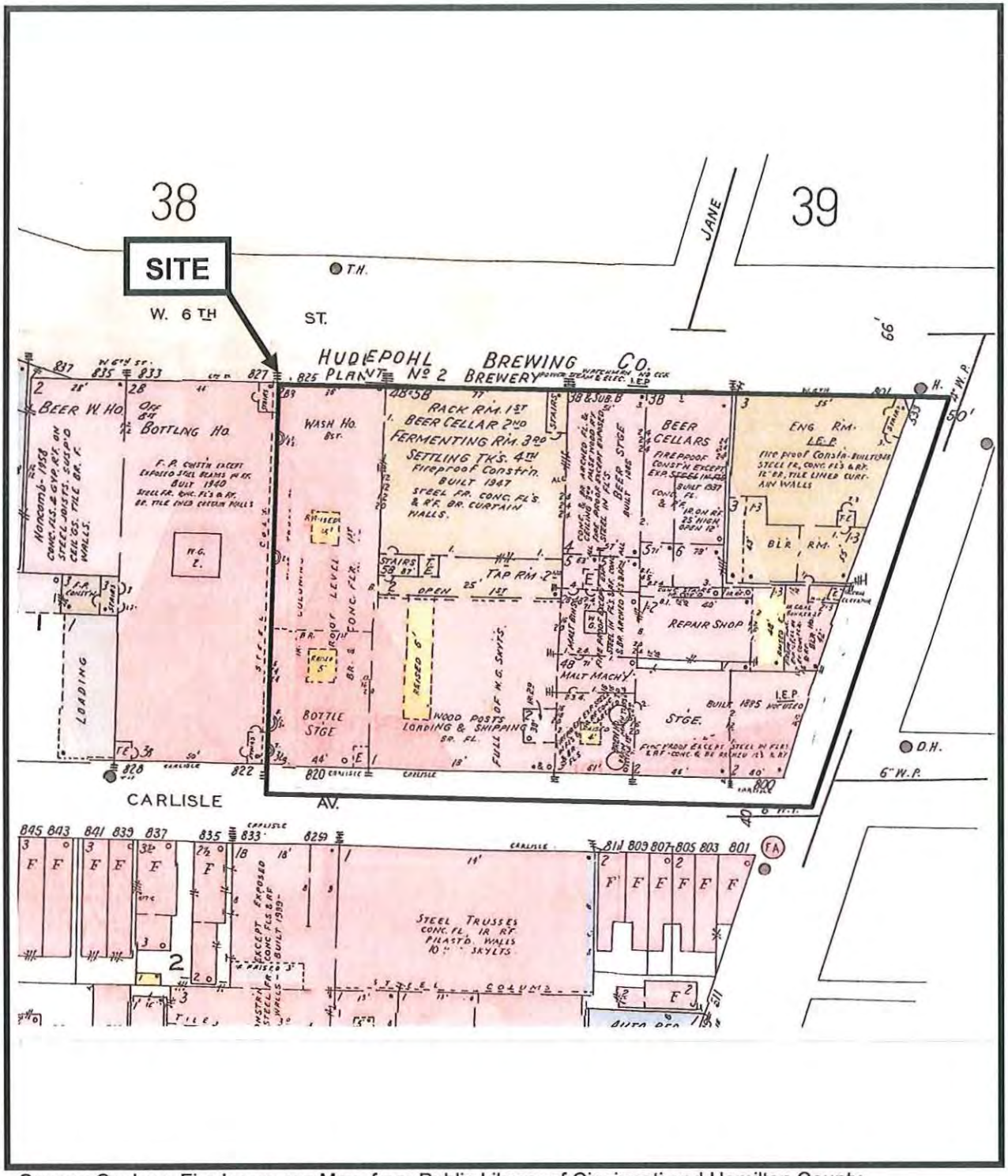
Historical Map - 1904, revised 1930
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan

SCALE: 1 in. ~ 80 ft.

FIGURE: App. E

VATC



Source: Sanborn Fire Insurance Map, from Public Library of Cincinnati and Hamilton County.

Historical Map - 1934, revised 1961
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 80 ft.			
FIGURE: App. E			

VATC

Former Hudepohl Site
801 West Sixth Street
Cincinnati, OH 45203

Inquiry Number: 2575940.3
August 28, 2009

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

8/28/09

Site Name:
Former Hudepohl Site
801 West Sixth Street
Cincinnati, OH 45203

Client Name:
ATC Associates Inc. #72
11121 Canal Road
Cincinnati, OH 45241

EDR® Environmental Data Resources Inc

EDR Inquiry # 2575940.3

Contact: Bill Norris

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by ATC Associates Inc. #72 were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Former Hudepohl Site
Address: 801 West Sixth Street
City, State, Zip: Cincinnati, OH 45203
Cross Street:
P.O. # NA
Project: former Hudepohl
Certification # FC86-45E7-8A9E

Sanborn® Library search results
Certification # FC86-45E7-8A9E

Maps Provided:

1981
1950
1934
1922
1891
1887

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

Limited Permission To Make Copies

ATC Associates Inc. #72 (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2009 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

· Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.

· All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.

· We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.

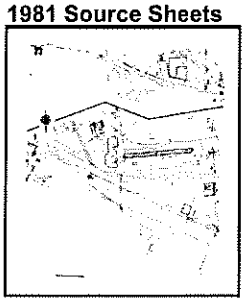
· A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

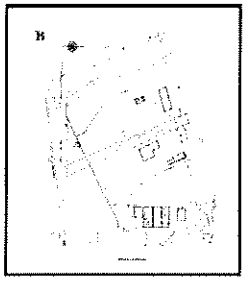
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

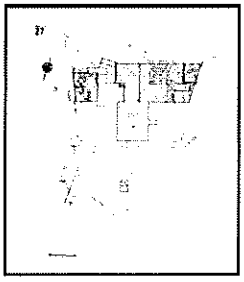
1981 Source Sheets



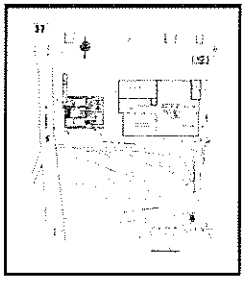
Volume 1, Sheet 23



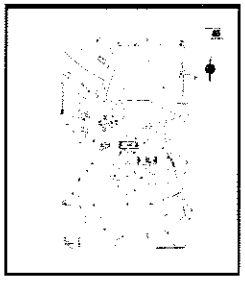
Volume 1, Sheet 25



Volume 1, Sheet 27

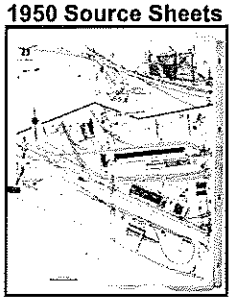


Volume 1, Sheet 37

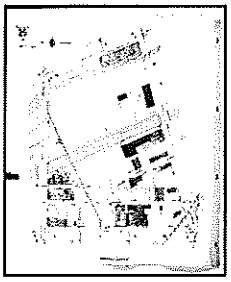


Volume 1, Sheet 46

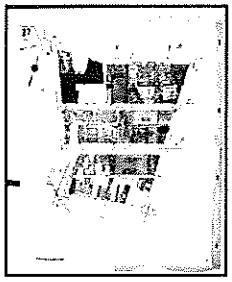
1950 Source Sheets



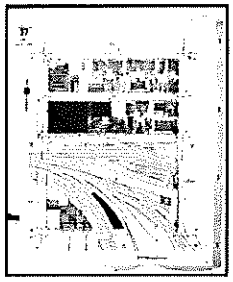
Volume 1, Sheet 23



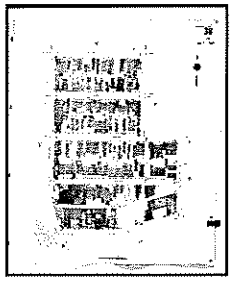
Volume 1, Sheet 25



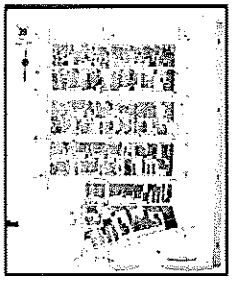
Volume 1, Sheet 27



Volume 1, Sheet 37

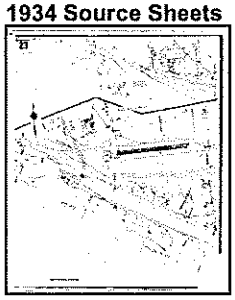


Volume 1, Sheet 38

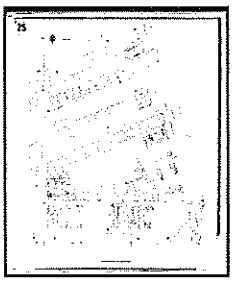


Volume 1, Sheet 39

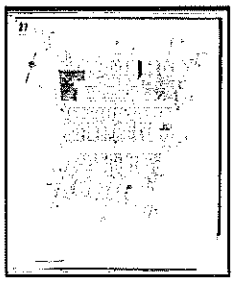
1934 Source Sheets



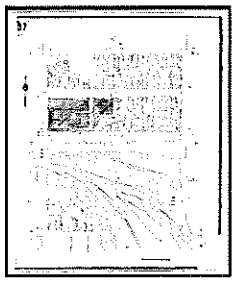
Volume 1, Sheet 23



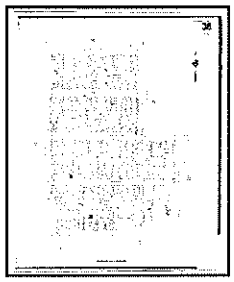
Volume 1, Sheet 25



Volume 1, Sheet 27

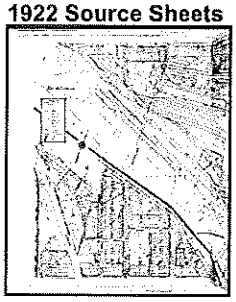


Volume 1, Sheet 37

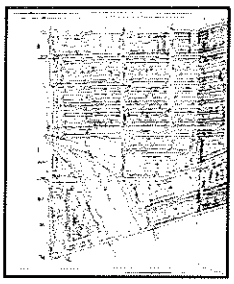


Volume 1, Sheet 38

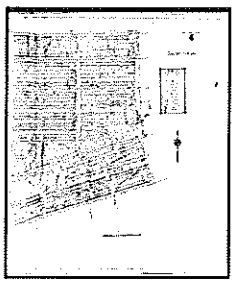
1922 Source Sheets



Volume 1, Sheet 1

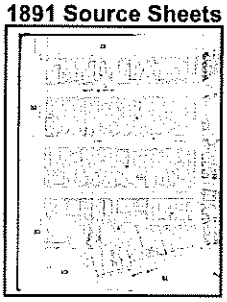


Volume 1, Sheet 4

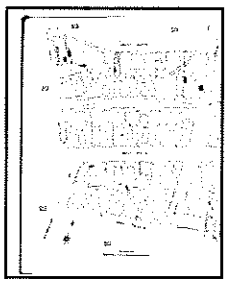


Volume 1, Sheet 4

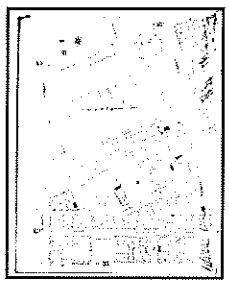
1891 Source Sheets



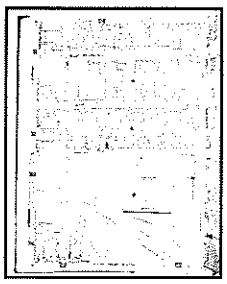
Volume 1, Sheet 15



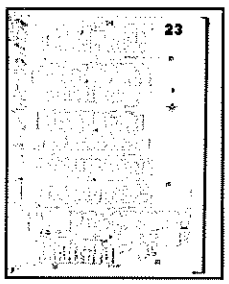
Volume 1, Sheet 21



Volume 1, Sheet 22

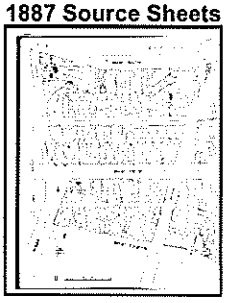


Volume 1, Sheet 23



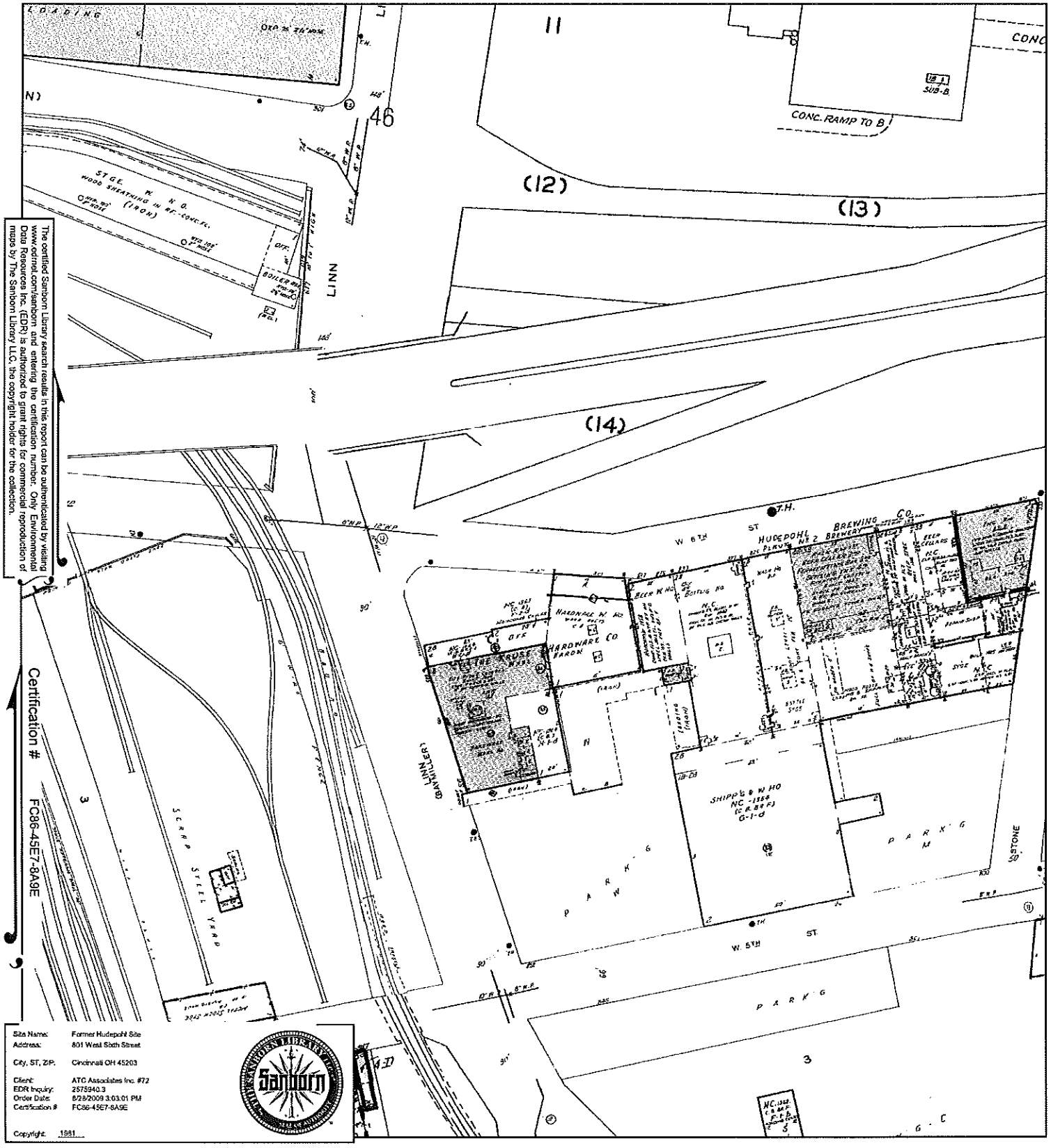
Volume 1, Sheet 23

1887 Source Sheets



Volume 1, Sheet 12

1981 Certified Sanborn Map

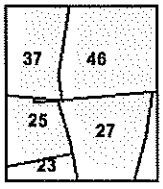


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # FC86-45E7-8A9E

Site Name:	Former Hudepohl Site
Address:	801 West Sixth Street
City, ST, ZIP:	Cincinnati OH 45203
Client:	ATC Associates Inc. #72
EDR Inquiry:	2575940.3
Order Date:	8/28/2009 3:03:01 PM
Certification #	FC86-45E7-8A9E
Copyright:	1981

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 1, Sheet 23
Volume 1, Sheet 25
Volume 1, Sheet 27
Volume 1, Sheet 37
Volume 1, Sheet 46

0 Feet 150 300 600

N

1950 Certified Sanborn Map

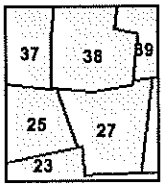
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # FC86-45E7-8A9E

Site Name:	Former Hudepohl Site
Address:	601 West Sixth Street
City, ST, ZIP:	Cincinnati OH 45203
Client:	ATC Associates Inc. #72
EDR Inquiry:	2575940.3
Order Date:	8/28/2009 3:03:01 PM
Certification #:	FC86-45E7-8A9E
Copyright:	1950

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

0 Feet 150 300 600



Volume 1, Sheet 23
Volume 1, Sheet 25
Volume 1, Sheet 27
Volume 1, Sheet 37
Volume 1, Sheet 38
Volume 1, Sheet 39

1934 Certified Sanborn Map

The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

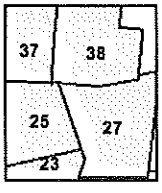
Certification # FC86-45E7-8A9E

Site Name:	Former Hudepohl Site
Address:	801 West Sixth Street
City, ST, ZIP:	Cincinnati OH 45203
Client:	ATC Associates Inc. #72
EDR Inquiry:	2575940.3
Order Date:	8/28/2009 3:03:01 PM
Certification #	FC86-45E7-8A9E

Copyright 1934

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

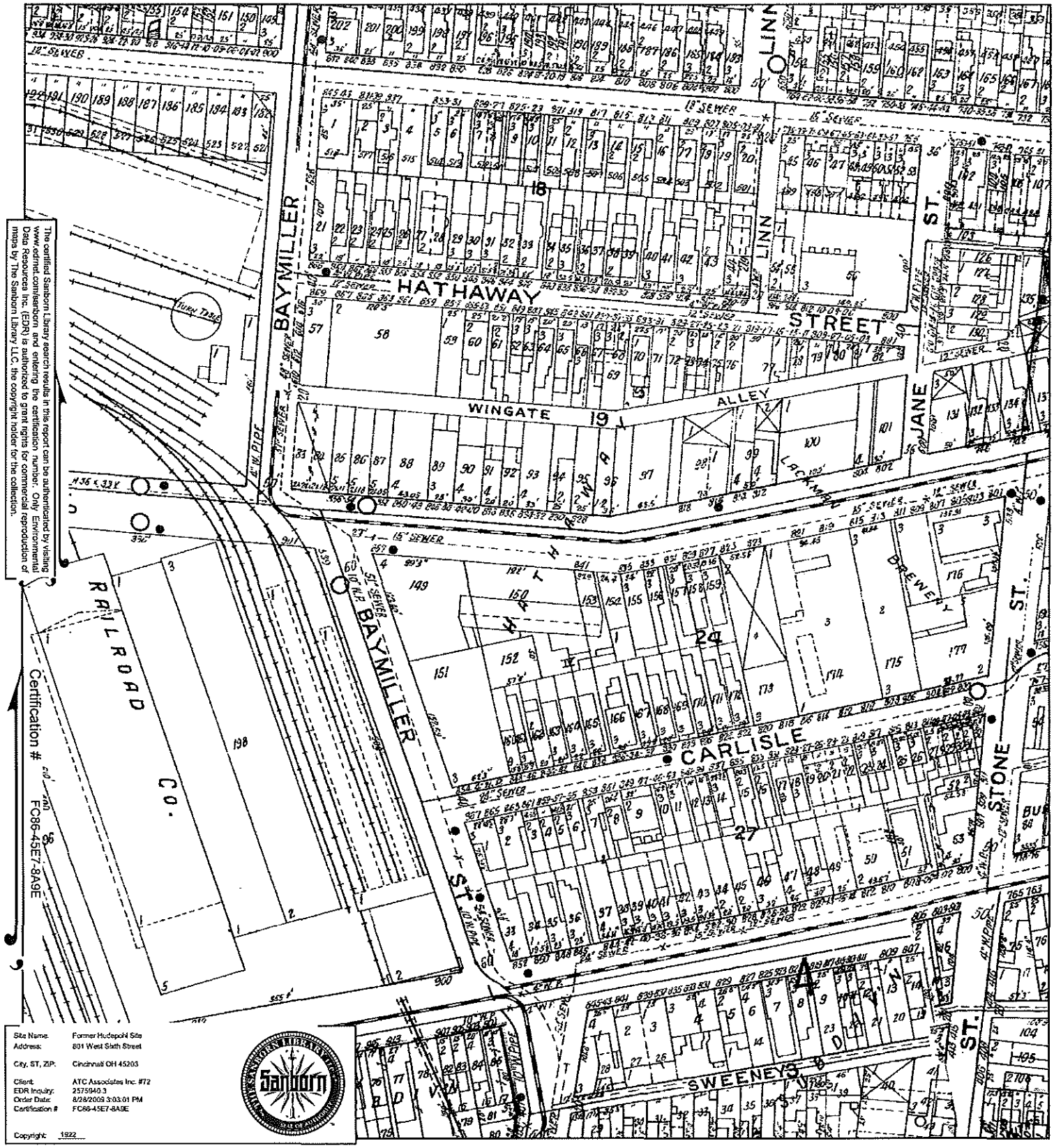
0 Feet 150 300 600



Volume 1, Sheet 23
Volume 1, Sheet 25
Volume 1, Sheet 27
Volume 1, Sheet 37
Volume 1, Sheet 38

N

1922 Certified Sanborn Map



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

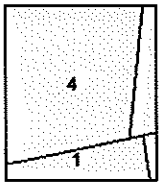
Certification # FC86-45E7-8A9E

Site Name:	Former Hudepohl Site
Address:	801 West Sixth Street
City, ST, ZIP:	Cincinnati OH 45203
Client:	ATC Associates Inc. #72
EDR Inquiry:	2575940.3
Order Date:	8/28/2009 3:03:01 PM
Certification #:	FC86-45E7-8A9E

Copyright: 1922

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

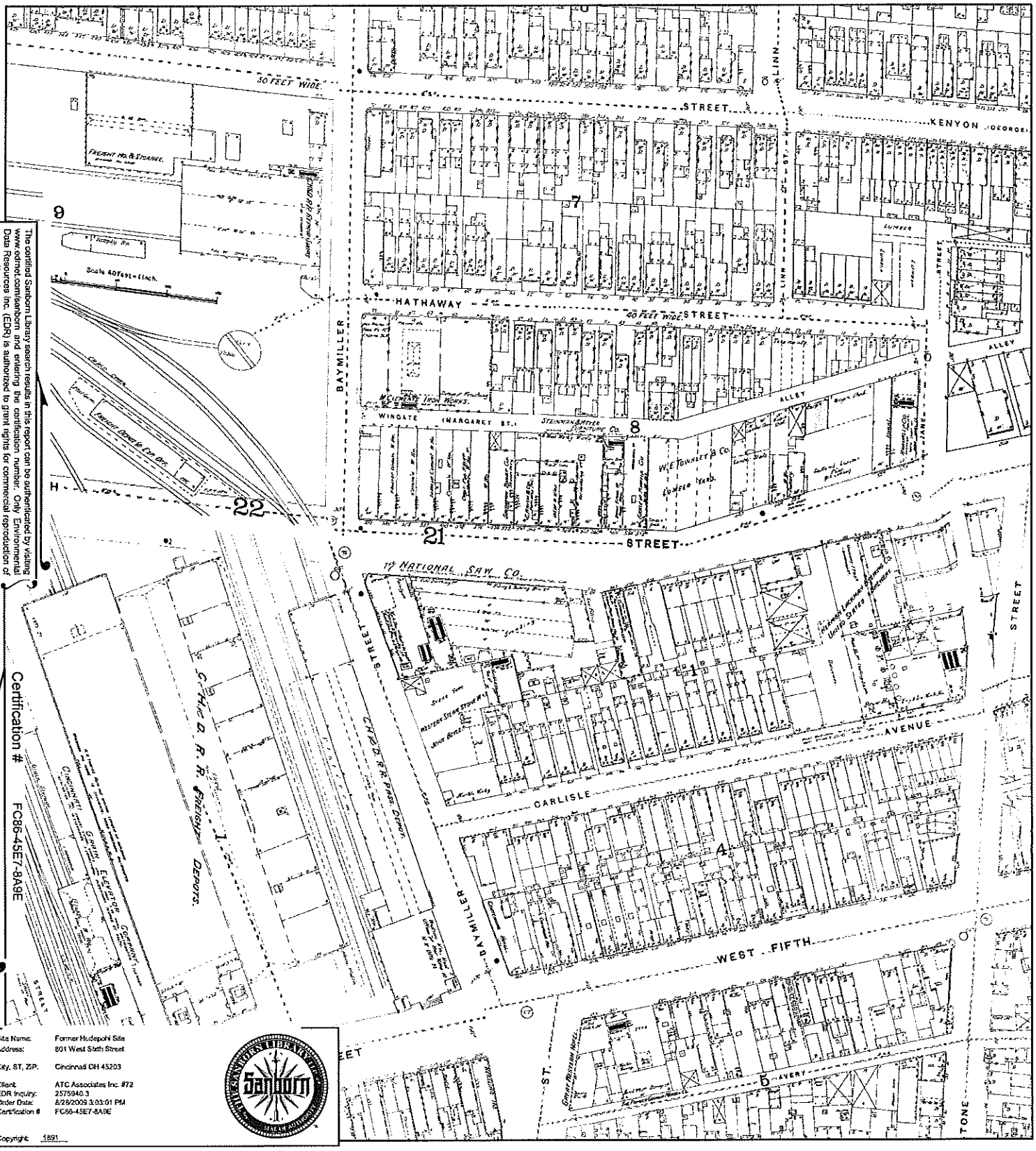
0 Feet 150 300 600



Volume 1, Sheet 1
Volume 1, Sheet 4
Volume 1, Sheet 4

N

1891 Certified Sanborn Map



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

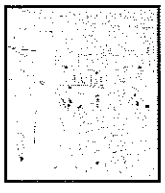
Certification # FC86-45E7-8A9E

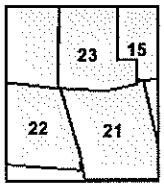
Site Name:	Former Hudepohl Site
Address:	801 West Sixth Street
City, ST, ZIP:	Cincinnati OH 45203
Client:	ATC Associates Inc. #72
EDR Inquiry:	2575940.3
Order Date:	8/28/2009 3:03:01 PM
Certification #	FC86-45E7-8A9E

Copyright: 1891

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

0 Feet 150 300 600





Volume 1, Sheet 15
Volume 1, Sheet 21
Volume 1, Sheet 22
Volume 1, Sheet 23
Volume 1, Sheet 23

N

1887 Certified Sanborn Map

The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

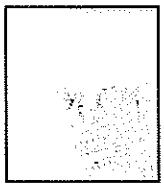
Certification # FC86-45E7-8A9E

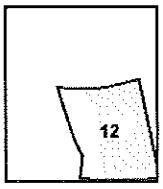
Site Name:	Former Hudepohl Site
Address:	601 West Sixth Street
City, ST, ZIP:	Cincinnati OH 45203
Client:	ATC Associates Inc. #72
EDR Inquiry:	2575940.3
Order Date:	8/28/2009 3:03:01 PM
Certification #:	FC86-45E7-8A9E

Copyright: 1887

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

0 Feet 150 300 600



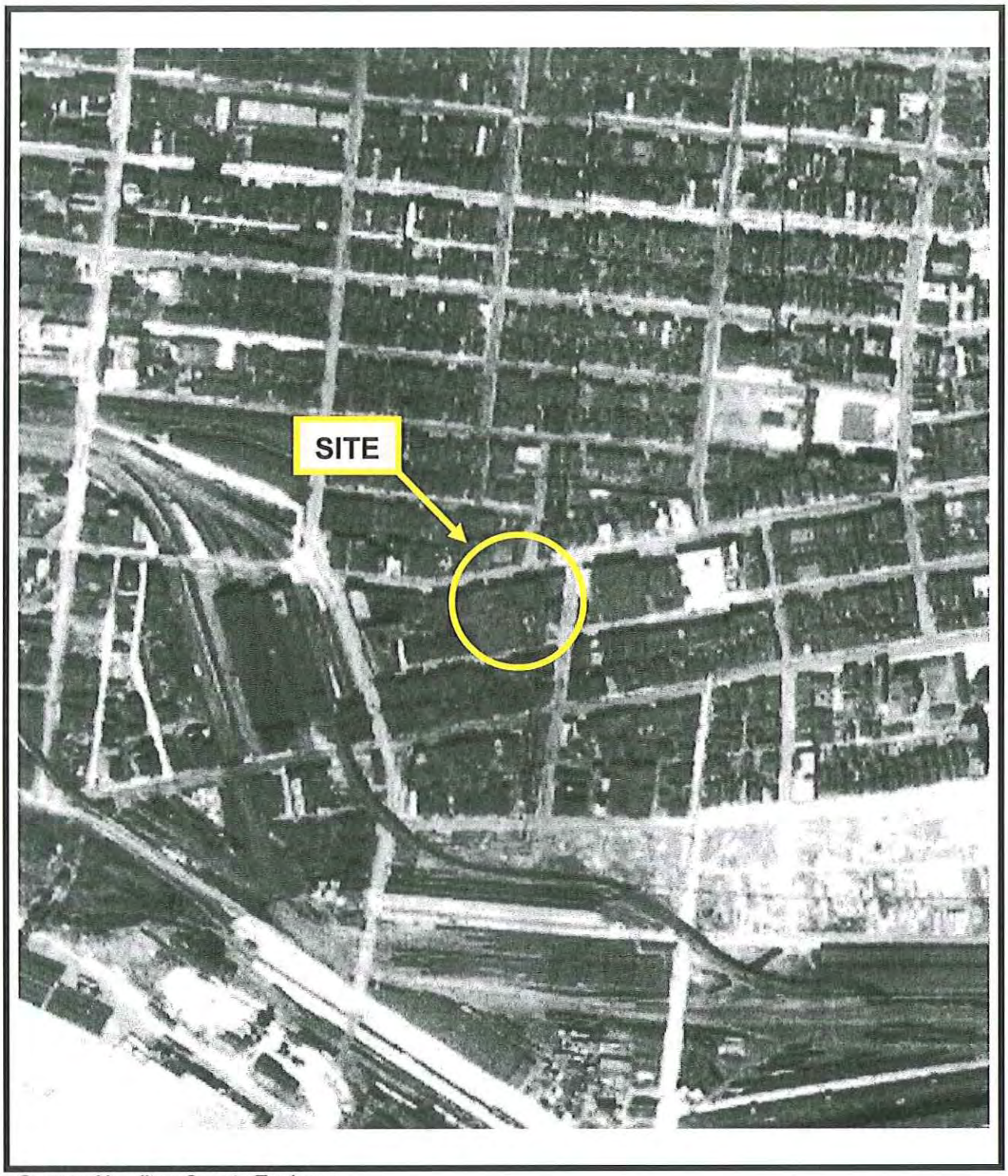


Volume 1, Sheet 12

N

Appendix F

Aerial Photographs



Source: Hamilton County Engineer.

AERIAL PHOTOGRAPH - 1932
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan

SCALE: 1 in. ~ 450 ft.

FIGURE: App. F

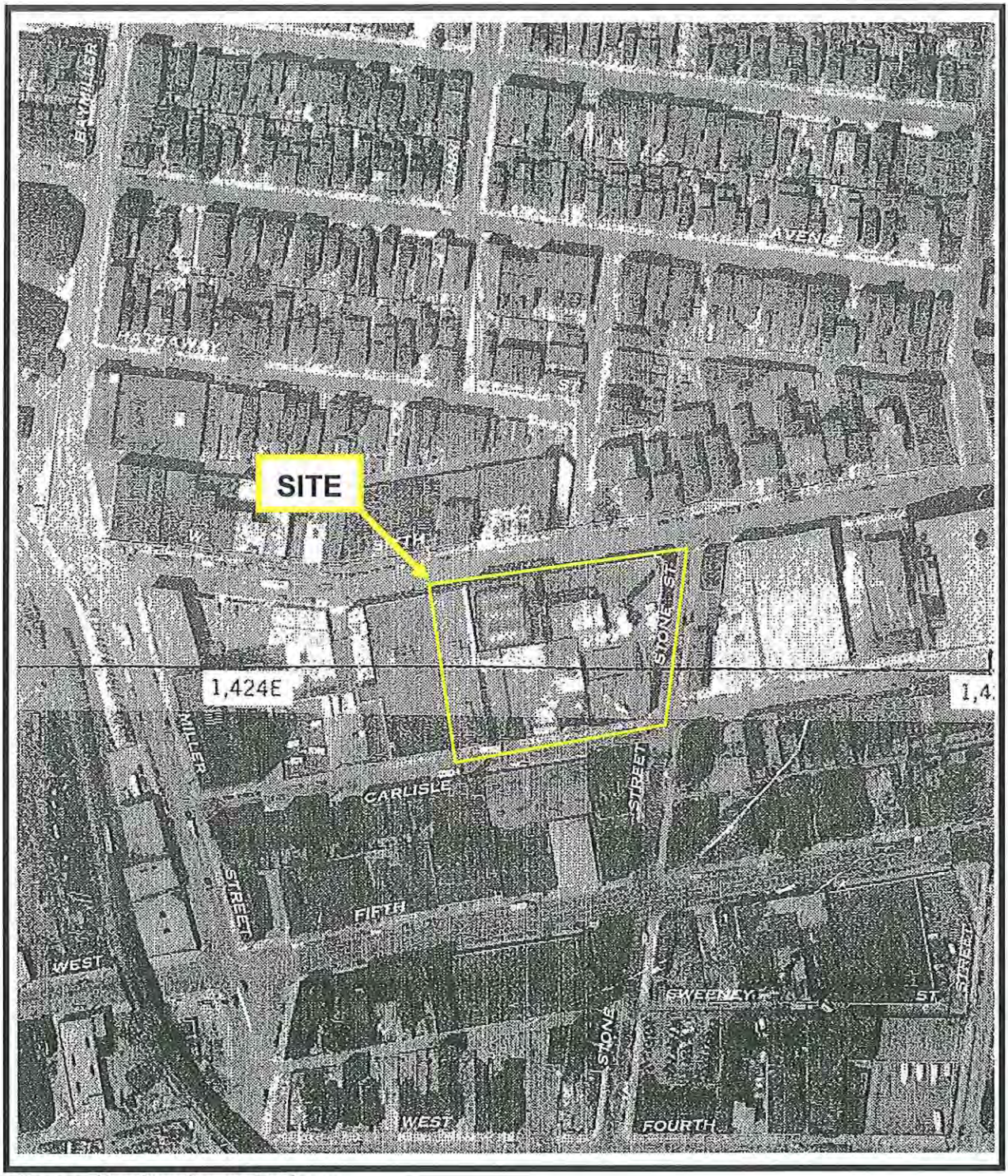
VATC

Source: Hamilton County Soil Conservation Service.

AERIAL PHOTOGRAPH - 1938
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 280 ft.			
FIGURE: App. F			

VATC

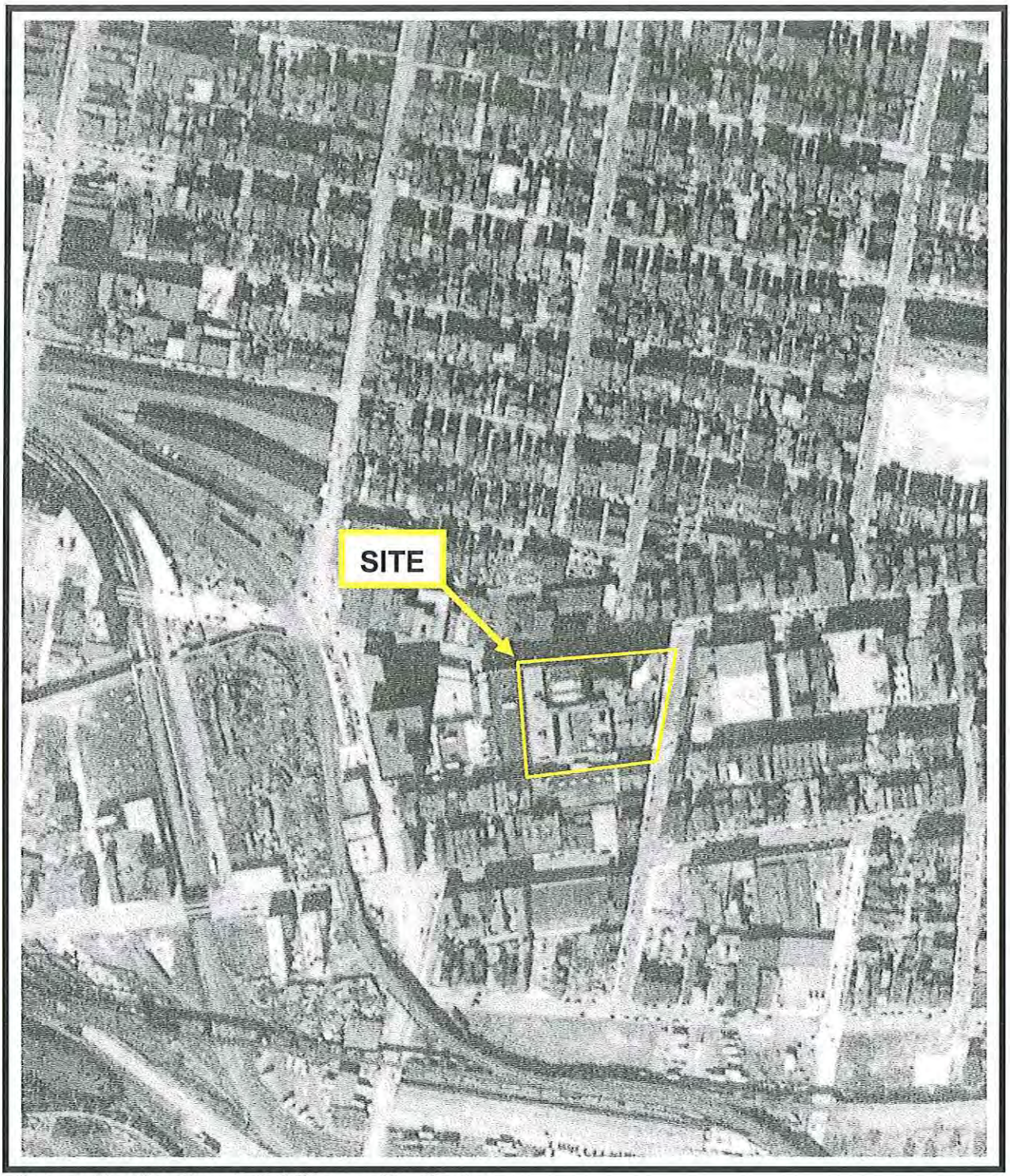


Source: Hamilton County Engineer.

AERIAL PHOTOGRAPH - 1948
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 200 ft.			
FIGURE: App. F			

VATC

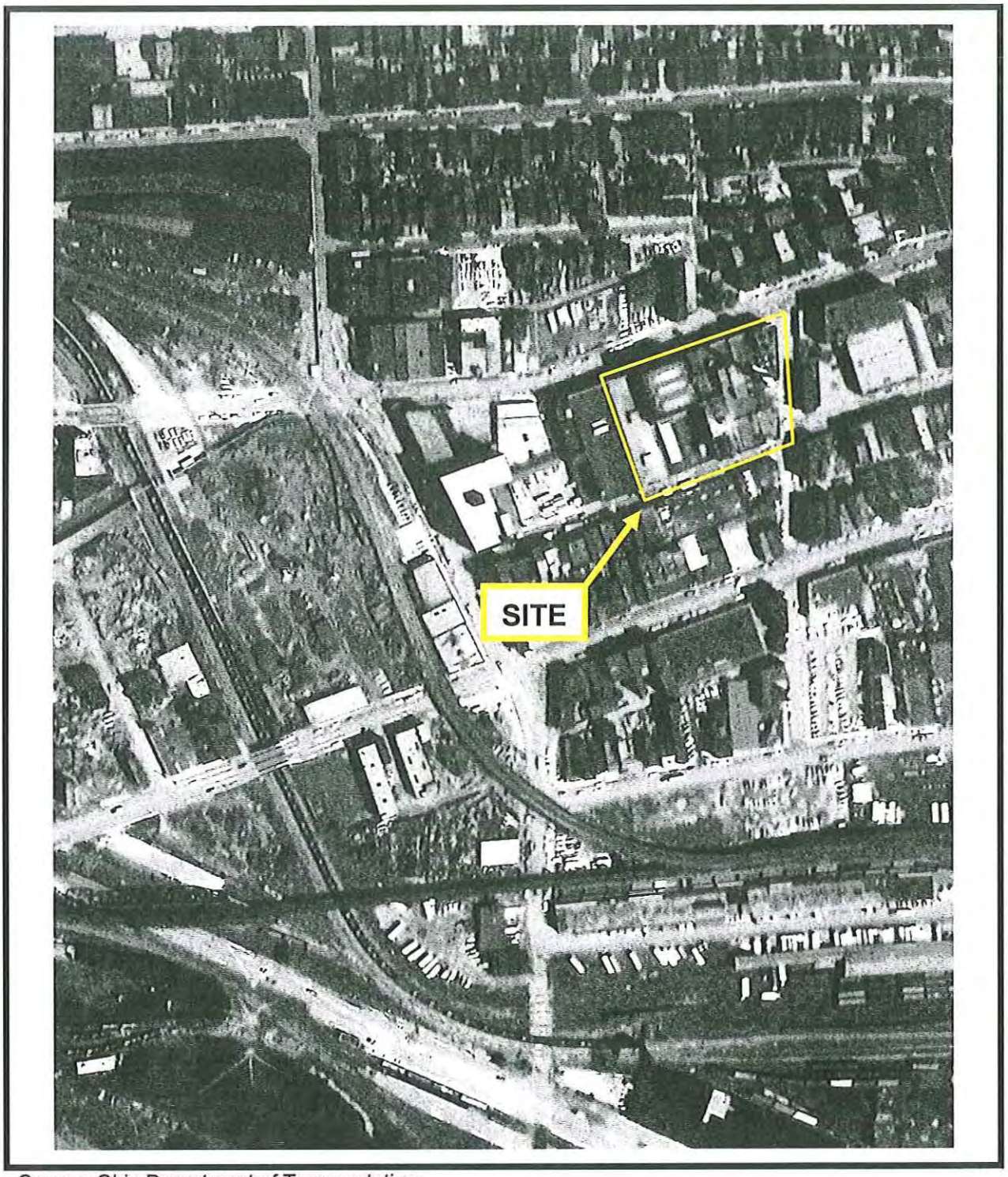


Source: Hamilton County Soil Conservation Service.

AERIAL PHOTOGRAPH - 1950
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 350 ft.			
FIGURE: App. F			

VATC



Source: Ohio Department of Transportation.

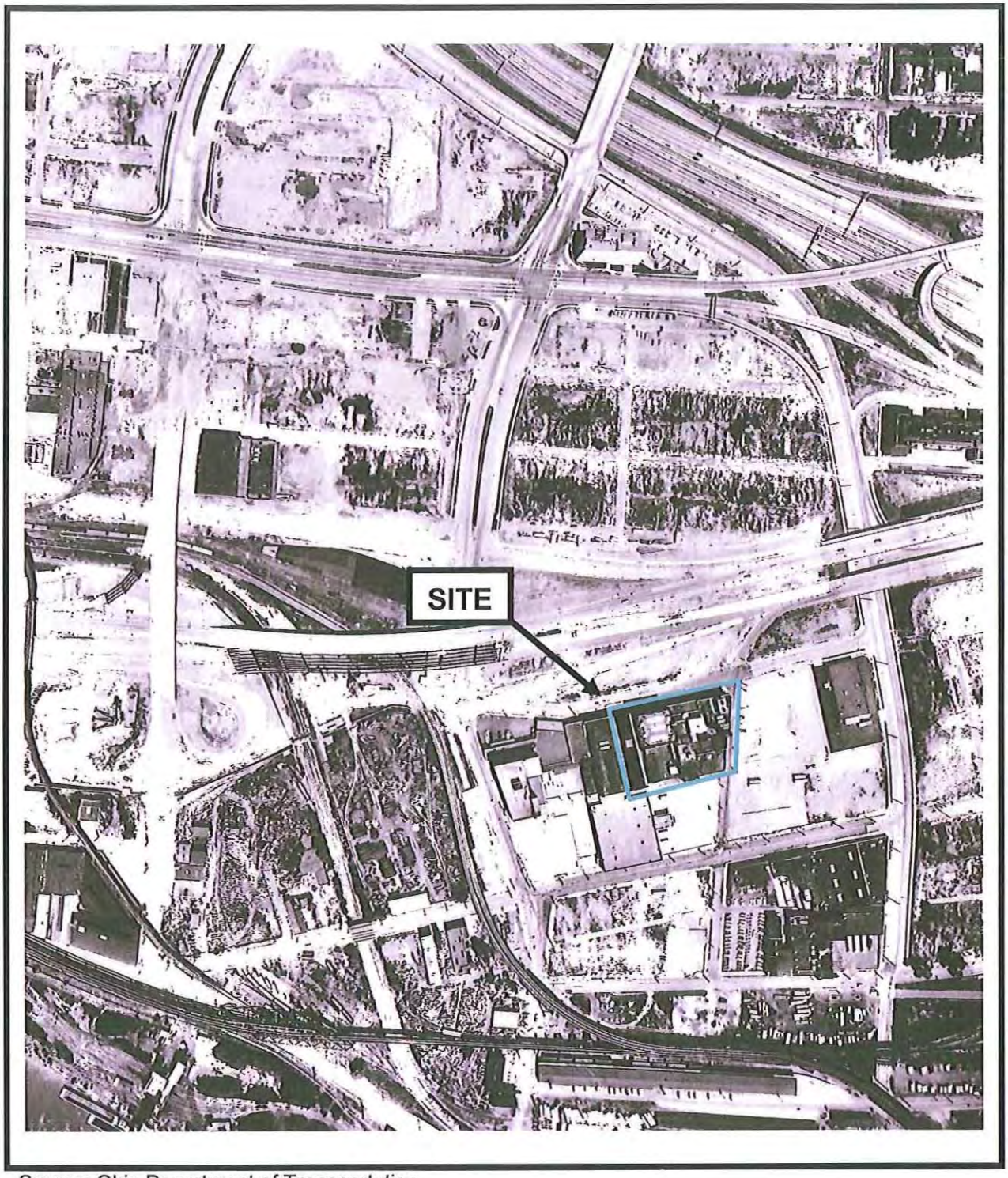
AERIAL PHOTOGRAPH - 1956
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan

SCALE: 1 in. ~ 250 ft.

FIGURE: App. F

VATC

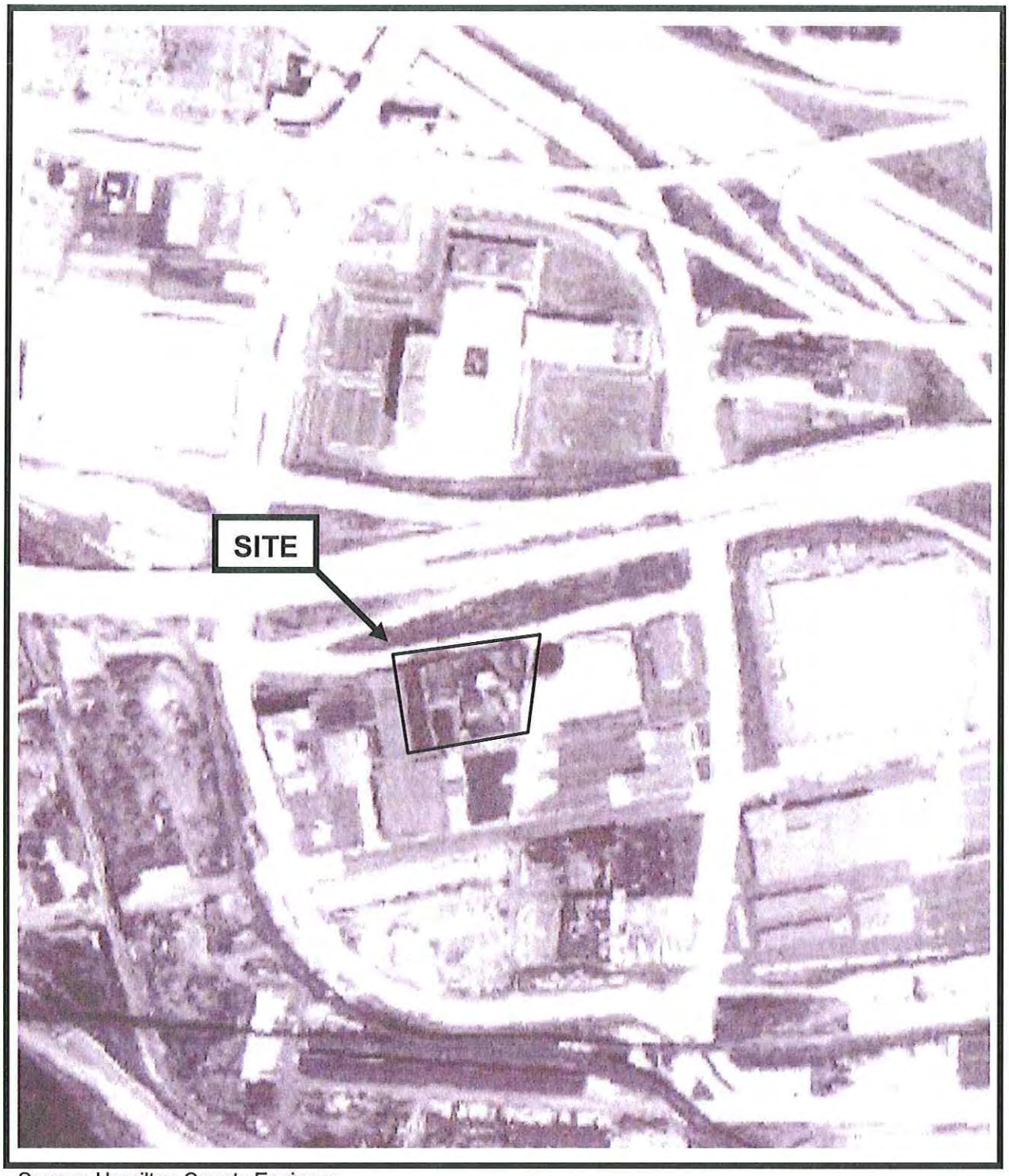


Source: Ohio Department of Transportation.

AERIAL PHOTOGRAPH - 1963
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 400 ft.			
FIGURE: App. F			

VATC



Source: Hamilton County Engineer.

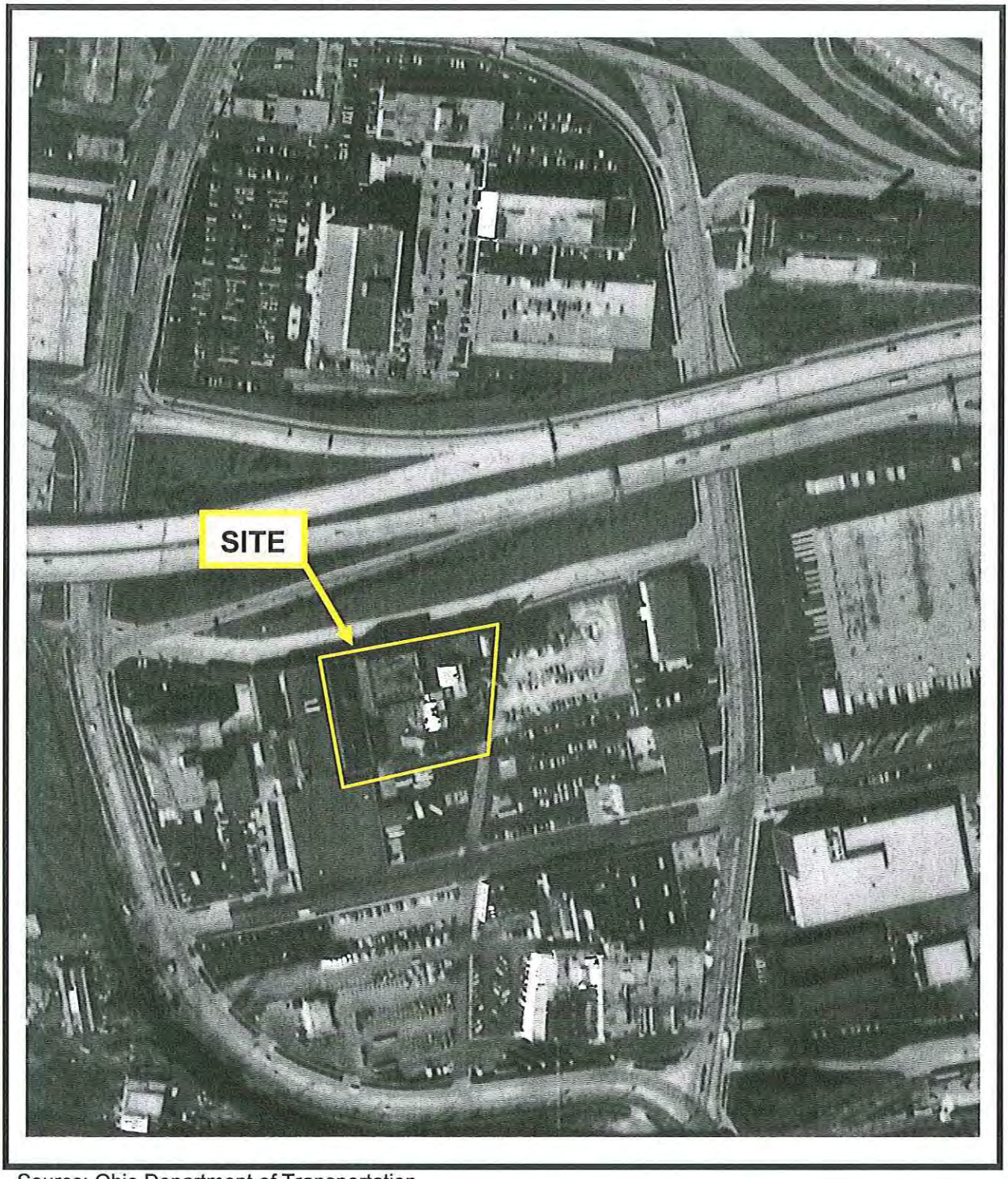
AERIAL PHOTOGRAPH - 1975
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan

SCALE: 1 in. ~ 350 ft.

FIGURE: App. F

VATC



Source: Ohio Department of Transportation.

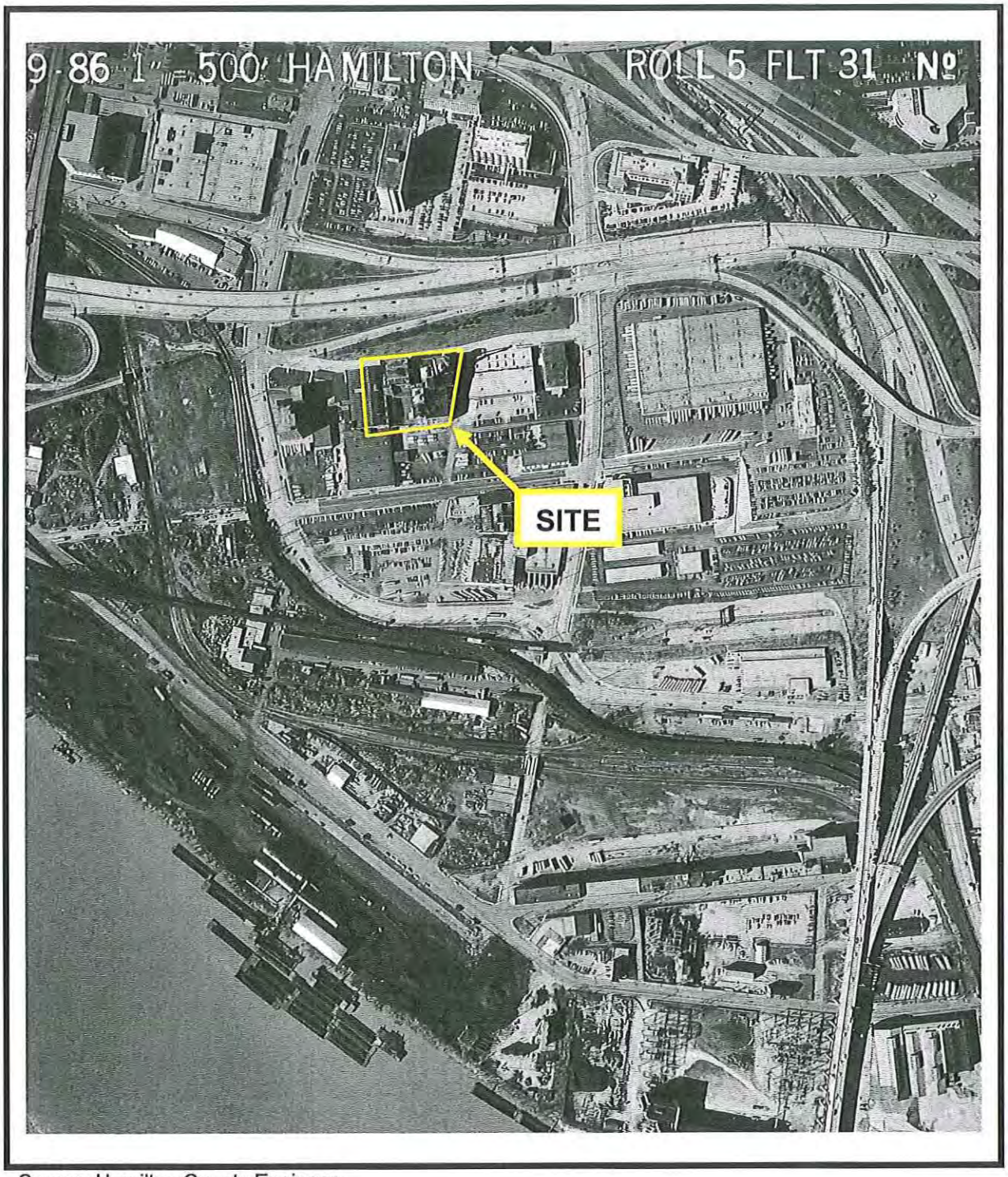
AERIAL PHOTOGRAPH - 1981
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan

SCALE: 1 in. ~ 250 ft.

FIGURE: **App. F**

VATC

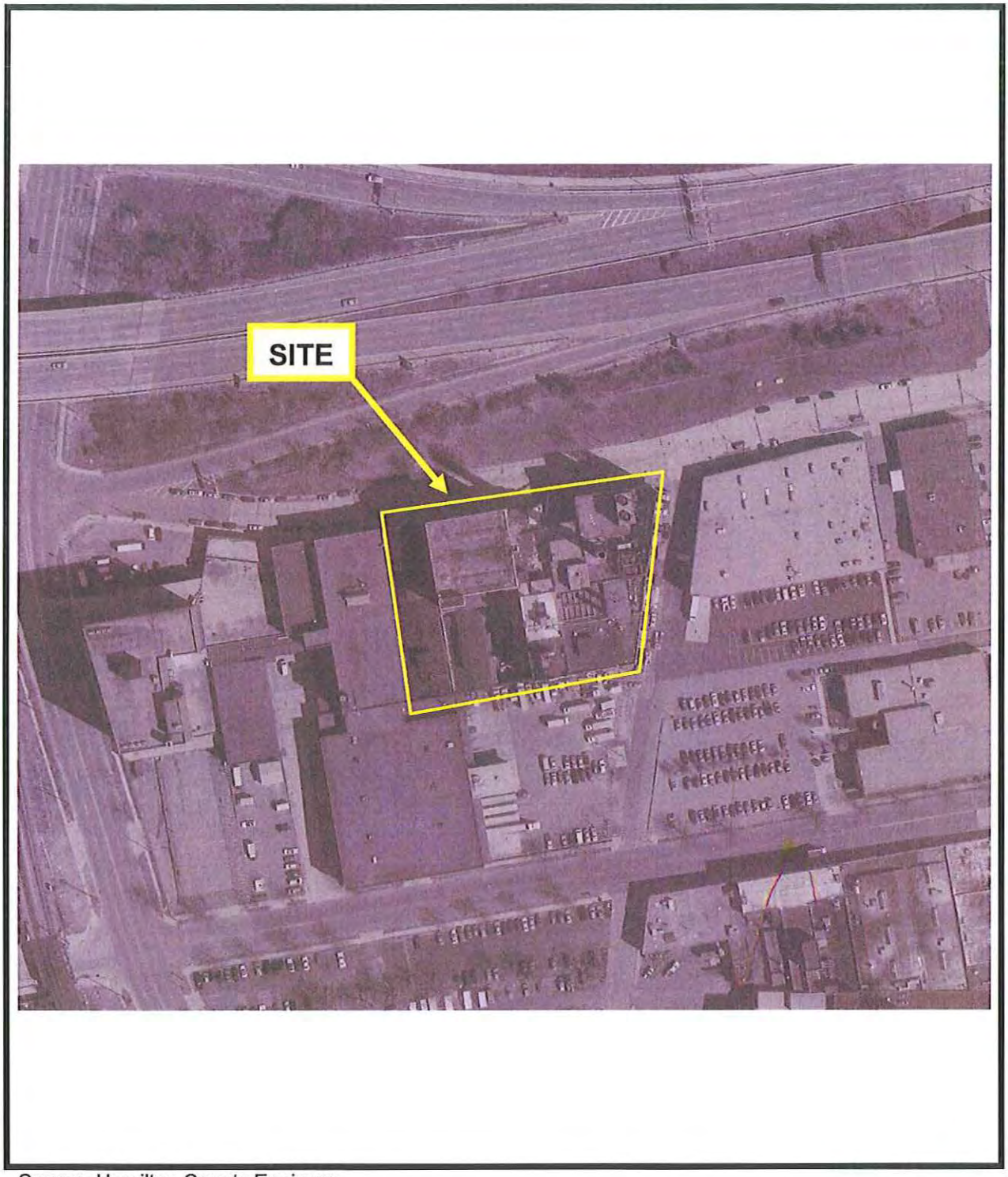


Source: Hamilton County Engineer.

AERIAL PHOTOGRAPH - 1986
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 500 ft.			
FIGURE: App. F			

VATC

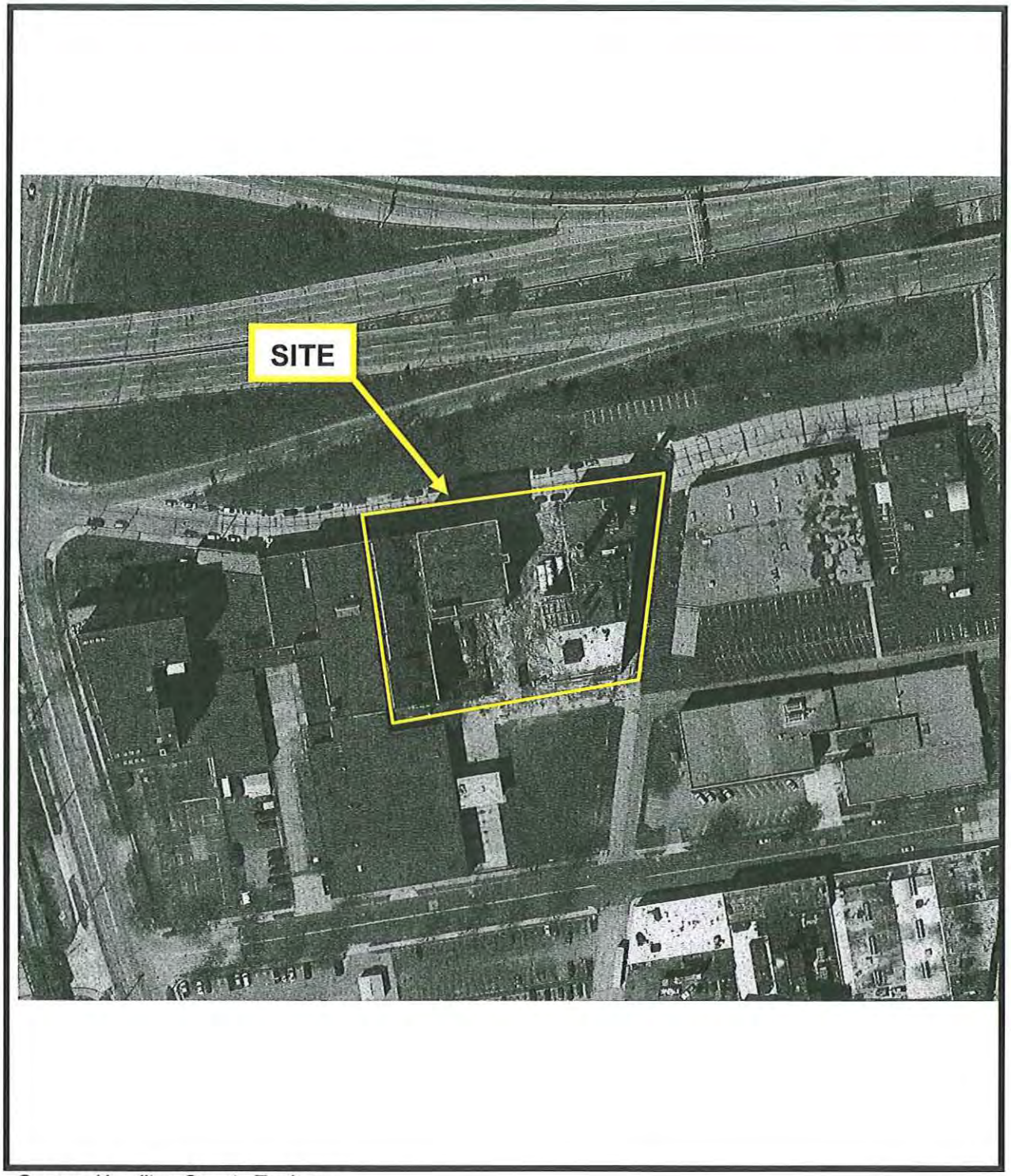


Source: Hamilton County Engineer.

AERIAL PHOTOGRAPH - 1996
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan
SCALE: 1 in. ~ 180 ft.			
FIGURE: App. F			

VATC



Source: Hamilton County Engineer.

AERIAL PHOTOGRAPH - 2006
VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.39245.0001	9-24-09	WAN	Wan

SCALE: 1 in. ~ 180 ft.

FIGURE: App. F

VATC

Appendix G

Hamilton County Auditor's and Recorder's Records

Dusty Rhodes, Hamilton County Auditor *generated on 8/21/2009 2:14:28 PM (EST)*

Property Report

Parcel ID	Address	Index Order	Card(s)
136-0004-0243-00	801 SIXTH ST	Street Address	2

Tax Dist
001 CINTI CORP-CINTI CSD-001110

School Dist
1 CINCINNATI CSD

Land Use
399 Other industrial structures

Owner Information
Call 946-4015 if Incorrect
HUDEPOHL SQUARE LLC
261 W MCMILLAM ST
CINCINNATI, OH 45219 USA

Mail Information
Call 946-4800 if Incorrect
HUDEPOHL SQUARE LLC
261 W MCMILLAN ST
CINCINNATI, OH 45219 USA

Property Information
SS SIXTH ST 1.6140 AC
LOTS 1 THRU 5 HERMAN
LECKMAN BREWING CO SUB

TIF ABATEMENT

Board of Revision	No	**Date**	10/29/2004
Rental Registration	No	**Conveyance #**	22930
Homestead	No	**Deed Number**	36162
2.5% / Stadium Credit	No	**Mkt Land Value**	116,060
Divided Property	No	**Cauv Value**	0
New Construction	No	**Mkt Impr Value**	10,400
Foreclosure	No	**Mkt Total Value**	126,460
Other Assessments	Yes	**Total TIF Value**	0
Front Ft.	352.00	**Abated Value**	0
# of Parcels	1	**Exempt Value**	0
Deed Type	17 WD-Warranty Deed	**acres**	1.611
Sale Amount	$172,000	**Taxes Paid**	$8,606.66

Note
^1) 3-19-98 DBA FOR 1998 - BLDG #6 IS TOTALLY^ GONE, BLDGS 3,4 & 5 ARE PARTIALLY GUTTED^

Improvements

Improvement	Measurements	Year Built
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	
	62124	

Commercial

Use Code 399 Other industrial structures **Year Built** 1860
Net Leaseable **Gross Area** 0.00
No. of Units

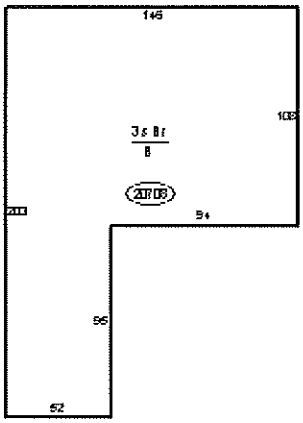
Commercial History

Section	Occupancy	Finished Square Ft.	Story Height	Stories
1	326 Storage	20,708.00	24.00	1
2	326 Storage	20,708.00	24.00	1
3	326 Storage	20,708.00	24.00	1

Transfer

Deed Book	Page	Sale Price	Sale Date	Current Owner
		$172,000	10/29/2004	HUDEPOHL SQUARE LLC
		$172,000	10/29/2004	HUDEPOHL SQUARE LLC
		$0	3/21/2003	KEENE GROUP INC THE
		$0	3/21/2003	KEENE GROUP INC THE
		$0	3/21/2003	OSBOURNE PATRICIA A
		$0	3/21/2003	OSBOURNE PATRICIA A
		$0	2/22/2002	CUSHMAN HERMAN WESLEY
		$0	2/22/2002	CUSHMAN HERMAN WESLEY
		$0	7/1/1989	OSBORNE PATRICIA A
		$0	7/1/1989	OSBORNE PATRICIA A
		$0	1/1/1987	SCHOTT MICHAEL B TR
		$0	1/1/1987	SCHOTT MICHAEL B TR
		$0	1/1/1987	HUDEPOHL BREWING CO
		$0	1/1/1987	HUDEPOHL BREWING CO

Image



CODE 01/16/87 BK PLAT PARCEL

010101 136-0004-0243-00
POHL ROBERT L ET AL

800 HUDEPOHL ST HUD
CINTI OH 45203

SS SIXTH ST 1.6140 AC
PT LOTS 1 THRU 5
HATHAWAY SUB-LAND ADJ

DATE MO.	DA	YR	TRANSFERRED TO PRESENT OWNER
1	16	87	HUDEPOHL BREWING CO (to correct transf on same date)
7	14	89	OSBORNE,PATRICIA A. ($190.00) WD

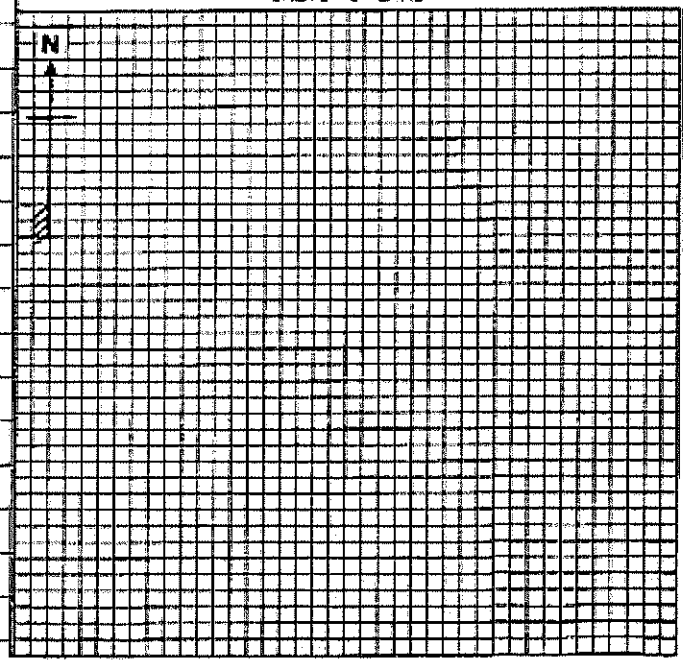
DATE MO.	DA.	YR.	CUT-UPS PARCEL	CUT-UPS FEET OR ACRES	BALANCE FEET OR ACRES	VALUATIONS LAND	VALUATIONS BUILDINGS	VALUATIONS TOTAL	CHANGES DOCMT.	CHANGES NO.
		88				51,670	75,100	126,770	TR#	516535
		90				51,670	75,100	126,770		

CUT-UP OUT OF PARCEL: Hudepohl Brewing Co T.D. 1-16-87
136-4-Pt 154 CU-1-16-87

REMARKS:

CENSUS TRACT:

SKETCH OF LAND

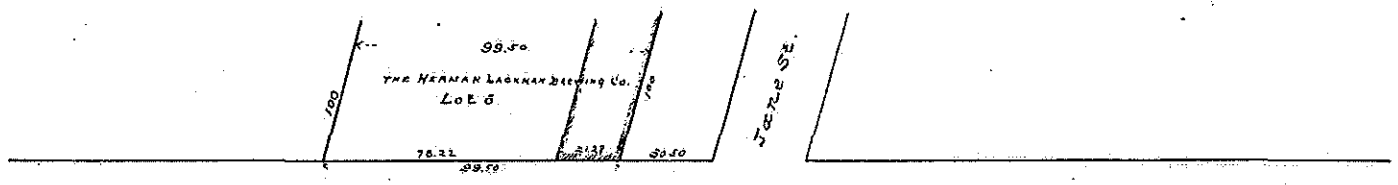


REAL ESTATE TAX LIST JOSEPH L. DeCOURCY, Jr., Auditor HAMILTON COUNTY, O. Form 1

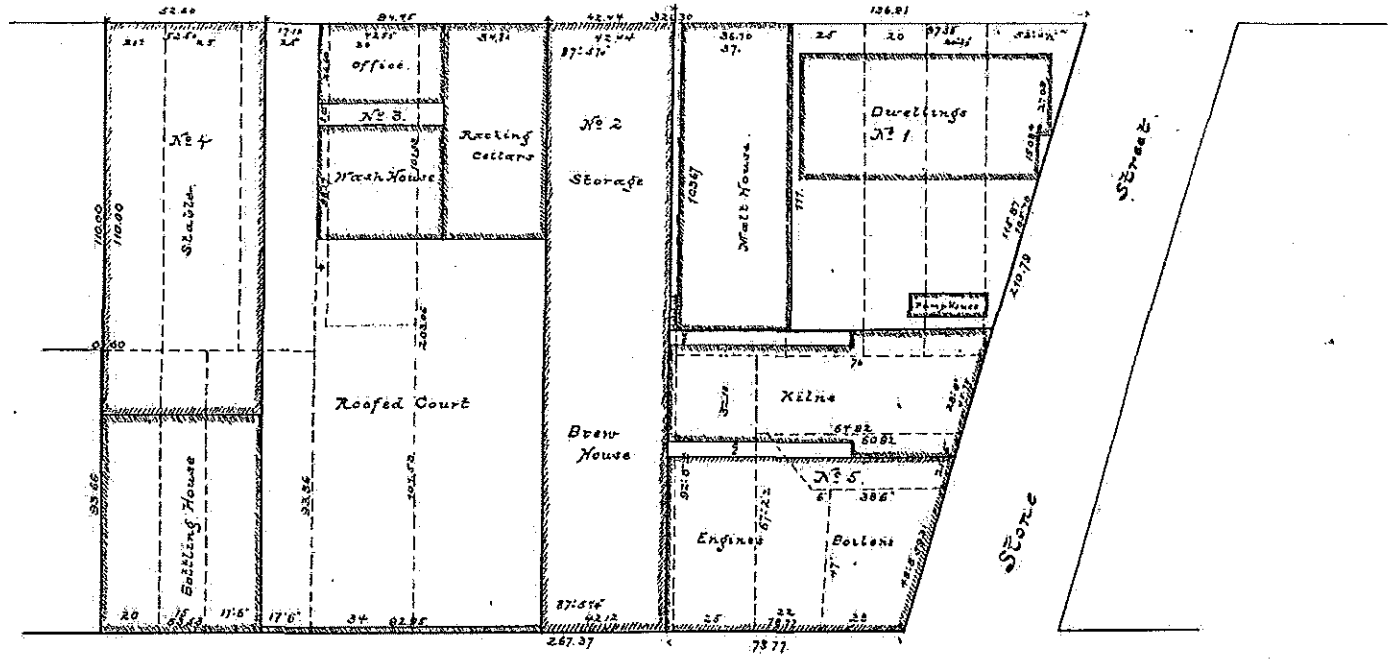
ENTIRE PROPERTY

Transferred, May 11th 1900
Eugene L. Lewis, Auditor.
per Richt Bingmann, Deputy
Received for Record, May 22nd, 1900
John Hagerty, Recorder.
by P. J. McCarthy, Deputy.

Survey for The Herman Lackman Brewing Co.



Sixth Street



Carlisle Avenue

18

Figures in black represent measured distances as per survey.
Dotted lines and figures in red represent lines and distances of Auditor's Plat.

E. W. Whittemore, Jr.
Civil Eng'r & Surveyor.
May 31st. 1900.

PLAT IN Plat BOOK 14 PAGE 78
" "_____ " ____ " _____
" "_____ " ____ " _____

DEEDS

LOTS 1 TO 6
LOTS____TO_____
BLOCK SQUARE____

HERMAN LACKMAN BREWING CO. SUB.

GRANTOR	GRANTEE	BOOK	PAGE	LOT NO.	DESCRIPTION
2-17-27 Neman, Louis I.& G.	Max & J. Steinberg	1406	509		Part lot 1 - 97.88 ft.on S.line 6th St.by 92.75 ft. on W.line Stone St. Irregular Lot.
12-19-27 Steinberg, Jacob & K.	Max Steinberg	1434	380		Und 1/2 Part Lot 1- 97.88 ft.on S.line 6th St.by 92.75 ft.on W.Line Stone St. Irregular Lot.
7-14-30 Lackman, Herman W. Est Per Admtx.	Niser Ice Cream Co.	1543	309		Lot 4 and part lot 3- 69.60 by 203.34 ft.on S.side 6th St. 256.70ft.W.of Stone St.(Irregular)
9-19-31 Steinberg, Max	Central Trust Co.	M.R. 16	229		Assignment of Rents. Part Lot 1- 97.88 ft.on S.L. 6th St.by 92.75 ft.on W.line Stone St.
7-7- 33 Niser Ice Cream Co.	Sohn Brewing Co.	1640	670		Lots 2 and 5 & part of lots 1 and 3- 158.82 by 203.34 ft.irreg.in S.line 6th St.97.88 ft.west of Stone St. Also Lot 4 and part of lot 3- 69.6 by 203.34 ft.in S.line 6th St. 256.70 ft.west of Stone St.
" "	" "				
" "	" "				
3-6-35 Sohn Brewing Co.per Trust	Hudepohl Brewing Co.	1677	280		Lots 2 and 5 and parts lots 1 and 3- 156.82 by 203.34 ft.on S.line 6th St. 97.88 ft.W.of Stone St. Also lot 4 and part lot 3- 69.6 by 203.34 ft. on S.line 6th St. 256.70ft. W.of Stone St.
" "	" "				
3-27-36 Steinberg, Max Et al pr.shff)	Central Trust Co.	1706	434		Pt lot 1, 97.88 ft. on S. line 6th St. by 92.75 ft. on West Line Stone St., Irregular lot.
6-24-36 Central Trust Co.	Jacob and Liba Noiman	1715	127		Same.
6-30-36 Noiman, Jacob and Liba	Louis Steinberg	1715	647		Same.
12-1-36 Steinberg, Louis	Hudepohl Brewing Co.	1730	600		Same.
3-12-37 Gas and Electric Appliance Co.	John M.and B.E. Collins	1739	155	6	

PLAT IN Plat BOOK 14 PAGE 78
" "_____ " ____ " _____
" "_____ " ____ " _____

MORTGAGES

LOTS 1 TO 6
LOTS ____ TO ____
BLOCK SQUARE ____

HERMAN LACKMAN BREWING CO. SUB.

MORTGAGOR	MORTGAGEE	BOOK	PAGE	LOT NO.	DESCRIPTION
4-26-27					
Steinberg, Max Et al	Pearl Mkt. Bk.& Tr.Co.	1337	425		Part Lot 1- 97.88 ft.on S.line of 6th St.by 92.75 ft.on W.line of Stone St.
8- 3-27					
Steinberg, Max Et al	Pearl Market Bk.& Tr.Co.	1390	37		Same.
11-14-28					
Steinberg, Max & T.	Pearl Market Bk.& Trust Co	1458	245		Same.
4- 9-29					
Steinberg, Max & T.	Pearl Market Bk.& Tr.Co.	1475	474		Same.
Steinberg, Max & T.	Pearl Market Bk.& T.Co.	1526	243		Same.
9-19-31					
Steinberg, Max	Central Trust Co.	M.R. 16	229		Assignment of Rents part lot 1- 97.88 ft.on S.line 6th St.by 92.75 ft.on W.line Stone St.
11-13-33					
Sohn Brewing Co.	Hauser Stander Tank Co.	49	44		Mechanics Lien Lots 2 and 5 and parts lots 1 and 3. 158.82 by 203.34 ft.irregular on S.line 6th St.
"	"				97.88 ft. W.of Stone St.Also lot 4 & pt.lot 3- 62.6
11-13-33					by 203.34ft.on S.L. 6th St.256.70 ft.W.of Stone St.
Sohn Brewing Co.	Littleford Bros.	49	43		Mechanics Lien Same.
11-13-33					
Sohn Brewing Co.	Littleford Bros.	49	40		Mechanics Lien Same.
11-13-33					
Sohn Brewing Co.	T.J. Conner Inc.	49	47		Mechanics Lien Same.
11-14-33					
Sohn Brewing Co.	L. Schreiber & Sons Co.	49	45		Mechanics Lien Same.
11-14-33					
Sohn Brewing Co.	Stoker and Boiler Eng.Co.	49	41		Mechanics Lien Same.
11-15-33					
Sohn Brewing Co.	Chas. V. Meescher & Co.	49	60		Mechanics Lien Lots 2 and 5-& pt.of lots 1 & 3. 158.82 X 203.34 ft.Irreg.on S.L.6th st. 77.88 ft.W.

Sohn Brewing Co.	Stocker and Boiler Mfg.Co.				
11-15-33					
Sohn Brewing Co.	Chas. V. Maescher & Co.	49	60	Mechanics Lien Lots 2 and 5-& pt.of lots 1 & 3.	
				158.82 X 203.34 ft.Irreg.on S.L.6th st. 77.88 ft.W.	
" "	" "			of Stone St. Also lot 4 & pt.of lot 3- 69.6 by 203.34	
11-16-33				ft.on S .L. 6th St. 256.70 ft.W.of Stone St.	
Sohn Brewing Co.	Willey-Wray Electric Co.	49	76	Mechanics Lien- Lots 2 & 5 & pt.of lots 1 & 3. 158.82	
				by 203.34 ft.irreg.on S.L. west 6th St. 97.88 ft. W.	
" "	" "			of Stone St. Also lot 4 & pt.of lot 3. 69.6 X 203.34	
11-16-33				ft.on S.line 6th St. 256.70ft. W.of Stone St.	
Sohn Brewing Co.	John Ruehl and Co.	49	51	Mechanics Lien	Same.
11-17-33					
Sohn Brewing Co.	Pfaudler Co.	49	65	Mechanics Lien	Same.
11-17-33					
Sohn Brewing Co.	Huenefeld Co.	49	82	Mechanics Lien	Same.
11-18-33					
Sohn Brewing Co.	Fred Reichelt	49	62	Mechanics Lien	Same.
11-18-33					
Sohn Brewing Co.	L. Schreiber & Sons Co.	49	63	Mechanics Lien	Same.
11-20-33					
Sohn Brewing Co.	H.W. Meier	49	69	Mechanics Lien	Same.
11-21-33					
Sohn Brewing Co.	Moores- Coney Corp.	49	72	Mechanics Lien	Same.
11-22-33					
Sohn Brewing Co.	L. Schreiber & Sons Co.	49	80	Mechanics Lien	Same.
11-23-33					
Sohn Brewing Co.	Robert Fuerst Bldg.Co.	49	78	Mechanics Lien	Same.
11-24-33					
Sohn Brewing Co.	Young and Bertke Co.	49	85	Mechanics Lien	Same.
12- 6-33					
Sohn Brewing Co.	General Machinery Co.	49	117	Mechanics Lien	Same.
12- 9-33					
Sohn Brewing Co.	Carl J. Kiefer	49	118	Mechanics Lien	Same.

OVER.

PLAT IN Plat BOOK 14 PAGE 78
" " " " " "
" " " " " "

MORTGAGES

LOTS 1 TO 6
LOTS ____ TO ____
BLOCK SQUARE ____

149-A

HERMAN LACKMAN BREWING CO. SUB. CONT'D

WAS 531 OLD BOOK.

MORTGAGOR	MORTGAGEE	BOOK	PAGE	LOT NO.	DESCRIPTION
12-14-1933		Lien			
Sohn Brewing Co.	Brighton Copper Works	49	132		Mechanics Lien- Lots 2 and 5 and part of lots 1 and 3- 158.82 by 203.34 ft. Irregular on S.line 6th St. 97.88 ft.west of Stone St. Also lot 4 and part of lot 3. 69.6 by 203.34 ft.on S.line 6th St. 256.70 ft. west of Stone St.
" "	" "				
" "	" "				
8-8-55		Release			
Sohn Brewing Co.	General Machinery Co.	81	137		Satisfaction of Mechanics Lien- Lots 2 and 5 and part of lots 1 and 3-- 158.82 by 203.34 ft.in South line 6th St.97.88 ft.west of Stone St.(Irregular) Also Part lot 3 and all of lot 4- 69.6 by 203.34 ft. in S.line 6th St. 256.90 ft.west of Stone St.(Irreg. in Lien Book 49, Page 117.
" "	" "				
" "	" "				
6-24-36					
Noiman, Jacob and Liba	Central Trust Co.	1674	507		Part lot 1- 97.88 ft.on S.line 6th St.by 92.75 ft.on west line Stone St. (Irregular).

Bk 3437 p951

5 : 144
79 : 148
78 : 468-B

Gen. Ind. 8th Ser. Bk. ___ P ___ SEP-18-65 44021 —Ddc— 6.90

EMERGENCY

City of Cincinnati

HPS

An Ordinance No. 300 1965. 60 WC

To vacate Stone Street from the south side of West Sixth Street to the north side of West Fifth Street.

WHEREAS, the City of Cincinnati and Hudepohl Brewing Company are the owners of all the land abutting and bounding Stone Street from the south side of West Sixth Street to the north side of West Fifth Street, to be vacated in accordance with plat entitled "Vacation Plat for Super Block No. 12, Queensgate 1, Stone St., May, 1965"; and,

WHEREAS, said plat and legal description have been prepared by the city engineer and have been found to be correct; and,

WHEREAS, the city planning commission, at its meeting on July 2, 1965, approved the vacation as consented to; and,

WHEREAS, council, upon hearing, is satisfied that there is good cause for such vacation as consented to; that it will not be detrimental to the general interest and ought to be done; now, therefore,

BE IT ORDAINED by the council of the City of Cincinnati, State of Ohio:

Section 1. That Stone Street from the south side of West Sixth Street to the north side of West Fifth Street, as depicted on a plat entitled "Vacation Plat for Super Block No. 12, Queensgate 1, Stone St., May, 1965", a print of which is attached hereto and made a part hereof, and more particularly described as follows:

> Situate in Section 24, Town 4, Fractional Range 1, Cincinnati Township, City of Cincinnati, Hamilton County, Ohio, and being all of Stone Street lying between the north line of Fifth Street (a 66 foot street) and the south line of Sixth Street (a 60 foot street).

is hereby vacated, subject, however, to the following terms and conditions which shall be as a covenant running with the land and be binding on the petitioners and all persons claiming by, from, through, or under said petitioners:

a) The existing 15-inch sewer in said Stone Street to Carlisle Avenue shall become the private sewer of said petitioner, Hudepohl Brewing Company. The existing manhole in Sixth Street shall be remodeled so as to prevent the flow in said Sixth Street sewer from entering said Stone Street sewer.

b) The existing 12-inch sewer in said Stone Street from vacated Barrell Alley to Fifth Street, including two (2) existing inlets in Stone Street at the north line of Fifth Street shall become the private sewer of said Hudepohl Brewing Company if it is needed by said company. If it is not needed it shall be sealed by the Department of Urban Development at its sole expense and abandoned.

c) The presently existing 4-inch water main in said Stone Street shall be abandoned when the Hudepohl Brewing Company has obtained its service from another main, which shall be done within a reasonable time.

d) The easement in favor of the Cincinnati and Suburban Bell Telephone Company for its existing underground and aerial telephone facilities in said Stone Street shall be abandoned and removed when all services in said facilities are discontinued, which shall be done within a reasonable time.

e) The Cincinnati Gas and Electric Company shall remove street light No. 573x-41 on the vacation of said Stone Street.

Section 2. That the city solicitor shall cause an authenticated copy of this ordinance to be duly recorded on the land records of Hamilton County, Ohio.

Section 3. That this ordinance is hereby declared to be an emergency measure, necessary for the immediate preservation of the public peace, health and safety, and it shall go into effect forthwith. The reason for said emergency is to permit the development of said Queensgate 1 property as soon as possible.

Passed: JUL 8 1965 A. D., 1965.

WALTON H. BACHRACH
Mayor

TRANSFERRED

Attest: DALE SCHMIDT
Clerk

65 SEP 17 PM 2:44

FRED J. KOHR
COUNTY AUDITOR

Parcel "C"
5=144

589867

HAMILTON COUNTY RECORDERS OFFICE
FRONT DESK
DOC # 89-86471 TYPE DEED
FILED: 07/14/89 @ 11:10:34AM $ 80.00
OFF REC: 5048 0449 F 172

GENERAL WARRANTY DEED

THE HUDEPOHL BREWING COMPANY, an Ohio corporation, hereinafter "Grantor", for One ($1.00) Dollar and other good and valuable consideration paid, hereby grants to PATRICIA A. OSBORNE, an individual, hereinafter "Grantee", whose tax mailing address is 389 West Maddox Road, Alexandria, Kentucky 41001, the following Real Property located in the County of Hamilton, State of Ohio, and hereinafter referred to as "Parcel B":

Situated in Section 24, Town 4, Fractional Range 1, Cincinnati Township, City of Cincinnati, Hamilton County, Ohio and being more particularly described as follows:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

thence continuing with said north line, South 81°00'00" West for 19.97 feet;

thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the land herein described;

thence South 81°02'05" West for 233.93 feet;

thence North 8°57'55" West for 20.80 feet to the southeast corner of an existing brick building;

thence with the south outside edge of said building, South 80°38'48" West for 53.45 feet to the southwest corner of said building;

thence with the west side of said building, North 8°34'38" West for 203.23 feet to the south line of Sixth Street;

thence with south line, North 81°10'30" East for 352.14 feet;

thence leaving said south line, South 7°34'05" West for 233.41 feet to the PLACE OF BEGINNING, and

Examined & Complained with Sec. 322.02 R.C.
Real Property Transfer Tax
285.00
JOSEPH L. DE COURCY, JR., AUDITOR
HAMILTON COUNTY, OHIO

Examined & Complained with Sec. 319.202 R.C.
50
JOS. L. DE COURCY, JR., AUDITOR
HAMILTON COUNTY, OHIO
TAX 190.00

89069314

5048 PAGE 449

containing 1.6140 acres, (70,306 square feet) more or less, subject however to all covenants, conditions, restrictions, reservations and easements contained in any instrument of record to the above described tract of land; and

Subject however to the following described easement for the purposes of ingress/egress and utilities:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

thence continuing with said north line, South 81°00'10" West for 19.97 feet;

thence leaving said north line, North 7° 34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the easement herein described:

thence South 81°02'05" West for 233.93 feet;

thence North 8°57'55" West for 12.50 feet;

thence North 81°02'05" East for 222.00 feet;

thence North 7°34'05" East for 219.41 feet to the south line of Sixth Street;

thence with said south line, North 81° 10'30" East for 15.64 feet;

thence leaving said south line, South 7° 34'05" West for 232.41 feet to the PLACE OF BEGINNING and containing 0.1432 acres (6,238 square feet) more or less.

Prior Deed References for Parcel B: Deed Book 1730, Page 600; Deed Book 1677, Page 280; Deed Book 3437, Page 951; Deed Book 3359, Page 629, Hamilton County, Ohio Real Estate Records.

Grant of Easements

Grantor also hereby grants and delegates to Grantee all of Grantor's rights and obligations relating to the easements granted and reserved with respect to Parcel "B" in Grantor's Deed to Parcel

5 — 144 .61 55

HAMILTON COUNTY RECORDERS OFFICE
FRONT DESK
DOC # 89-86472 TYPE LEASE
FILED: 07/14/89 @ 11:11:36AM $ 24.00
OFF REC: 5048 0486 F 173

LEASE AGREEMENT

This Lease Agreement (hereinafter "Lease Agreement") is entered into on this 11th day of July, 1989, by and between THE HUDEPOHL BREWING COMPANY, an Ohio corporation, (hereinafter "Lessee"), and PATRICIA A. OSBORNE (hereinafter "Lessor").

WHEREAS, Lessee has sold and Lessor has purchased certain real estate, together with all improvements, buildings and fixtures thereon, located in Cincinnati, Hamilton County, Ohio (hereinafter "Parcel B"), which Parcel B is outlined on the Plat of Survey attached hereto as Exhibit "1" and is more particularly described in the attached Exhibit "2".

WHEREAS, as additional consideration for the sale and purchase of Parcel B, Lessor agreed, in the Purchase Agreement dated May 17, 1989 ("Purchase Agreement"), to lease to Lessee the exterior walls and roof of the buildings on Parcel B in order to place and maintain signage and advertising;

NOW THEREFORE, as a part of the additional consideration described in the Purchase Agreement, in consideration of the mutual promises contained herein, and for other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, Lessee and Lessor covenant and agree as follows:

(1) Leased Premise

Lessor hereby leases to Lessee and Lessee hereby hires from Lessor, the exterior walls and roof of the buildings ("Buildings") located on Parcel B (collectively the "Leased Premises") for a period of 20 years, beginning September 1, 1989, for the purpose of placing and maintaining signage and other

advertising. The only exception to Lessee's exclusive right to the use of the exterior walls and roof of the Buildings shall be Lessor's right to place one sign on a part of the exterior wall of the Buildings, which sign shall not obstruct Lessee's signs or advertisements and shall contain only Lessor's name or Lessor's business name and any logo or advertisement relating to Lessor's business. In consideration for use of the Leased Premise, but only if Hudepohl actually places new signage or advertising on the Buildings and only during the period that Lessee maintains such signage or advertising on the Buildings, Lessee shall pay $100 per month to Lessor for the first 10 years of use beginning on the first day of the first full month following placement of signage or advertisement, and $200 per month for each month thereafter, unless terminated as provided in Paragraph (2) hereof. For this rental amount, Lessee may place or erect as many signs or advertisements as Lessee chooses.

(2) Termination

(a) This Lease Agreement shall terminate no later than midnight on August 31, 2009 (herein "Date of Termination").

(b) This Lease Agreement shall terminate prior to the Date of Termination if and when the Lessor demolishes substantially all of the Buildings located on Parcel B. This Lease Agreement may terminate early, at Lessee's option, if Lessor demolishes any portion or part of the Buildings. Lessor shall give Lessee 60 days prior written notice of any plans to demolish the Buildings, or any part thereof, and Lessee shall then have the right, but not the obligation, to remove its

signage or advertising and, if only a partial demolition, give notice of early termination of this Lease Agreement.

(c) Upon termination, title to any signage or advertising not removed and remaining on the Buildings shall transfer to Lessor.

(3) Right of Access

Lessor agrees that Lessee, and its employees, agents, contractors, lessees, successors and assigns, shall have the right, during reasonable hours, to enter onto Parcel B and into the Buildings in order to access the Leased Premises to erect, place and maintain the signage and advertising on the exterior walls and roof of the Buildings. Lessee shall have the right to use any reasonable means to affix and attach the signage and advertising to the Buildings. Lessor shall provide the necessary electricity for any lighting required on, within, or as a part of the signage and advertising, and the cost of the electricity shall be reimbursed by Lessee on a monthly basis upon submission of an itemized bill from Lessor to Lessee.

(4) Cost of Use of Leased Premise

Lessee shall bear the cost of erecting and maintaining the advertisements and signage.

(5) Building Maintenance

Lessor shall maintain, at Lessor's sole expense, the exterior walls and roof of the Buildings in such a manner that Lessee's signage and advertisements are not injured, damaged or diminished in any manner.

(6) Forum Selection

Any action brought by either party to obtain any legal or equitable remedy with respect to this Lease Agreement, or to construe the provisions hereof, shall be brought and pursued in a court of competent jurisdiction located in Hamilton County, Ohio, and for this purpose each party hereby expressly and irrevocably consents to the jurisdiction of said courts.

(7) Assignment

Neither party may assign, delegate or otherwise transfer any of the rights or obligations under this Lease Agreement without the prior written consent of the other party.

(8) Notices

All notices and communications hereunder shall be in writing and shall be personally delivered or mailed by United States certified or registered mail, return receipt requested, postage prepaid, addressed as follows:

(a) If to Lessee: The Hudepohl Brewing Company
1625 Central Parkway
Cincinnati, Ohio 45214

(b) If to Lessor: Patricia A. Osborne
389 West Maddox Road
Alexandria, Kentucky 41001

(c) In such other matter as either party thereto may designate in a written notice to the other in the manner aforesaid.

(9) Miscellaneous

Time is of the essence of this Lease Agreement. This Lease Agreement may not be modified, supplemented or amended in

any respect whatsoever except by an instrument in writing executed by the party charged to be bound thereby. This Lease Agreement shall be construed and enforced in accordance with the laws of the State of Ohio. This Lease Agreement and the Exhibits attached hereto constitute the entire agreement between the parties relating to the subject matter hereof and shall supersede and take the place of any other instrument purporting to be an agreement of the parties relating to the transactions contemplated hereby. The section headings of this Lease Agreement are for purposes of reference only and shall not limit or define the meaning hereof. This Lease Agreement may be executed in any number of counterparts, each of which shall be an original, but all of which shall constitute one and the same instrument. This Lease Agreement shall be binding on the assignees or successors of the parties hereto, subject to Paragraph (7) hereof.

IN WITNESS WHEREOF, the parties hereto have executed this Lease Agreement as of the date first above written, in Cincinnati, Ohio.

LESSEE:

Signed in the presence of:

THE HUDEPOHL BREWING COMPANY

By _____
Kenneth C. Lichtendahl,
President

STATE OF OHIO)
) ss:
COUNTY OF HAMILTON)

BE IT REMEMBERED, that on this 10th day of July, 1989, before me, the subscriber, a Notary Public in and for said County and State, personally appeared Kenneth C. Licthendahl, President of THE HUDEPOHL BREWING COMPANY, whose name is subscribed to and which executed the foregoing instrument, and for himself and as such officer, respectively, and for and on behalf of said corporation, he acknowledged the signing and execution of said instrument; and that he otherwise executed said instrument, by authority of the Corporation's Board of Directors, and on behalf of said corporation; and that the signing and execution of said instrument is his free and voluntary act and deed, his free and voluntary act and deed as an officer of said corporation, and the free and voluntary act and deed of said corporation, for the uses and purposes in said instrument mentioned.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my Notarial seal, on the day and year last aforesaid.

Karla J. Romer
NOTARY PUBLIC

KARLA J. ROMER
Notary Public, State of Ohio
My Commission Expires June 28, 1991

Signed in the Presence of:

Stephen J. Strauss

James M. Jerley

LESSOR:

Patricia A. Osborne
PATRICIA A. OSBORNE

STATE OF OHIO)
) ss:
COUNTY OF HAMILTON)

BE IT REMEMBERED, that on this 11th day of July, 1989, before me, the subscriber, a Notary Public in and for said County and State, personally appeared Patricia A. Osborne, whose name is subscribed to and which executed the foregoing instrument, and for herself and acknowledged the signing and execution of said instrument; and acknowledged that the signing and execution of said instrument is her free and voluntary act and deed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my Notarial seal, on the day and year last aforesaid.

NOTARY PUBLIC

This instrument was prepared by James M. Jorling, Esq., Kohnen, Patton & Hunt, 1400 Carew Tower, 441 Vine Street, Cincinnati, Ohio 45202.

03-13-10

EXHIBIT 1

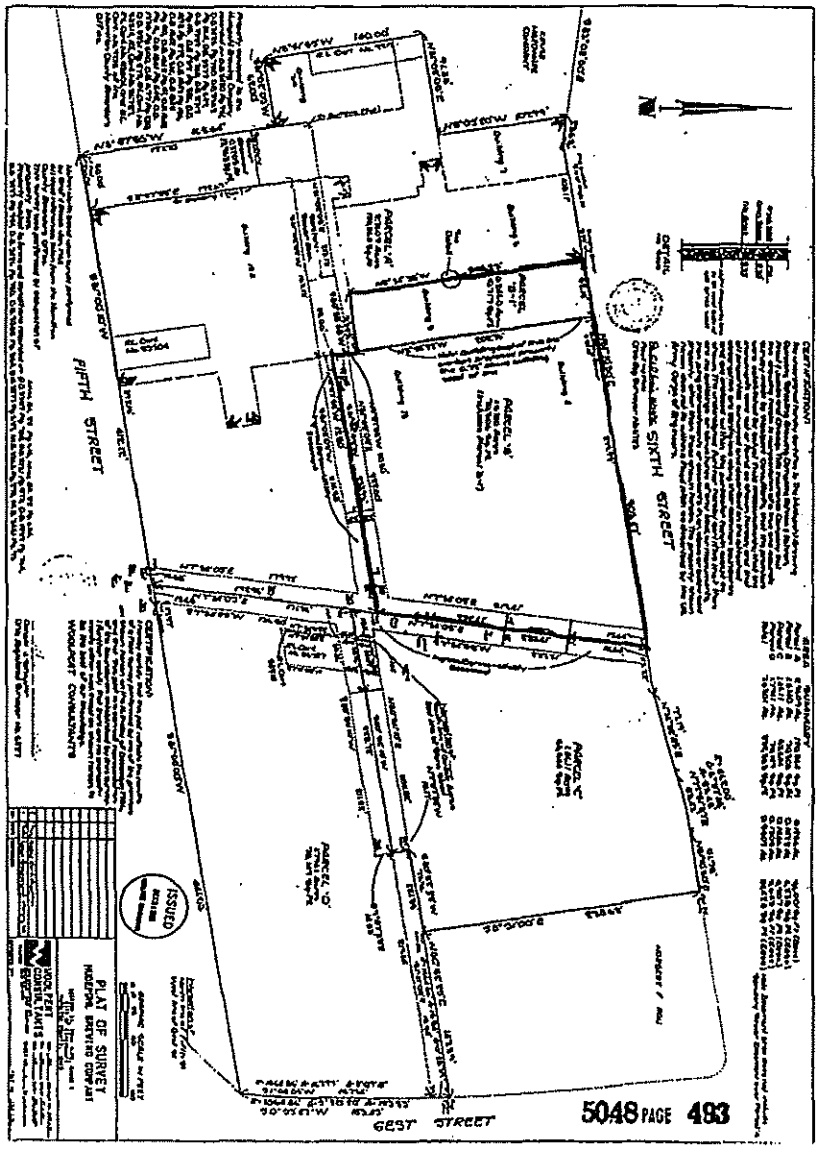

FIFTH STREET
SIXTH STREET
GEST STREET
PLAT OF SURVEY
ISSUED

EXHIBIT 2

Parcel "B"

Situated in Section 24, Town 4, Fractional Range 1, Cincinnati Township, City of Cincinnati, Hamilton County, Ohio and being more particularly described as follows:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

thence continuing with said north line, South 81°00'10" West for 19.97 feet;

thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the land herein described;

thence South 81°02'05" West for 233.93 feet;

thence North 8°57'55" West for 20.80 feet to the southeast corner of an existing brick building;

thence with the south outside edge of said building, South 80°38'48" West for 53.45 feet to the southwest corner of said building;

thence with the west side of said building, North 8°34'38" West for 203.23 feet to the south line of Fifth Street;

thence with said south line, North 81°10'30" East for 352.14 feet;

thence leaving said south line, south 7°34'05" West for 232.41 feet to the PLACE OF BEGINNING,and containing 1.6140 acres, (70,306 square feet) more or less, subject however to all convenants, conditions, resrictions, reservations and easements contained in any instrument of record to the above described tract of land.

Prior Deed References for Parcel "B": Deed Book 1730, Page 600; Deed Book 1677, Page 280; Deed Book 3437, Page 951; Deed Book 3359, Page 629, Hamilton County, Ohio Recorder.

RECEIVED & TRANSFERRED
2002 FEB 22 AM 10:01
DUSTY RHODES
HAMILTON COUNTY AUDITOR

02-0961780

QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS:

That PATRICIA A. OSBORNE, a single woman, for and in consideration of One ($1) Dollar and other Valuable Consideration, does hereby release her interest, remise, and forever quitclaim, unto

HERMAN WESLEY CUSHMAN, a single man, his heirs and assigns forever, the following described Real Estate, located in the County of Cincinnati and State of Ohio, to wit:

Street Address: 801 W 6th STREET, CINCINNATI, OHIO

Tax Mailing Address: 441 Commonwealth Avenue, Erlanger, Kentucky 41018

136-A-243

Situated in Section 24, Town 4, Fractional Range 1, Cincinnati Township, City of Cincinnati, Hamilton County, Ohio and being more particularly described as follows:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

thence continuing with said north line, South 81°00'00" West for 19.97 feet;

thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the land herein described;

thence South 81°02'05" West for 233.93 feet;

thence North 8°57'55" West for 20.80 feet to the southeast corner of an existing brick building;

thence with the south outside edge of said building, South 80°38'48" West for 53.45 feet to the southwest corner of said building;

thence with the west side of said building, North 8°34'38" West for 203.23 feet to the south line of Sixth Street;

thence with south line, North 81°10'30" East for 252.14 feet;

thence leaving said south line, South 7°34'05" West for 232.41 feet to the PLACE OF BEGINNING, and

136-4-243

Doc #: 2 - 36177 Type: DE
Filed:02/22/2002 10:11:35 AM $ 218.00
Off.Rec.: 8836 2601 F X6 53 422
REBECCA PREP-GROFF
HAMILTON COUNTY RECORDER

Examined & Compliance with Sec. 319.202 R.C.
is exempt from fee under Sec. Sec. 319.54 (F) 3

DUSTY RHODES
HAMILTON COUNTY, OHIO

050

DESCRIPTION ACCEPTABLE
HAMILTON COUNTY ENGINEER

Tax Map -

CAGIS -

8836 2601

containing 1.6140 acres, (70,306 square feet) more or less, subject however to all covenants, conditions, restrictions, reservations and easements contained in any instrument of record to the above described tract of land; and

Subject however to the following described easement for the purposes of ingress/egress and utilities:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

thence continuing with said north line, South 81°00'10" West for 19.97 feet;

thence leaving said north line, North 7° 34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the easement herein described:

thence South 81°02'05" West for 233.93 feet;

thence North 8°57'55" West for 12.50 feet;

thence North 81°02'05" East for 222.00 feet;

thence North 7°34'05" East for 219.41 feet to the south line of Sixth Street;

thence with said south line, North 81° 10'30" East for 15.64 feet;

thence leaving said south line, South 7° 34'05" West for 232.41 feet to the PLACE OF BEGINNING and containing 0.1432 acres (6,238 square feet) more or less.

Prior Deed References for Parcel B: Deed Book 1730, Page 600; Deed Book 1677, Page 280; Deed Book 3437, Page 951; Deed Book 3359, Page 629, Hamilton County, Ohio Real Estate Records.

Grant of Easements

Grantor also hereby grants and delegates to Grantee all of Grantor's rights and obligations relating to the easements granted and reserved with respect to Parcel "B" in Grantor's Deed to Parcel

RECEIVED & TRANSFERRED

03-0998230 2003 MAR 21 PM 2:04

JOSEPH T. DEERS
HAMILTON COUNTY AUDITOR

SHERIFF'S DEED

Whereas, on the **8th** day of **November,** A.D. **2001,** Robert A. Goering, Treasurer of Hamilton County, Ohio, as party plaintiff, filed his certain petition in the Court of Common Pleas of Hamilton County, Ohio, against **Patricia S. Osborne, John Doe, Unknown Spouse of Patricia A. Osborne, Hudepohl Brewing Company and City of Cincinnati** as parties defendants, and numbered on the docket of said Court as Case No. **A0107848** praying therein for the Foreclosure of Tax Liens, sale of real estate and all proper relief.

AND WHEREAS, afterwards, to-wit: on the **16th** day of **August** A.D. **2002,** in the **July** Term A. D. **2002** of said Court, an order was made in said cause, finding, among other things, that the first cause of action as set forth in the petition of the plaintiff came on to he heard on the pleadings and the evidence; that all the defendants therein have been legally served with process, and have been duly notified of the pendency and prayer of the petition as prescribed by law, and that the equities of the case are with the plaintiff, and that there is due the plaintiff the following sums as taxes and assessments against the property described in the first cause of action of said petition, and described in the decree of sale as follows, to-wit:

Rebecca Prem Groppe
Hamilton County Recorders Office
Doc #: 03-0348911 Type: DE
Filed: 04/11/03 10:45:54 AM $18.00
Off.Rec.: 09232 04251 F S59 3 468

TAXES: $38,607.92

TAX DUPLICATE DESCRIPTION:

Examined & Co...pliance with Sec. 319.202 R.C. Conveyance is exempt from fee under Sec. Sec. 319.54 (F) 3.

DUSTY RHODES
HAMILTON COUNTY, OHIO

50¢

136-4-243
SS SIXTH ST 1.6140 AC
LOTS 1 THRU 5 HERMAN
LECKMAN BREWING CO SUB

and that said sums are the first and best liens against said premises; that, unless the defendants, **Patricia A. Osborne, "and all other Defendants",** shall within ten days from the date of the entry of said decree, pay or cause to be paid to the Clerk of said Court the costs (including the sum of $100.00 for preliminary foreclosure report) in this case incurred in the said cause of action, and to the plaintiff the sums so found due him as aforesaid, the defendants' equity of redemption shall be foreclosed and said premises sold, and that an order of sale issue to the Sheriff of Hamilton County, Ohio, directing him to advertise and sell said premises as upon execution, and without appraisement.

AND WHEREAS, afterwards, to-wit: on the **26th** day of **September** A.D. **2002,** in pursuance of said order and judgment of said Court, and founded thereon, an Order of Sale issued from said Court, in said cause, directed to **SIMON L. LEIS, JR.,** Sheriff of Hamilton County, Ohio, commanding him to execute the said order, and in all things to be governed by the provisions of the statute in such case made and provided, and of said order, with his proceedings thereon, he should make due return.

AND WHEREAS, I, the said **SIMON L. LEIS, JR.,** Sheriff aforesaid, having advertised the time and place of selling the same in the **Cincinnati Court Index** a newspaper printed and of general circulation in said County, for a period of thirty days prior to the day of sale, and otherwise complied with the said order and the provisions of the statute in relations to such cases, did on the **7th** day of **November,** A.D. **2002,** at the Sheriff's Office, in the Court House in Cincinnati, at 11:00 a.m. o'clock of said day, expose to sale at public auction, the premises hereinafter mentioned, and thereupon **The Keene Group, Inc.** did bid for the premises hereinafter described, the sum of **Forty-Two Thousand One Hundred Eighty-One Thousand Dollars Forty-Three Cents ($42,181.43)** which said sum being the highest and best bid offered for the same, the said premises were then and there stuck off to the said **The Keene Group, Inc., whose address is P.O. Box 30404, Cincinnati, Ohio 45230** the purchaser for the sum above mentioned.

AND WHEREAS, the said Court, at its **October** Term **2002,** having examined the proceedings of the said **SIMON L. LEIS, JR.,** Sheriff, aforesaid, in the premises under said order of sale, and being satisfied that the sale aforesaid had been made in all respects in pursuance of said judgment and order of sale, and according to the requisitions of the statute

regulating such sales, did order that such sale should be confirmed, and that the said Sheriff of Hamilton County should convey the said premises by deed in fee simple to the purchaser aforesaid.

NOW KNOW YE, That I, the said **SIMON L. LEIS, JR.**, Sheriff aforesaid, by virtue of said judgment, order for sale, sale, and confirmation, and of the statute in such cases made and provided, and for and in consideration of the premises herein, and the sum of **Forty-Two Thousand One Hundred Eighty-One Thousand Dollars Forty-Three Cents ($42,181.43) to me in hand paid by The Keene Group, Inc., the receipt of which is hereby acknowledged, do hereby sell and convey to The Keene Group, Inc., its successor and assigns forever, the following described real estate to-wit: Exhibit "A" attached hereto and incorporated herein by reference** together with all the privileges and appurtenances thereto belonging, and all the right, title and interest of the said **Patricia A. Osborne, et al** and of all the other parties to said suit, of, in, and to the same. To Have and to Hold, the premises aforesaid unto the said **The Keene Group, Inc., its successors and assigns** forever, as fully and completely as I, the said **SIMON L. LEIS, JR.**, Sheriff of Hamilton County, Ohio, by virtue of said judgment, order of sale, sale, and confirmation, and of the statute made and provided for such cases, might or should sell and convey the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal, this 9th day of January, A.D. 2003.

signed, sealed and acknowledged in presence of

Joanne E. Harris

Jessica Jones

Simon L. Leis, Jr. [SEAL]
Sheriff of Hamilton
County, Ohio

STATE OF OHIO)
)SS:
COUNTY OF HAMILTON)

Personally appeared before me, the undersigned, a Notary Public within and for said County, the above named SIMON L. LEIS, JR., Sheriff of Hamilton County, Ohio, the grantor in the above deed of conveyance, who acknowledged the signing and sealing of the same to be his voluntary act and deed, for the uses and purposes therein mentioned.

In Witness Whereof, I have hereunto set my hand and affixed my notarial seal this 9th day of January, A.D. 2003.

KIMBERLY A. FREY
Notary Public, State of Ohio
My Commission Expires Sept. 11, 2006

Kimberly A. Frey
Notary Public

This deed was prepared by:
W. E. Santen, Jr.
Sheriff's Conveyancer

" EXHIBIT A "

Situated in Section 24, Town 4, Fractional Range 1, Cincinnati Township, City of Cincinnati, Hamilton County, Ohio and being more particularly described as follows:

Commencing at the intersection of the north line of Fifth Street and the West line of Gest Street;

Thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

Thence continuing with said north line, South 81°00'00" West for 19.97 feet;

Thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the land herein described;

Thence South 8°02'05" West for 233.93 feet;

Thence North 8°57'55" West for 20.80 feet to the southeast corner of an existing brick building;

Thence with the south outside edge of said building, South 80°38'48" West for 53.45 feet to the southwest corner of said building;

Thence with the west side of said building, North 8°34'38" West for 203.23 feet to the South line of Sixth Street;

Thence with south line, North 81°10'30" East for 352.14 feet;

Thence leaving said South line, South 7°34'05" West, for 233.41 feet to the PLACE OF BEGINNING; and containing 1.6140 acres (70,306) square feet), more or less, subject however to all covenants, conditions, restrictions, reservations and easements contained in any instrument of record to the above described tract of land; and

Subject however to the following described easement for the purpose of ingress/egress and utilities:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

Thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

Thence continuing with said north line, South 81°00'10" West for 19.97 feet;

Thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING and containing 0.1432 acres (6,238 square feet) more or less.

Prior Deed References for Parcel B: Deed Book 1730, Page 600; Deed Book 1677, Page 280; Deed Bo ok 3437, Page 951; Deed Book 3359, Page 629, Hamilton County, Ohio Real Estate Records.

PPN: 136-4-243

213836.1

DESCRIPTION ACCEPTABLE
HAMILTON COUNTY ENGINEER

Tax Map - _____

CAGIS - _____

9232 4253

SHERIFF'S DEED

FROM

Patricia S. Osborne, et al.

PER

SIMON L. LEIS, Jr.

Sheriff of Hamilton County, Ohio

TO

The Keene Group, Inc.
P.O. Box 30404
Cincinnati, OH 45230

State of Ohio, Hamilton County, ss.

Presented for record on the day

of 1 at

o'clock, M.

Recorded 1

in Deed Book No. Page

County Recorder.

Auditor's Parcel No. 136-4-243

GENERAL WARRANTY DEED

The Keene Group, Inc., an Ohio Corporation and existing under the laws of the State of Ohio, for valuable consideration paid, grants with general warranty covenants, to **Hudepohl Square, LLC.**' SUITE 100 whose tax mailing address is 261 West McMillan Street, Cincinnati, Ohio 45219 the following real property, is further described on the attached Exhibit "A".

Subject to easements and restrictions of record and taxes and assessments due and payable in December, 2004, and thereafter, which the Grantee assumes and agrees to pay.

Being the same property conveyed to the Grantor(s) herein Official Record Book 9232, Page 4251 of the Deed Records of Hamilton County, Ohio.

IN WITNESS WHEREOF, grantor has caused its corporate name to be subscribed hereto by Prescott Bigelow, IV, its President, thereunto duly authorized by resolution of its Board of Directors, this 25th day of October, 2004.

Signed and acknowledged in the presence of:

The Keene Group, Inc.

By: _____
Prescott Bigelow, IV President

STATE OF OHIO, COUNTY OF HAMILTON ss:

BE IT REMEMBERED, That on the 25th day of October, 2004, before me, the subscriber, a Notary Public, in and for said County and State, personally came Prescott Bigelow, IV., its President, of the Grantor in the foregoing Deed, known to me and whose identity was proven by satisfactory evidence, and acknowledge the signing thereof to be its voluntary act and deed pursuant to the authority of its Board of Directors

IT TESTIMONY THEREOF, I have hereunto subscribed my name and affixed my seal on this day and year aforesaid.

_____
Notary Public

JOHN R. MECKSTROTH, JR.
Attorney at Law
Notary Public, State of Ohio
My Commission Has No Expiration
Date. Section 147.03 O.R.C

Prepared by:
John R. Meckstroth
Attorney at Law
22 West Fifth St. #202
Cincinnati, OH 45202
(513) 721-8808

Convey. number 22930
Deed number 36162
Instr. number 38486
Transfer date 10/29/2004
Sub. 322.00
Dup. 2.00
Mortgage Tax 319.202 LLC
Deed Tax 322.00
Transfer Fee 2.50
Recording Fee 44.00
Misc. 12.000
Total Paid 716.50

Rebecca Prem Groppe
Hamilton County Recorders Office
Doc #: 04-0226006 Type: DE
Filed: 11/01/04 08:20:44 AM $28.00
Off.Rec.: 09770 00868 F M27 2 108

b0977000868Fb

" EXHIBIT A "

Situated in Section 24, Town 4, Fractional Range 1, Cincinnati Township, City of Cincinnati, Hamilton County, Ohio and being more particularly described as follows:

Commencing at the intersection of the north line of Fifth Street and the West line of Gest Street;

Thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

Thence continuing with said north line, South 81°00'00" West for 19.97 feet;

Thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING for the land herein described;

Thence South 8°02'05" West for 233.93 feet;

Thence North 8°57'55" West for 20.80 feet to the southeast corner of an existing brick building;

Thence with the south outside edge of said building, South 80°38'48" West for 53.45 feet to the southwest corner of said building;

Thence with the west side of said building, North 8°34'38" West for 203.23 feet to the South line of Sixth Street;

Thence with south line, North 81°10'30" East for 352.14 feet,

Thence leaving said South line, South 7°34'05" West, for 233.41 feet to the PLACE OF BEGINNING; and containing 1.6140 acres (70,306) square feet), more or less, subject however to all covenants, conditions, restrictions, reservations and easements contained in any instrument of record to the above described tract of land; and

136-4-243 ST MR

Subject however to the following described easement for the purpose of ingress/egress and utilities:

Commencing at the intersection of the north line of Fifth Street and the west line of Gest Street;

Thence with the north line of Fifth Street, South 81°00'00" West for 441.58 feet;

Thence continuing with said north line, South 81°00'10" West for 19.97 feet;

Thence leaving said north line, North 7°34'05" East for 192.96 feet to the TRUE PLACE OF BEGINNING and containing 0.1432 acres (6,238 square feet) more or less.

Prior Deed References for Parcel B: Deed Book 1730, Page 600; Deed Book 1677, Page 280; Deed Book 3437, Page 951; Deed Book 3359, Page 629, Hamilton County, Ohio Real Estate Records.

PPN: 136-4-243

DESCRIPTION ACCEPTABLE
HAMILTON COUNTY ENGINEER

Tax Map - 10/29/04 MR

CAGIS - _____

213836.1

9770 869

MAIN PARCEL

DEED BK 1364 p405 405

Fees $1.65 Number # 14. Date Aug. 4th 1925 Series 6th Bk. 5 P. 380

Anderson Short Form — Woodrow • Cincinnati 93582 12-23 24 Bks.

From Herman W. Lackman

To The Niser Ice Cream Co.

Know All Men by These Presents:

That Herman W. Lackman, sole heir at law and devisee under the last will and testament of Albert Lackman, deceased,

In consideration of One ($1.00) Dollar and other good and valuable considerations, to him paid by The Niser Ice Cream Company, a corporation under the laws of Ohio, , the receipt whereof is hereby acknowledged, do es hereby **Grant, Bargain, Sell and Convey** to the said The Niser Ice Cream Company, a corporation under the laws of Ohio, its successors and assigns forever:

All the following described real estate in the City of Cincinnati, County of Hamilton and State of Ohio, to-wit:--

Being all of lots two (2) and five (5) and parts of lots one (1) and Three (3) on Plat of Survey of the Herman Lackman Brewing Company, recorded in Plat Book 14, page 78, County Recorder's Office, and more particularly described as follows:

Beginning on the south line of Sixth Street at the Northeast corner of the Malt House designated on said plat distant Ninety-seven 88/100 (97.88) feet west of the southwest corner of Sixth and Stone Streets; thence west along the south line of Sixth Street One Hundred and fifty-eight 82/100 (158.82) feet to the northwest corner of the Office Building shown on said plat; thence south along the west line of the office building and the west line of the Wash House also shown on said plat and said west line extended Two Hundred and three 34/100 (203.34) feet to a point in the north line of Carlisle Avenue distant Sixteen 59/100 (16.59) feet east of the east line of the Bottling House shown on said plat; thence east along the north line of Carlisle Avenue One Hundred and Ninety-seven 25/100 (197.25) feet to the west line of Stone Street; thence northeastwardly along the westerly line of Stone Street One Hundred and eighteen 04/100 (118.04) feet to a point in the westerly line of Stone Street where the same is intersected by a line Twelve and 25/100 (12.25) feet north of and parallel with the north line of the Boiler and Kilns house shown on said plat; thence west on said line Twelve 25/100 (12.25) feet north of and parallel with the north line of said Boiler and Kilns house and along the north line of the Pump House Thirty-two 81/100 (32.81) feet to the northwest corner of the Pump House shown on said plat; thence south at right angles to said last mentioned line Twelve 25/100 (12.25) feet to the north line of the Boiler and Kilns House; thence west along the north line of said Boiler and Kilns House Thirty-nine 16/100 (39.16) feet to the east line of the Malt House hereinbefore mentioned; thence north along the east line of said Malt House One Hundred and One 93/100 (101.93) feet to the south line of Sixth Street and place of beginning, being part of Lot Number Three (3) of Hathaway's estate as shown in Plat Book 1, page 252 of the records of plats in the recorder's office of said County.

and all the **Estate, Title and Interest** of the said Herman W. Lackman, either in Law or Equity of, in and to the said premises; **Together** with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; **To have and to hold** the same to the only proper use of the said The Niser Ice Cream Company, a corporation, as agoresaid, its successors and assigns forever.

And the said Herman W. Lackman for himself and his heirs, executors and administrators, ~~successors~~ do es hereby **Covenant** with the said The Niser Ice Cream Company, a Corporation, as aforesaid, its ~~heirs~~ successors and assigns, that he is the true and lawful owner of the said premises, and has full power to convey the same; and that the title so conveyed is **Clear, Free and Unincumbered**; And further, that he do es **Warrant and will Defend** the same against all claim or claims, of all persons whomsoever: except the taxes due and payable after June 1924, and all assessments due and payable after December 8th, 1923, which the grantee assumes and agrees to pay.

In Witness Whereof, The said Herman W. Lackman, sole heir at law and devisee under the last will and testament of Albert Lackman, deceased, and Charlotte Rockwell Lackman, his wife, who hereby releases all her rights and expectancy of **Dower** in the said premises, have hereunto set their hands this 10th day of January in the year of our Lord **one thousand nine hundred and** twenty-five. (1925)..

Signed and acknowledged in presence of--

Walter Schmitt	Herman W. Lackman
Emily Stauss	Charlotte Rockwell Lackman

($75.00 Int.Rev.Stamps Cancelled)

The State of Ohio, **County of** Hamilton ss.

Be it Remembered, That on this 10th day of January in the year of our Lord, one thousand nine hundred and twenty-five (1925) before me the [illegible]

BK 1543
P 309

KNOW ALL MEN BY THESE PRESENTS:

That, WHEREAS, on the 27th. day of March, 1928, Charlotte Rockwell Lackman was duly appointed and qualified as administratrix of the Estate of Herman W. Lackman, Deceased, late of Hamilton County, Ohio, by the Probate Court of said County, and afterwards, to-wit: On the 17th day of June, 1929, filed her petition in the Probate Court of said County, being No. 10758 on the Docket of said Court for an order authorizing her to complete a contract made by said Herman W. Lackman to convey certain real estate hereinafter described.

And WHEREAS, afterwards, on the 9th day of July, 1929, said petition came on to be heard, and the Court ordered that said Charlotte Rockwell Lackman, Administratrix of the Estate of Herman W. Lackman, Deceased, complete said contract and make, execute and deliver to the Miser Ice Cream Company, a corporation organized and existing under the laws of the State of Ohio, a warranty deed in fee simple for said premises, upon the payment of the purchase money remaining unpaid, which Order is in words as follows, to-wit:

"This day this cause came on to be heard upon the petition of Charlotte Rockwell Lackman, Administratrix of the estate of Herman W. Lackman, Deceased, for authority to complete a contract made by said Herman W. Lackman during his lifetime, to convey certain real estate; and the same was submitted to the Court upon the petition, the answer of The Miser Ice Cream Company, the answer of Charlotte Rockwell Lackman, widow of Herman W. Lackman, deceased, the answer of the minor defendants, Herman W. Lackman, Jr., John L. Lackman, Elizabeth A. Lackman, Lewis Rockwell Lackman and Charles Henry Lackman by William J. Runk, their Guardian Ad Litem, heretofore appointed herein, and the evidence.

"Whereupon the Court finds, after due consideration that all of the parties in interest have been served with process as required by law and that the allegations and statements contained in said petition are true.

"The Court further finds that there still remains due on said contract from The Miser Ice Cream Company the sum of Twenty-four Thousand ($24,000.00) Dollars, and that said The Miser Ice Cream Company is ready and willing to complete said contract.

"Therefore, it is ordered by the Court that said Charlotte Rockwell Lackman, Administratrix of the estate of Herman W. Lackman, Deceased, be, and she hereby is, authorized to complete said contract and execute a proper deed of general warranty for and on behalf of the heirs at law of said Herman W. Lackman, Deceased, and all other parties to this suit, to the purchaser, The Miser Ice Cream Company, an Ohio corporation, for the real estate in the petition described, and, upon the payment of said sum of Twenty-four Thousand ($24,000.00) Dollars, deliver the same to said The Miser Ice Cream Company,

all of which will more fully appear by the records of said Court, to which reference is hereby made.

Four Thousand [illegible] Company, the receipt whereof is hereby acknowledged, do hereby grant, bargain, sell and convey to said The Niser Ice Cream Company, a corporation organized and existing under the Laws of the State of Ohio, its successors and assigns forever, the following described real estate, to-wit:

"Situated in the City of Cincinnati, County of Hamilton and State of Ohio, and being all of Lot Four (4) and that part of lot Number Three (3) not heretofore leased to Milton A. Mailender, on plat of survey of The Herman Lackman Brewing Company made by E. W. Wulfekoetter, Jr., and recorded in Plat Book 14, page 78, Hamilton County, Recorder's Office, more particularly described as follows:

"Beginning at a point on the south side of Sixth Street two hundred and fifty-six and 70/100 (256.70) feet west of the southwest corner of Sixth and Stone Streets, which point is also the northwest corner of said tract leased to Milton A. Mailender; thence south along the west line of the office building and the west line of the Wash House also shown on said plat and said west line extended, two hundred and three and 34/100 (203.34) feet to a point in the north line of Carlisle Avenue distance one hundred and ninety-seven and 25/100 (197.25) feet west of Stone Street; thence west along the north line of Carlisle Avenue seventy and 12/100 (70.12) feet to the west line of said lot Number Four (4); thence north along the west line of Lot Number Four (4) ninety-three and 66/100 (93.66) feet to a point; thence east 0.60 feet to a point; thence north along the west line of lot Number Four (4), one hundred and ten (110) feet to the south line of Sixth Street; thence east along the south line of Sixth Street sixty-nine and 6/10 (69.6) feet to the place of beginning."

To have and to hold said premises, with all the privileges and appurtenances thereto belonging to said The Niser Ice Cream Company, its successors and assigns forever, as fully and completely as the said Charlotte Rockwell Lackman, as such Administratrix, by virtue of said order of Court and of the Statute made and provided for such cases, might or should sell and convey the same.

IN WITNESS WHEREOF, the said Charlotte Rockwell Lackman, as such Administratrix, has hereunto set her hand, this 10th day of July, A. D. 1929.

Signed and acknowledged in the presence of

Edward F. Hammond

Walter Schmitt

Charlotte Rockwell Lackman
Administratrix of the Estate of Herman W. Lackman, Deceased.

STATE OF OHIO HAMILTON COUNTY, ss.

Be it remembered, that on this 10th. day of July, 1929, before me, the subscriber, a Notary Public, in and for said County, personally came the above named Charlotte Rockwell Lackman, as administratrix of the Estate of Herman W. Lackman, Deceased, the grantor in the foregoing deed, and acknowledged the signing of the same to be her voluntary act and deed as such owner, for the uses and purposes therein mentioned.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my offical seal on the day and year last aforesaid.

Walter Schmitt
Notary Public, Hamilton County, Ohio.

BK 1543 p 309

BK 1640 p670

Gen. Ind. 7th Ser. Bk. 79 P 148 JUL—7-33 56392 —Ods— 2.0

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS:

That, The Niser Ice Cream Company, a corporation organized and existing under the laws of the State of Ohio, in consideration of One Dollar ($1.00) and other good and valuable considerations to it paid by The Sohn Brewing Company, a corporation organized and existing under the laws of the State of Ohio, the receipt whereof is hereby acknowledged, does hereby grant, bargain, sell and convey to the said The Sohn Brewing Company, a corporation organized and existing under the laws of Ohio, its successors and assigns forever:

All the following described real estate in the City of Cincinnati, County of Hamilton and State of Ohio, to-wit:
Being all of Lots two (2) and five (5) and parts of lots One (1) and Three (3) on Plat of Survey of the Herman Lackman Brewing Company, recorded in Plat Book 14, page 78, County Recorder's Office, and more particularly described as follows:

Beginning on the south line of Sixth Street at the Northeast corner of the Malt House designated on said plat distant Ninety-seven 88/100 (97.88) feet west of the southwest corner of Sixth and Stone Streets; thence west along the south line of Sixth Street One Hundred and fifty-eight 82/100 (158.82) feet to the northwest corner of the Office Building shown on said plat; thence south along the west line of the office building and the west line of the Wash House also shown on said plat and said west line extended Two Hundred and three 34/100 (203.34) feet to a point in the north line of Carlisle Avenue distant Sixteen 59/100 (16.59) feet east of the east line of the Bottling House shown on said plat; thence east along the north line of Carlisle Avenue One Hundred and Ninety-seven 25/100 (197.25) feet to the west line of Stone Street; thence northeastwardly along the westerly line of Stone Street One Hundred and eighteen 04/100 (118.04) feet to a point in the westerly line of Stone Street where the same is intersected by a line Twelve and 25/100 (12.25) feet north of and parallel with the north line of the Boiler and Kilns house shown on said plat; thence west on said line Twelve 25/100 (12.25) feet north of and parallel with the north line of said Boiler and Kilns house and along the north line of the Pump House Thirty-two 81/100 (32.81) feet to the northwest corner of the Pump House shown on said plat; thence south at right angles to said last mentioned line Twelve 25/100 (12.25) feet to the north line of the Boiler and Kilns House; thence west along the north line of said Boiler and Kilns house thirty-nine 16/100 (39.16) feet to the east line of the Malt House hereinbefore mentioned; thence north along the east line of said Malt House One Hundred and One 93/100 (101.93) feet to the south line of Sixth Street and place of beginning, being part of Lot number Three (3) of Hathaway's estate as shown in Plat Book 1, page 252 of the records of plats in the recorder's office of said County. Being the same premises conveyed to the grantor herein by deed dated January 10, 1925, and recorded in Deed Book 1364 page 405 of the Hamilton County Ohio Records of Deeds.

Also the following described real estate:

Situated in the City of Cincinnati, County of Hamilton and State of Ohio, and being All of Lot Four (4) and that part of lot Number Three (3) not heretofore leased to Milton A. Mallender, on plat of survey of the Herman Lackman Brewing Company made by E. W. Wulfekoetter, Jr., and recorded in Plat Book 14, page 78, Hamilton

County, Recorder's Office, more particularly described as follows:

Beginning at a point on the south side of Sixth Street, two hundred and fifty-six and 70/100 (256.70) feet west of the south west corner of Sixth and Stone Streets, which point is also the northwest corner of said tract leased to Milton A. Mailender; thence south along the west line of the office building and the west line of the Wash House also shown on said plat and said west line extended, two hundred and three and 34/100 (203.34) feet to a point in the north line of Carlisle Avenue distance one hundred and ninety-seven and 25/100 (197.25) feet west of Stone Street; thence west along the north line of Carlisle Avenue seventy and 12/100 (70.12) feet to the west line of said lot Number Four (4); thence north along the west line of Lot Number Four (4) ninety-three and 66/100 (93.66) feet to a point; thence east 0.60 feet to a point; thence north along the west line of lot Number Four (4), one hundred and ten (110) feet to the south line of Sixth Street; thence east along the south line of Sixth Street sixty-nine and 6/10 (69.6) feet to the place of beginning, next adjoining on the west the lands of the grantor herein-above described.

Being the same premises conveyed to the grantor herein by Deed dated July 10, 1929, and recorded in Deed Book No. 1543, page 309 of the Hamilton County Ohio Records of Deeds.

and all the estate, title and interest of said The Niser Ice Cream Company, a corporation as aforesaid, either in law or equity, of, in and to the said premises; together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said The Sohn Brewing Company, a corporation as aforesaid, its successors and assigns forever.

And the said The Niser Ice Cream Company, a corporation as aforesaid, for itself and for its successors and assigns, does hereby covenant with the said The Sohn Brewing Company, a corporation as aforesaid, its successors and assigns, that it is the true and lawful owner of the said premises, and has full power to convey the same; that the title so conveyed is clear, free and unincumbered; And further, that it does warrant and will defend the same against all claim or claims or all persons whomsoever; except the taxes and assessments due and payable in December, 1933, and thereafter, which the grantee assumes and agrees to pay.

IN WITNESS WHEREOF the said The Niser Ice Cream Company, a corporation as aforesaid, by Milton A. Mailender, its President and Henry Townsend, its Treasurer, has hereunto set its hand and seal this 6th day of July, 1933.

Signed and acknowledged in the presence of:

Eugene B. Hess

Mary Burns

THE NISER ICE CREAM COMPANY

BY M. A. Mailender
Its President

Henry Townsend
Its Treasurer

STATE OF OHIO
HAMILTON COUNTY ss:

Personally appeared before me, a notary public in and

B 1677 p 280

80

[illegible] petition was filed in the United States District Court for the Southern District of Ohio, Western Division by the Kiser Ice Cream Company, et al against the Sohn Brewing Company praying for a reorganization under Section 77-B of the United States Bankruptcy Act, and

WHEREAS, on the 3rd day of October, 1934, said The Sohn Brewing Company filed an answer in said cause agreeing that said The Sohn Brewing Company should be reorganized under said Section 77-B of the United States Bankruptcy Act, and that the court should take appropriate proceedings thereunder, and

WHEREAS, on the 30th day of November, 1934, the United States District Court for the Southern District of Ohio, Western Division appointed Sidney G. Kusworm as trustee of said The Sohn Brewing Company, and

WHEREAS, on the 17th day of December, 1934, after due notice was given according to law, said appointment of the said Sidney G. Kusworm as such trustee was made permanent by said District Court for the Southern District of Ohio, Western Division, and

WHEREAS, said The Sohn Brewing Company made diligent efforts to reorganize without avail, and

WHEREAS, said United States District Court aforesaid was advised from time to time of the attempted reorganization of said Sohn Brewing Company, and

WHEREAS, it was impossible to reorganize said Sohn Brewing Company and that fact was reported to said United States District Court aforesaid, and

WHEREAS, said trustee aforesaid received a bid for the assets of the said The Sohn Brewing Company of Ninety-eight thousand five hundred dollars ($98,500) in cash and reported same to said United States District Court on February 26, 1935, and

WHEREAS, said bid aforesaid was subject to withdrawal by the maker of same if not accepted on or before March 5, 1935, and

WHEREAS, on February 26, 1935, said United States District Court aforesaid ordered that notices be sent to all creditors that on March 6, 1935, the said United States District Court aforesaid would consider a bid of Ninety-eight thousand five hundred dollars ($98,500) or such amount

MAR 5 '35

WHEREAS, said bid provided that said sum of Ninety-eight thousand five hundred dollars ($98,500.) was for all of the assets of said Sohn Brewing Company free from all liens and encumbrances, and 1677 23

WHEREAS, said United States District Court aforesaid on March 5, 1935, accepted said bid and ordered the trustee to make proper instruments of conveyance to the purchaser for the assets of said Sohn Brewing Company free of all liens,

NOW, THEREFORE, I, the undersigned, Sidney G. Kusworm, Trustee of the said The Sohn Brewing Company as aforesaid, by virtue of the title and powers in me invested by the provisions of the Bankruptcy and Equity laws of the United States, and by said orders of court authorizing said sale and confirming the same, and

FOR AND IN CONSIDERATION of the sum of Ninety-eight thousand five hundred dollars ($98,500) to me in hand paid by The Hudepohl Brewing Company, the bidder aforesaid, the receipt of which is hereby acknowledged, do hereby give, grant, bargain, sell, set over and convey to the said The Hudepohl Brewing Company, an Ohio corporation, its successors and assigns, forever free and clear of all claims of lien and interests therein, all my right, title and interest in and to the following described real estate, to-wit:

Situate in the City of Cincinnati, County of Hamilton and State of Ohio, and being more particularly described as follows:

Being all of Lots 2 and 5 and parts of Lots 1 and 3 on the plat of survey for The Herman Lackman Brewing Company as recorded in Plat Book No. 14, page 78 of the Plat Records of Hamilton County, Ohio, and more particularly described as follows:

Beginning on the south line of Sixth Street at the northeast corner of the Malt House designated on said plat distant Ninety-seven and 88/100 feet (97.88) west of the southwest corner of Sixth and Stone Streets; thence west along the south line of Sixth Street one hundred fifty-eight and 82/100 feet (158.82) to the northwest corner of the Office Building shown on said plat; thence south along the west line of the Office Building and the west line of the Wash House also shown on said plat, and said west line extended two hundred three and 34/100 feet (203.34) to a point in the north line of Carlisle Avenue distant sixteen and 59/100 feet (16.59) east of the east line of the Bottling House shown on said plat; thence east along the north line of Carlisle Avenue one hundred ninety-seven and 25/100 feet (197.25) to the west line of Stone Street; thence northeastwardly along the westerly line of Stone Street one hundred eighteen and 4/100 feet (118.04) to a point in the westerly line of Stone Street where the same is intersected by a line twelve and 25/100 feet (12.25) north of and parallel with the north line of the Boiler and Kilns House, shown on said plat; thence westwardly on said line twelve and 25/100 feet (12.25) north of and parallel with the north line of said Boiler and Kilns House, and along the north line of the Pump House shown on said plat thirty-two and 81/100 feet (32.81) to the northwest corner of the Pump House as shown on said plat; thence south at right angles to said last mentioned line twelve and 25/100 feet (12.25) to the north line of the Boiler and Kilns House; thence west along the north line of said Boiler and Kilns House thirty-nine and 16/100 feet (39.16) to the east line of the Malt House hereinbefore mentioned; thence north along the east line of said Malt House one hundred one and 93/100 feet (101.93) to the south line of Sixth Street at the place of beginning, and being part of Lot No. 3 of Hathaway's estate as shown on plat recorded in Plat Book 1, page 252 of the Records of Plats of said Hamilton County, Ohio, and being the same premises conveyed to The Sohn Brewing Company by deed from The Niser Ice Cream Company executed July 6, 1933, and recorded in Deed Book 1640, page 670 of the Hamilton County Ohio Records of Deeds;

Also the following described real estate:

Situated in the City of Cincinnati, County of Hamilton and State of Ohio, and being all of Lot 4 and the part of Lot 3 not heretofore leased to Milton A. Mailander, on the plat of survey of The Herman Lackman Brewing Company made by E. W. Wulfekoetter Jr. and recorded in Plat Book 14, page 78 of the Hamilton County Ohio Records of Plats and more particularly described as follows:

Beginning at a point on the south side of Sixth Street two hundred fifty-six and 70/100 feet (256.70) west of the southwest corner of Sixth and Stone Streets which point is also the northwest corner of said tract leased

BK/1677 p281 NOW, THEREFORE, I, the undersigned, Sidney G. Kusworm, Trustee of the said The Sohn Brewing Company as aforesaid, by virtue of the title and powers in me invested by the provisions of the Bankruptcy and Equity laws of the United States, and by said orders of court authorizing said sale and confirming the same, and

FOR AND IN CONSIDERATION of the sum of Ninety-eight thousand five hundred dollars ($98,500) to me in hand paid by The Hudepohl Brewing Company, the bidder aforesaid, the receipt of which is hereby acknowledged, do hereby give, grant, bargain, sell, set over and convey to the said The Hudepohl Brewing Company, an Ohio corporation, its successors and assigns, forever free and clear of all claims of lien and interests therein, all my right, title and interest in and to the following described real estate, to-wit:

Situate in the City of Cincinnati, County of Hamilton and State of Ohio, and being more particularly described as follows:

Being all of Lots 2 and 5 and parts of Lots 1 and 3 on the plat of survey for The Herman Lackman Brewing Company as recorded in Plat Book No. 14, page 78 of the Plat Records of Hamilton County, Ohio, and more particularly described as follows:

Beginning on the south line of Sixth Street at the northeast corner of the Malt House designated on said plat distant Ninety-seven and 88/100 feet (97.88) west of the southwest corner of Sixth and Stone Streets; thence west along the south line of Sixth Street one hundred fifty-eight and 82/100 feet (158.82) to the northwest corner of the Office Building shown on said plat; thence south along the west line of the Office Building and the west line of the Wash House also shown on said plat, and said west line extended two hundred three and 34/100 feet (203.34) to a point in the north line of Carlisle Avenue distant sixteen and 59/100 feet (16.59) east of the east line of the Bottling House shown on said plat; thence east along the north line of Carlisle Avenue one hundred ninety-seven and 25/100 feet (197.25) to the west line of Stone Street; thence northeastwardly along the westerly line of Stone Street one hundred eighteen and 4/100 feet (118.04) to a point in the westerly line of Stone Street where the same is intersected by a line twelve and 25/100 feet (12.25) north of and parallel with the north line of the Boiler and Kilns House, shown on said plat; thence westwardly on said line twelve and 25/100 feet (12.25) north of and parallel with the north line of said Boiler and Kilns House, and along the north line of the Pump House shown on said plat thirty-two and 81/100 feet (32.81) to the northwest corner of the Pump House as shown on said plat; thence south at right angles to said last mentioned line twelve and 25/100 feet (12.25) to the north line of the Boiler and Kilns House; thence west along the north line of said Boiler and Kilns House thirty-nine and 16/100 feet (39.16) to the east line of the Malt House hereinbefore mentioned; thence north along the east line of said Malt House one hundred one and 93/100 feet (101.93) to the south line of Sixth Street at the place of beginning, and being part of Lot No. 3 of Hathaway's estate as shown on plat recorded in Plat Book 1, page 252 of the Records of Plats of said Hamilton County, Ohio, and being the same premises conveyed to The Sohn Brewing Company by deed from The Niser Ice Cream Company executed July 6, 1933, and recorded in Deed Book 1640, page 670 of the Hamilton County Ohio Records of Deeds;

Also the following described real estate:

Situated in the City of Cincinnati, County of Hamilton and State of Ohio, and being all of Lot 4 and the part of Lot 3 not heretofore leased to Milton A. Mailender, on the plat of survey of The Herman Lackman Brewing Company made by E. W. Wulfekoetter Jr. and recorded in Plat Book 14, page 78 of the Hamilton County Ohio Records of Plats and more particularly described as follows:

Beginning at a point on the south side of Sixth Street two hundred fifty-six and 70/100 feet (256.70) west of the southwest corner of Sixth and Stone Streets which point is also the northwest corner of said tract leased to Milton A. Mailender; thence south along the west line of the Office Building and the line of the Wash House also shown on said plat, and said west line extended two hundred three and 34/100 feet (203.34) to a point in the north line of Carlisle Avenue which said point is distant one hundred ninety-seven and 25/100 feet (197.25) west of Stone Street; thence west along the north line of Carlisle Avenue seventy and 12/100 feet (70.12) to the west line of said Lot No. 4; thence north along the west line of said Lot No. 4 ninety-three and 66/100 feet (93.66) to a point; thence east sixty one-hundredths feet (.60) to a point; thence north along the west line of Lot No. 4 one hundred ten feet (110) to the south line of Sixth Street and thence east along the South line of Sixth Street sixty-nine and 6/10 feet (69.6) to the place of beginning and being the premises next adjoining on the west the lands first hereinabove described.

BK 1677 p 282

82

[illegible] Company by deed [illegible] as of July [illegible], 1935, and recorded [illegible] page [illegible] of the Hamilton County Ohio Records of Deeds.

1677 - 282 TO HAVE AND TO HOLD the same to the said The Hudepohl Brewing Company, its successors and assigns forever, as fully and completely as I, the undersigned trustee by virtue of the powers and authority so [illegible] by the provisions of the Bankruptcy and Equity laws of the United States might or should sell and convey the same.

IN WITNESS WHEREOF, I, Sidney G. Kusworm, as such trustee, have hereunto set my hand at Cincinnati, Ohio, this 5th day of March A. D. 1935.

Signed and acknowledged in presence of:

[illegible]

[illegible]

Sidney G Kusworm
As Trustee of the Estate of
The Sohn Brewing Company, Bankrupt

STATE OF OHIO, HAMILTON COUNTY S[illegible]

Be it remembered, that on the 5th day of March in the [illegible] Lord one thousand nine hundred and thirty-five before me, the subscriber, notary public in and for said county, personally came Sidney G. [illegible] trustee of the Estate of The Sohn Brewing Company, Bankrupt, the [illegible] foregoing Deed, and acknowledged the signing thereof to be his [illegible] for the uses and purposes therein mentioned.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name. [illegible] notarial seal, on the day and year last aforesaid.

MARY ALICE ZIMMERMAN

Mary Alice Zimmerman
Notary Public, Hamilton County, Ohio.

[illegible] Dec. 24 at 2:15 pm
LEO M. [illegible] RECORDER, HAMILTON COUNTY, O. H

Gen. Ind. 7th Ser. Bk. 30 P 470

WARRANTY DEED
With Dower—Copyrighted.

The W. H. Anderson Co., Law Book Publishers, Cincinnati, O.

Know all men by these presents:

That William M. Brandt,
in consideration of One ($1.00) Dollar and other valuable consideration

to him paid by Eileen K. Mueller

the receipt whereof is hereby acknowledged, do es hereby Grant, Bargain, Sell and Convey to the said Eileen K. Mueller

her heirs and assigns forever:

the following described real estate in the City of Cincinnati, County of Hamilton, State of Ohio, being Lot Number Twenty-three (23) of Swiss Garden Subdivision as per plat recorded in Plat Book 32, page 67, Hamilton County, Ohio, Records.

Said property being subject to an easement for walk ten (10) feet [illegible] to and south of the north line of the above

NORTHEAST PARCEL

KNOW ALL MEN BY THESE PRESENTS: THAT,

Whereas, *on the* 9th *day of* January, 1936 *, in the* January *Term A. D. 1936 , of the Court of Common Pleas of Hamilton County, Ohio, in cause No.* A-50977 *of said Court, the Court rendered a judgment finding*

Plaintiff, The Central Trust Company, is entitled to recover Twenty-two Thousand, Six Hundred, Twenty-seven and 33/100 ($22,627.33) Dollars from Max Steinberg and Pauble Steinberg; and Plaintiff, The Central Trust Company, is entitled to recover from Jacob Steinberg and Kate Steinberg, the sum of Twenty Thousand, One Hundred Two and 00/100 ($20,102.00) Dollars, also amount due Plaintiff on judgment in Case No. A-33473, together with a Decree for foreclosure of a certain real estate mortgage,

against Max Steinberg, Pauble Steinberg, Jacob Steinberg and Kate Steinberg,

in a civil action pending and numbered A-50977 *in said Court of Common Pleas, as aforesaid, wherein*

The Central Trust Company, an Ohio corporation,

as Plaintiff , and

Max Steinberg, Pauble Steinberg,
Jacob Steinberg, Kate Steinberg,
Helen Ganim,
Joseph A. Helmers, Trustee, and
Elmer F. Hunsicker, Clerk of Courts of Hamilton County, Ohio,

were Defendants; the Court having found among other things that all parties were properly before the Court.

AND WHEREAS, on the 16th *day of* January, 1936 *a certain Order of Sale was duly issued on said judgment and decree by said Court directed to GEORGE A. LUTZ, Sheriff of Hamilton County, Ohio, commanding him to proceed according to law to appraise, advertise and sell the lands and tenements hereinafter described according to the statutes in such cases made and provided;*

AND WHEREAS, having caused said real-estate to be duly appraised, and copy of the appraisement to be duly filed in the office of the Clerk of said Court, and having first given more than thirty (30) days previous notice of the time and place of the sale thereon by causing same to be published for consecutive weeks and on the same day of each week in the

Court Index,

being a newspaper printed and of general circulation in said County of Hamilton.

AND WHEREAS, on the 27th *day of* February, 1936, *GEORGE A. LUTZ, Sheriff, as aforesaid, did in pursuance to such notice expose said real estate to sale at public auction in the Sheriff's Office in the Court House in the City of Cincinnati, in said County, and the same was then and there publicly sold and struck off to*

The Central Trust Company,

for the sum of Ten Thousand, Six Hundred, Sixty-Six and 67/100 ($10,666.67) Dollars,

being the highest and best bid therefor, and being more than two-thirds the appraisal value thereof.

AND WHEREAS, at the January *Term of Court, A. D. 1936 the said proceedings of said Sheriff had in the premises were submitted to said Court and by it in all respects confirmed and the said Sheriff was ordered and directed to convey said premises by deed in fee simple to the purchaser aforesaid.*

NOW KNOW YE: That I, GEORGE A. LUTZ, Sheriff aforesaid, by virtue of said judgment and decree, order for sale, sale and confirmation and of the statute in such cases made and provided, and for and in consideration of the premises herein and the sum of Ten Thousand, Six Hundred, Sixty-Six and 67/100 ($10,666.67) Dollars, *to me paid by*

The Central Trust Company,

receipt of which I hereby acknowledge, do hereby sell and convey to

The Central Trust Company, its

~~heirs~~ *successors and assigns forever, the following described real-estate, to-wit:*

Situated, lying and being in the City of Cincinnati, Hamilton County, Ohio, and described as follows: Being part of Lot Number One (1) on plat of survey of The Herman Lackman Brewing Company, recorded in Plat Book 14, page 78, in the County Recorder's Office, and more particularly described as follows:

Beginning at the southwest corner of Sixth and Stone Streets; thence southwestwardly along the westerly line of Stone Street ninety-two and seventy-five one-hundredths (92.75) feet to a point in the westerly line of Stone Street where the same is intersected by a line twelve and twenty-five one-hundredths (12.25) feet north of and parallel with the north line of the Boiler and Kilns house shown on said plat; thence west on said line twelve and twenty-five one-hundredths (12.25) feet north and parallel with the north line of said Boiler and Kilns house and along the north line of the Pump house thirty-two and eighty-one one-hundredths (32.81) feet to the northwest corner of the Pump House shown on said plat; thence south at right angles to said last mentioned line twelve and twenty-five one-hundredths (12.25) feet to the north line of the Boiler and Kilns house; thence west along the north line of said Boiler and Kilns house thirty-nine and seventeen one-hundredths (39.17) feet to the east line of the Malt house shown on said plat; thence north along the east line of said Malt house, one hundred and one and ninety-three one-hundredths (101.93) feet to the south line of Sixth Street; thence east along the south line of Sixth Street ninety-seven and eighty-eight one-hundredths (97.88) feet to the southwest corner of Sixth and Stone Streets and place of beginning.

Known as the southwest corner of Sixth and Stone Streets, Cincinnati, Hamilton County, Ohio.

together with all the privileges and appurtenances thereto belonging, and all the right, title and interest of the said

Max Steinberg,

and of all the other parties to said suit, of, in, and to the same. TO HAVE AND TO HOLD, the premises aforesaid unto the said

The Central Trust Company, its

~~heirs~~ *successors and assigns forever, as fully and completely as I, the said GEORGE A. LUTZ, Sheriff of Hamilton County, Ohio, by virtue of said judgment and decree, order for sale, sale and confirmation, and of the statutes made and provided for such cases might or should sell and convey the same.*

IN WITNESS WHEREOF, I have hereunto set my hand and seal, this 23rd *day of* March, 1936.

Signed, sealed and acknowledged in presence of

Frank M. Quseweiler

Henry F. Wehrmann

George A. Lutz [SEAL]
Sheriff of Hamilton County, Ohio.

STATE OF OHIO }
Hamilton County } ss.

Personally appeared before me, the undersigned, a Notary Public within and for said County, the above named GEORGE A. LUTZ, Sheriff of Hamilton County, Ohio, the grantor in the above deed of conveyance, who acknowledged the signing and sealing of the same to be his voluntary act and deed, for the use and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal this 23rd *day of* March, 1936.

Frank M. Quseweiler
Notary Public, Hamilton County, Ohio.
Frank M. Quseweiler

JUN 24 ...
GEO. GUCKENBERGER
AUDITOR

Notary Public
Hamilton County, Ohio

Bk 1715 p 127

REC. FOR RECORD Dec 5 No. 33 At 3:13 Pm
LEO. H. BECKMAN RECORDER, HAMILTON COUNTY, OHIO

WARRANTY DEED, ~~OR HERITAGE~~
(For Corporation.)

The W. H. Anderson Co., Law Book Publishers, Cincinnati, Ohio.

Gen. Ind. 7th Ser Bk. 29 P 148

JUN 24-36 5 0 5 / 8 1 —Dds Mar 1 25

Know all men by these presents:

That The Central Trust Company

the grantor,

a corporation organized and existing under the laws of the State of Ohio

in consideration of One Dollar ($1.00) and other good and valuable considerations

to it paid by Jacob Noiman and Liba Noiman

the receipt whereof is hereby acknowledged, does hereby **Grant, Bargain, Sell and Convey** *to the said* Jacob Noiman and Liba Noiman

their *heirs,* ~~xxxxxxxx~~ *and assigns forever,*

the following described real estate, to wit:

Situated, lying and being in the City of Cincinnati, Hamilton County, Ohio, and described as follows: Being part of Lot Number One (1) on plat of survey of The Herman Lackman Brewing Company, recorded in Plat Book 14, page 78, in the County Recorder's Office, and more particularly described as follows:

Beginning at the southwest corner of Sixth and Stone Streets; thence southwestwardly along the westerly line of Stone Street ninety-two and seventy-five one-hundredths (92.75) feet to a point in the westerly line of Stone Street where the same is intersected by a line twelve and twenty-five one-hundredths (12.25) feet north of and parallel with the north line of the Boiler and Kilns house shown on said plat; thence west on said line twelve and twenty-five one-hundredths (12.25) feet north and parallel with the north line of said Boiler and Kilns house and along the north line of the Pump house thirty-two and eighty-one one-hundredths (32.81) feet to the northwest corner of the Pump house shown on said plat; thence south at right angles to said last mentioned line twelve and twenty-five one-hundredths (12.25) feet to the north line of the Boiler and Kilns house; thence west along the north line of said Boiler and Kilns house thirty-nine and seventeen one-hundredths (39.17) feet to the east line of the Malt house shown on said plat; thence north along the east line of said Malt house one hundred and one and ninety-three one-hundredths (101.93) feet to the south line of Sixth Street; thence east along the south line of Sixth Street ninety-seven and eighty-eight one-hundredths (97.88) feet to the southwest corner of Sixth and Stone Streets and place of beginning.

Being the same premises conveyed to the grantor herein by Sheriff's Deed recorded in Deed Book 1706, page 434, Hamilton County, Ohio, Recorder's office.

1715 - 128

and all the **Estate, Title and Interest** *of the said* The Central Trust Company

grantor,

either in Law or Equity, in and to the said premises; **Together** *with all the privileges and appurtenances to the same belonging:* **To have and to hold** *the same to the only proper use of the said* Jacob Noiman and Liba Noiman

their *heirs,* ~~successors~~ *and assigns forever.*

And the said The Central Trust Company

grantor,

for itself and for its successors, hereby **Covenants** *with the said* Jacob Noiman and Liba Noiman,

their *heirs,* ~~successors~~ *and assigns, that it is the true and lawful owner of the said premises, and has full power to convey the same; and that the title so conveyed is* **Clear, Free and Unincumbered; And further,** *That it* **does Warrant and will Defend** *the same against all claims of all persons whomsoever:* excepting, however, taxes and assessments due and payable in December, 1936, and thereafter, and any and all outstanding building orders issued by the City of Cincinnati.

In Witness Whereof, *The said* The Central Trust Company,

grantor has caused its corporate name to be hereunto subscribed and its corporate seal hereunto affixed, by H. P. Colville, *its* Vice *President,*

and Val G. Boeh, *its* Asst. *Secretary,*

thereunto duly authorized by resolution of its Board of Directors, this 22nd *day of* June *in the year of our Lord one thousand nine hundred and* thirty-six *(1936).*

Signed and acknowledged in presence of us

Frederick D. Berger

Dusnelda Bruckner

THE CENTRAL TRUST COMPANY

By H P Colville

its Vice - ~~Asst~~ President.

Val G. Boeh

its Secretary.

The State of OHIO **County of** HAMILTON **SS:**

Be It Remembered, *That on this* 22nd *day of* June *in the year of our Lord, one thousand nine hundred and* thirty-six *(1936), before me, the subscriber, a Notary Public in and for said County and State, personally appeared*

H. P. Colville, Vice President

REC. FOR RECORD Nov 46 AT 10:54 A.M.
LEO. H. BECKMAN RECORDER, HAMILTON COUNTY, O.

Bk 1715 p647

Gen. Ind. 7th Ser Bk. 79 P 148

WARRANTY DEED
With Dower—Copyrighted.

The W. H. Anderson Co., Law Book Publishers, Cincinnati, O.

JUN 30-36 60277 —DdsMat 12

Know all men by these presents:

That

JACOB NOIMAN and

LIBA NOIMAN, husband and wife

in consideration of

One Dollar ($1.00) and other Good and Valuable Considerations

to him *paid by* LOUIS STEINBERG

the receipt whereof is hereby acknowledged, do as *hereby Grant, Bargain, Sell and Convey to the said*

LOUIS STEINBERG

His *heirs and assigns forever:*

The following described real-estate, to-wit:

Situated, lying and being in the City of Cincinnati, Hamilton County, Ohio, and described as follows: Being part of Lot Number One (1) on plat of survey of The Herman Lackman Brewing Company, recorded in Plat Book 14, page 78, in the County Recorder's Office, and more particularly described as follows:

Beginning at the southwest corner of Sixth and Stone Streets; thence southwestwardly along the westerly line of Stone Street ninety-two and seventy-five one-hundredths (92.75) feet to a point in the westerly line of Stone Street where the same is intersected by a line twelve and twenty-five one-hundredths (12.25) feet north of and parallel with the north line of the Boiler and Kilns house shown on said plat; thence west on said line twelve and twenty-five one-hundredths (12.25) feet north and parallel with the north line of said Boiler and Kilns house and along the north line of the Pump house thirty-two and eighty-one one-hundredths (32.81) feet to the northwest corner of the Pump House shown on said plat; thence south at right angles to said last mentioned line twelve and twenty-five one-hundredths (12.25) feet to the north line of said Boiler and Kilns house thirty-nine and seventeen one-hundredths (39.17) feet to the east line of the Malt house shown on said plat; thence north along the east line of said Malt house one [redacted] hundred and one and ninety-three one-hundredths (101.93) feet to the south line of Sixth Street; thence east along the south line of Sixth Street ninety-seven and eighty-eight one-hundredths (97.88) feet to the southwest corner of Sixth and Stone Streets and place of beginning.

Known as the southwest corner of Sixth and Stone Streets, Cincinnati, Hamilton County, Ohio.

And being the same premises conveyed to The Central Trust Company by deed recorded in deed book 1706, page 434 of said County records; and by said The Central Trust Company, conveyed to the Grantors herein by deed of even date herewith.

and all the Estate, Title and Interest of the said
parties of the first part, JACOB NOIMAN and
LIBA NOIMAN
either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof, To have and to hold the same to the only proper use of the said

LOUIS STEINBERG

His heirs and assigns forever.

And the said

JACOB NOIMAN and
LIBA NOIMAN

for themselves and their heirs, executors and administrators, do hereby Covenant with the said

LOUIS STEINBERG

HIS heirs and assigns, that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever.

Except a mortgage to THE CENTRAL TRUST CO. Which Grantee herein assumes and agrees to pay

In Witness Whereof, The said

JACOB NOIMAN and LIBA NOIMAN, his wife

who hereby release all their right and expectancy of Dower in the said premises, have hereunto set Their hands this 22nd day of JUNE in the year of our Lord one thousand nine hundred THIRTY SIX

Signed and acknowledged in presence of—

Louis Weisand
Fredrick D. Berger

Liba Noiman
Jacob Noiman

State of OHIO, County of HAMILTON, SS.

Be it Remembered, That on this 22nd day of JUNE in the year of our Lord one thousand nine hundred Thirty Six before me, the subscriber, a Notary Public in and for said county, personally came

JACOB NOIMAN AND LIBA NOIMAN, his wife

the grantor s in the foregoing Deed, and acknowledged the signing thereof to be Their voluntary act and deed.

In Testimony Whereof, I have hereunto subscribed my name and affixed my notarial seal on the day and year last aforesaid.

REC. FOR RECORD Deed No. 40 AT 2:37 P.M.
LEO. H BECKMAN RECORDER. HAMILTON COUNTY. O

Bk 1730 p600

Gen. Ind. 7th Ser Bk. 79 P 148

WARRANTY DEED
With Dower—Copyrighted.

The W. H. Anderson Co., Law Book Publishers, Cincinnati, O.

DEC-1[illegible] —Pds— 1.2

Know all men by these presents:

That LOUIS STEINBERG, an unmarried man

in consideration of $1.00 and other good and valuable considerations

to him *paid by* [illegible]

the receipt whereof is hereby acknowledged, do es *hereby* **Grant, Bargain, Sell and Convey** *to the said*

[illegible]

[illegible] *heirs and assigns forever:*

The following described real estate, to wit:

Situated, lying and being in the City of Cincinnati, Hamilton County, Ohio, and described as follows: Being part of Lot Number One (1) on plat of survey of The Herman Lackman Brewing Company, recorded in Plat Book 14, page 78, in the County Recorder's Office, and more particularly described as follows:

Beginning at the southwest corner of Sixth and Stone Streets; thence southwestwardly along the westerly line of Stone Street ninety-two and seventy-five one-hundredths (92.75) feet to a point in the westerly line of Stone Street where the same is intersected by a line twelve and twenty-five one-hundredths (12.25) feet north of and parallel with the north line of the Boiler and Kilns house shown on said plat; thence west on said line Twelve and twenty-five one-hundredths (12.25) feet north and parallel with the north line of said Boiler and Kilns house and along the north line of the Pump house thirty-two and eighty-one one-hundredths (32.81) feet to the northwest corner of the Pump house shown on said plat; thence south at right angles to said last mentioned line twelve and twenty-five one-hundredths (12.25) feet to the north line of the Boiler and Kilns house; thence west along the north line of said Boiler and Kilns house thirty-nine and seventeen one-hundredths (39/17) feet to the east line of the Malt

house shown on said plat; thence north along the east line of said Malt house one hundred and one and ninety-three one-hundredths (101.93) feet to the south line of Sixth Street; thence east along the south line of Sixth Street ninety-seven and eighty-eight one-hundredths feet to the southwest corner of Sixth and Stone Streets and place of beginning, and being the same premises conveyed to Jacob Noiman and Liba Noiman by deed recorded in Deed Book 1715 Page 127 of said County records; and conveyed by said Jacob Noiman and Liba Noiman to Louis Steinberg by deed recorded in Deed Book 1715 Page 647 of said County Records.

and all the **Estate, Title and Interest** *of the said*

LOUIS STEINBERG

either in Law or Equity, of, in and to the said premises; **Together** *with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof;* **To have and to hold** *the same to the only proper use of the said*

THE FEDERAL BREWING COMPANY,

its successors *heirs and assigns forever.*

And the said

LOUIS STEINBERG

for himself *and* his *heirs, executors and administrators, do as hereby* **Covenant** *with the said*

THE FEDERAL BREWING COMPANY,

its successors ~~heirs and assigns,~~ *that* he is *the true and lawful owner of the said premises, and has full power to convey the same; and that the title so conveyed is* **Clear, Free and Unincumbered; And further,** *That* he does **Warrant and Will Defend** *the same against all claim or claims, of all persons whomsoever.*

Except taxes due and payable in_____and thereafter, which grantee is to pay.

In Witness Whereof. *The said* LOUIS STEINBERG,(an unmarried man)

~~who hereby waives and releases all~~ *right and expectancy of Dower in the said premises.* *has hereunto set* his *hand* 28th *this day of* November *in the year of our Lord one thousand nine hundred* thirty-six (1936).

Signed and acknowledged in presence of

Louis Steinberg

Ruth Peters

Louis Steinberg

State of OHIO **. County of** HAMILTON **, ss.**

Appendix H

City Directory Records Summary

City Directory Summary
Former Hudepohl Plant, Cincinnati, OH

Year	Property							
	West Sixth Street						Gest Street	Carlisle Ave.
	801	803-807	809-817	819	821	823-825	505	820
1923	R	R						
1927-28	R	R	Niser Ice Cream Co.		vacant			malted milk manufacturer
1930-31	R	R	Fay & Egan Co. warehouse (809); Niser Ice Cream Co.					Willson Dairy Products
1935	R	R	Niser Ice Cream Co.					
1940	R	R		Hudepohl Brewing Co. plant				
1944	vacant			Hudepohl Brewing Co. plant				
1949	Hudepohl Brewing Co. plant							
1953-54	Hudepohl Brewing Co. plant							
1958	Hudepohl Brewing Co. plant							
1962	Hudepohl Brewing Co. plant							
1967							Hudepohl Brewing Co.	
1972							Hudepohl Brewing Co.	
1977							Hudepohl Brewing Co.	
1982							Hudepohl Brewing Co.	
1987							Hudepohl Brewing Co.	
1991							vacant	
1996								
2000								
2005								

R = residential

City Directory Summary
Former Hudepohl Plant, Cincinnati, OH

Year	East Area								
	West Sixth Street		Carlisle Avenue		Stone St.	Gest Street	Gest Street		
	737-741	751	764	766	514-522	505	551	555	557
1923	Cin'ti Railroad Omnibus Co. stables	Kohn Bros rags							
1927-28	Cin'ti Railroad Omnibus Co. stables	Kohn Bros junk	garage	grocery					
1930-31	Cin'ti Railroad Omnibus Co. stables	Kohn Bros junk		grocery					
1935	Cincinnati Barrel & Cooperage Co.	Kohn Bros junk		grocery					
1940	Cinti Transfer Co.; Western Express Co.; Finnell System Inc. machy; Mercury Motor Ways; Pratt Freight Lines	Kohn Bros junk		grocery	R				
1944	Cinti Transfer Co.; Western Express Co.; Mercury Motor Ways; Allied Motor Express	Kohn Bros junk		grocery	R				
1949	Cincinnati Transfer Co.; Jack Cole Co. transfer	Kohn Bros junk		grocery	R				
1953-54	Flach Bros Gro Co. whsle	Kohn Bros junk		grocery	R				
1958	Zeropack Co. frozen fruits; RA Rasche Co. food brokers; Recess Co. grocers; Oswald & Taube co. bakers supplies	Kohn Bros junk		grocery	R				
1962	Zeropack Co. frozen fruits; RA Rasche Co. food brokers; Oswald & Taube co. bakers supplies	Kohn Bros junk			R				
1967						Hudepohl Brewing Co.	Cinti Cash & Carry Whsle Groceries	Central Service Inc. household appliances	Frigidaire Sales Corp.
1972						Hudepohl Brewing Co.	Cinti Cash & Carry Whsle Groceries	Central Service Inc. household appliances	Frigidaire Sales Corp.
1977						Hudepohl Brewing Co.	Cinti Cash & Carry Whsle Groceries	Central Service Inc. household appliances	
1982						Hudepohl Brewing Co.	Cinti Cash & Carry Whsle Groceries	Central Service Inc. household appliances	
1987						Hudepohl Brewing Co.	Cinti Cash & Carry Whsle Groceries	Central Service Inc. household appliances	
1991	Cincinnati Belting & Transmission					vacant	Gries Bros Inc. distributors	Central Service Inc. household appliances	
1996	Cincinnati Belting & Transmission								
2000	Cincinnati Belting & Transmission								
2005	Cincinnati Belting & Transmission								

R = residential

City Directory Summary
Former Hudepohl Plant, Cincinnati, OH

Year	Northeast Area		North Area					Northwest Area	
	West Sixth Street		West Sixth Street					West Sixth Street	
	746	748	802	804	812	814	818	828	830
1923	R				R	R	lumber	Watkins Motor Co.	
1927-28	R			Rex Baking Co.	R	R	lumber	Watkins Motor Co.	
1930-31	R			Rex Baking Co.	vacant	R	lumber	Watkins Motor Co.	
1935	R			bakery	R	Bloomer Bros Sales Corp. paper; Hobson Supply Co. dairy supplies	lumber		Watkins Motor Co.
1940	R	church	Best Foods Inc.	Dixie Ohio Express Co.	R	Hobson Supply Co. dairy supplies	lumber		Watkins Motor Co. laundry machinery; Tempersol Distributing heating appliances
1944	R	church	vacant		R	Hobson Supply Co. dairy supplies	lumber		Watkins Engineering & Mfg Co. screw machine products
1949	R				R	R	vacant	Watkins Engineering Co. screw machine products plant	
1953-54	R	R	Hudepohl Brewing Co.		Hudepohl Brewing Co. parking lot			Watkins Engineering Co. screw machine products plant	
1958	R	R			Hudepohl Brewing Co. parking lot			Watkins Mfg Co. screw machine products	
1962			Hudepohl Brewing Co.		Hudepohl Brewing Co. parking lot			Watkins Mfg Co. screw machine products, Screw	
1967									
1972									
1977									
1982									
1987									
1991									
1996									
2000									
2005									

R = residential

City Directory Summary
Former Hudepohl Plant, Cincinnati, OH

Year	West Area									
	West Sixth Street						Baymiller	Carlisle Avenue		
	827-829	831	833	835	839	sec	518	822-836	838-842	northeast corner
1923	R	R	Aragon Sales Co. whsle confectioners	vacant	Artisan Mfg. Co. belt shifting machines	Henry Disston's Sons Co. tools; Auto Sun Products Co.				
1927-28	R	R	Aragon Sales Co. whsle confectioners		vacant	Henry Disston's Sons Co. tools		R	R	Kruse Hardware Co.; teamster
1930-31	R	R	Aragon Sales Co. whsle confectioners	vacant		Henry Disston's Sons Co. tools; Auto Sun Products Co.		R	R	Kruse Hardware Co.; teamster
1935	R	R	Aragon Sales Co. whsle confectioners	vacant		vacant		R	R	Kruse Hardware Co.; teamster
1940	R	R	Aragon Sales Co. whsle confectioners	Bertke Electric Co.		vacant	Kruse Hardware Co.	R	R	
1944				Bertke Electric Co.		Kruse Hardware Co. whsle			R	
1949				Bertke Electric Co.		Kruse Hardware Co.				
1953-54				Bertke Electric Co.		Kruse Hardware Co.				
1958		Hudepohl Brewing Co. bottle dept		Hudepohl Brewing Co. storage		Kruse Hardware Co.				
1962				Hudepohl Brewing Co. storage		Kruse Hardware Co.				
1967						Kruse Hardware Co.				
1972						Kruse Hardware Co.				
1977						Kruse Hardware Co.				
1982						Kruse Hardware Co.whsle hardware				
1987						Kruse Hardware Co.whsle hardware				
1991						vacant				
1996										
2000										
2005										

R = residential

City Directory Summary
Former Hudepohl Plant, Cincinnati, OH

Year	Southeast Area		South Area				South & Southwest Area	
	Carlisle Avenue		Hudepohl Street	W 5th St			Carlisle Avenue	
	765	767	800	800	810	828	801	803-865
1923								
1927-28	R	R					restaurant	R
1930-31	R	R					R	R
1935	R	R					R	R
1940	R	R					R	R
1944	R						R	R
1949	R				Grand-Pop Bottling Co. soft drink mfr; Pepsi-Cola Bottling Co.		R	R
1953-54	R				Grand-Pop Bottling Co. soft drink mfr; Pepsi-Cola Bottling Co.		R	R
1958	R				Grand-Pop Bottling Co.		R	R
1962					Yuba Power Products - warehouse	Weitkamp & Robinson Inc. - roofers	vacant	vacant / R
1967								
1972								
1977								
1982								
1987								
1991			Hudepohl-Schoenling sales & marketing dept.					
1996				Ohio Valley Beer Co.				
2000				Ohio Valley Beer Co.; 5th Street Cigar Co.				
2005				Ohio Valley Beer Co.				

R = residential

Appendix I

Environmental Database Report

Former Hudepohl Site
801 West Sixth Street
Cincinnati, OH 45203

Inquiry Number: 2575940.2s
August 27, 2009

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	140
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-10

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2009 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

801 WEST SIXTH STREET
CINCINNATI, OH 45203

COORDINATES

Latitude (North):	39.100000 - 39° 6' 0.0"
Longitude (West):	84.528200 - 84° 31' 41.5"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	713755.1
UTM Y (Meters):	4330574.5
Elevation:	522 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	39084-A5 COVINGTON, KY
Most Recent Revision:	1987

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2005, 2006
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

State- and tribal - equivalent CERCLIS

OH SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
KY SHWS..... State Leads List

State and tribal landfill and/or solid waste disposal site lists

KY SWF/LF..... Solid Waste Facilities List

State and tribal leaking storage tank lists

KY SB193..... SB193 Branch Site Inventory List
KY PSTEAF..... Facility Ranking List
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

KY UST..... Underground Storage Tank Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

KY ENG CONTROLS..... Engineering Controls Site Listing
KY INST CONTROL..... State Superfund Database
OH HIST INST CONTROLS.. Institutional Controls Database
OH HIST ENG CONTROLS... Operation & Maintenance Agreements Database

State and tribal voluntary cleanup sites

KY VCP..... Voluntary Cleanup Program Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

OH BROWNFIELDS..... Ohio Brownfield Inventory

KY BROWNFIELDS..... Kentucky Brownfield Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
OH HIST LF..... Old Solid Waste Landfill
KY HIST LF..... Historical Landfills

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
OH CDL..... Clandestine Drug Lab Locations
KY CDL..... Clandestine Drub Lab Location Listing
HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

OH ARCHIVE UST..... Archived Underground Storage Tank Sites

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database

RAATS..... RCRA Administrative Action Tracking System
OH TOWNGAS..... DERR Towngas Database
OH UIC..... Underground Injection Wells Listing
OH DRYCLEANERS..... Drycleaner Facility Listing
KY DRYCLEANERS..... Drycleaner Listing
OH NPDES..... NPDES General Permit List
KY NPDES..... Permitted Facility Listing
OH AIRS..... Title V Permits Listing
KY AIRS..... Permitted Airs Facility Listing
OH USD..... Urban Setting Designation Sites
OH HIST USD..... Urban Setting Designations Database
KY LEAD..... Environmental Lead Program Report Tracking Database
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER..... PCB Transformer Registration Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations.. EDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 01/09/2009 has revealed that there is 1

CERCLIS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
750 WEST THIRD STREET SITE	750 WEST THIRD STREET	SSE 1/8 - 1/4 (0.164 mi.)	27	39

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/03/2007 has revealed that there are 3 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ANCHOR WHITE LEAD COMPANY	FREEMAN & 7TH STREET	NW 1/4 - 1/2 (0.300 mi.)	84	77
MAGNUS COMPANY INCORPORATED	***1029 WEST 7TH STREET***	***NW 1/4 - 1/2 (0.328 mi.)***	***86***	***78***
DUBOIS CHEMICAL (FRONT ST. PLT	1120 W FRONT ST	W 1/4 - 1/2 (0.385 mi.)	105	101

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-LQG site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PROPOSED QUEENSGATE SOUTH	990 W 5TH ST	WSW 1/8 - 1/4 (0.229 mi.)	H55	53

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 11/12/2008 has revealed that there are 8 RCRA-SQG sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVICE	***500 GEST STREET***	***ESE 0 - 1/8 (0.084 mi.)***	***C11***	***15***
CINERGY CORP QUEENSGATE BLDG	***424 GEST ST***	***SE 0 - 1/8 (0.105 mi.)***	***17***	***23***

Lower Elevation	Address	Direction / Distance	Map ID	Page
*CHEVRON STATION 123495 **	*811 W 8TH AND LINN*	*NNW 1/8 - 1/4 (0.208 mi.)*	*34*	*42*
FULLER FORD	*900 W 8TH ST*	*NNW 1/8 - 1/4 (0.241 mi.)*	*I64*	*60*
CINCINNATI CITY OF HEALTH DEPT	*1020 SARGENT ST*	*W 1/4 - 1/2 (0.266 mi.)*	*71*	*66*
WALT SWEENEY DOWNTOWN PONTIAC	*950 W 8TH ST*	*NNW 1/4 - 1/2 (0.272 mi.)*	*K73*	*69*
FOXMEYER DRUG CO	*925 FREEMAN AVE*	*NNW 1/4 - 1/2 (0.420 mi.)*	*W118*	*114*
KEY TRUCK SALES	*1001 GEST ST*	*NNW 1/4 - 1/2 (0.486 mi.)*	*AD140*	*131*

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 11/12/2008 has revealed that there are 10 RCRA-CESQG sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INTERSTATE BRANDS CORPORATION	*747 W FIFTH ST*	*ENE 1/8 - 1/4 (0.151 mi.)*	*E26*	*36*

Lower Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL UNDERWRITER CO	*505 GEST ST*	*E 0 - 1/8 (0.083 mi.)*	*C7*	*11*
SUNOCO SERVICE STATION	*901 W EIGHTH ST*	*NNW 1/8 - 1/4 (0.249 mi.)*	*65*	*62*
HERITAGE ENVIRONMENTAL	*824 MEHRING WAY*	*SSE 1/4 - 1/2 (0.282 mi.)*	*L81*	*74*
INSPECTORATE AMERICA CORP	*513 CARR ST*	*W 1/4 - 1/2 (0.338 mi.)*	*O91*	*84*
COLLISION CARE OF CINCINNATI L	*701 DALTON AVE*	*WNW 1/4 - 1/2 (0.346 mi.)*	*P94*	*90*
T.K.F. INC	*726 MEHRING WAY*	*SSE 1/4 - 1/2 (0.374 mi.)*	*R99*	*95*
HORIZON ENVIRONMENTAL GROUP	*700 W PETE ROSE WAY*	*SE 1/4 - 1/2 (0.391 mi.)*	*U111*	*106*
GOODMAN IB MFG CO INC	*314 JOHN ST*	*ESE 1/4 - 1/2 (0.409 mi.)*	*117*	*112*
QUALEX INC	933 MEADOW GOLD LN	NW 1/4 - 1/2 (0.450 mi.)	131	125

Federal ERNS list

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2008 has revealed that there are 22 ERNS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
640 RICHMOND STREET	640 RICHMOND STREET	NNE 1/4 - 1/2 (0.337 mi.)	N90	83

Lower Elevation	Address	Direction / Distance	Map ID	Page
500 GEST ST.	500 GEST ST.	ESE 0 - 1/8 (0.085 mi.)	C15	22
311 MAYMILLER ST. DEUTCH AND S	311 MAYMILLER ST. DEUTC	SSW 1/8 - 1/4 (0.193 mi.)	G31	42
895 WEST MEHRING WAY	895 WEST MEHRING WAY	SSW 1/8 - 1/4 (0.211 mi.)	G35	47
895 MEHRING WAY	895 MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G36	47
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G38	48
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G39	48

Lower Elevation	Address	Direction / Distance	Map ID	Page
895 WEST MEHRING WAY	895 WEST MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G40	48
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G41	48
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G42	49
895 WEST MEHRING WAY	895 WEST MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G43	49
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G44	49
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G46	50
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G48	50
895 WEST MEHRING WAY	895 WEST MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G50	51
895 W. MEHRING WAY	895 W. MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G54	53
895 W. MEHRING WAY IRON ORE TE	895 W. MEHRING WAY IRON	WSW 1/8 - 1/4 (0.232 mi.)	H58	56
895 W. MEHRING WAY OHIO RIVER	895 W. MEHRING WAY OHIO	WSW 1/8 - 1/4 (0.232 mi.)	H59	57
895 W. MEHRING WAY MM 472 //OH	895 W. MEHRING WAY MM 4	WSW 1/8 - 1/4 (0.232 mi.)	H60	57
1 QUEENSGATE	1 QUEENSGATE	WNW 1/8 - 1/4 (0.250 mi.)	J66	64
824 MEHRING WAY	824 MEHRING WAY	SSE 1/4 - 1/2 (0.282 mi.)	L80	74
824 MEHRING WAY	824 MEHRING WAY	SSE 1/4 - 1/2 (0.282 mi.)	L82	76

State- and tribal - equivalent CERCLIS

OH DERR: The DERR database is an index of sites for which Ohio EPA maintains files. It includes sites with known or suspected contamination, but a site's inclusion in the database does not mean that it is now or has ever been contaminated.

A review of the OH DERR list, as provided by EDR, and dated 06/08/2009 has revealed that there is 1 OH DERR site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAGNUS COMPANY INCORPORATED Activity: VAP	***1029 WEST 7TH STREET***	***NW 1/4 - 1/2 (0.328 mi.)***	***86***	***78***

State and tribal landfill and/or solid waste disposal site lists

OH SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Ohio Environmental Protection Agency's Licensed Solid Waste Facilities.

A review of the OH SWF/LF list, as provided by EDR, and dated 08/04/2009 has revealed that there is 1 OH SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RUMPKE MEDICAL WASTE THERM-TEC	1020 MEHRING WAY	WSW 1/4 - 1/2 (0.280 mi.)	76	71

State and tribal leaking storage tank lists

OH LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Commerce Division of State Fire Marshal's List of Reported Petroleum Underground Storage Tank Release Incidents.

A review of the OH LUST list, as provided by EDR, and dated 06/09/2009 has revealed that there are 30

EXECUTIVE SUMMARY

OH LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITYRAMA II	MOUND ST AT 9TH ST	NE 1/4 - 1/2 (0.314 mi.)	85	78
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
FORMER STANDARD OIL	906 MOUND ST	NE 1/4 - 1/2 (0.329 mi.)	M87	80
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
INTERSTATE BRANDS CORP.	***640 RICHMOND ST***	***NNE 1/4 - 1/2 (0.337 mi.)***	***N89***	***81***
FR Status: Inactive FR Status: NFA: No Further Action				
FR Status: Inactive FR Status: NFA: No Further Action				
**Additional key fields are available in the Map Findings section*				
Facility Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
**Additional key fields are available in the Map Findings section*				
CITY OF CINCINNATI	400 JOHN ST	E 1/4 - 1/2 (0.386 mi.)	T106	102
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
SANITATION	351 JOHN ST	E 1/4 - 1/2 (0.388 mi.)	T108	103
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
ADP, INC.	500 W 7TH ST	ENE 1/4 - 1/2 (0.395 mi.)	V113	109
FR Status: Inactive FR Status: NFA: No Further Action				
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
WCPO-TV	500 CENTRAL AVE	E 1/4 - 1/2 (0.443 mi.)	Z128	124
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
BETTS-LONGWORTH SITE	1009 JOHN ST	NE 1/4 - 1/2 (0.479 mi.)	AC136	129
FR Status: Active FR Status: NRC: No response to NCR letter sent				
Facility Status: Active FR Status: NRC: No response to NCR letter sent				

Lower Elevation	Address	Direction / Distance	Map ID	Page
HEIDEPOHL BREWERY	800 HEIDEPOHL DR	S 0 - 1/8 (0.057 mi.)	1	7
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
KRUSE HARDWARE	518 LYNN ST	WSW 0 - 1/8 (0.070 mi.)	A2	7
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
INTERSTATE BRANDS CORP.	***747 WEST 5TH ST***	***ESE 0 - 1/8 (0.084 mi.)***	***C10***	***13***
FR Status: Active FR Status: NFA: No Further Action				
Facility Status: Active FR Status: NFA: No Further Action				
UNITED PARCEL SERVICE	***500 GEST STREET***	***ESE 0 - 1/8 (0.084 mi.)***	***C11***	***15***
FR Status: Inactive FR Status: NFA: No Further Action				
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
CINERGY CORP QUEENSGATE BLDG	***424 GEST ST***	***SE 0 - 1/8 (0.105 mi.)***	***17***	***23***
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
I. DEUTCH & SONS, INC. FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	311 BAYMILLER ST	SSW 1/8 - 1/4 (0.128 mi.)	D21	33
CINCINNATI METRO SEWER DISTRIC FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	MEHRING WAY	SSW 1/8 - 1/4 (0.207 mi.)	G33	42
CHEVRON STATION 123495 * FR Status: Inactive FR Status: NFA: No Further Action FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	***811 W 8TH AND LINN***	***NNW 1/8 - 1/4 (0.208 mi.)***	***34***	***42***
MOSE COHEN & SONS, INC. FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	990 W 5TH ST	WSW 1/8 - 1/4 (0.229 mi.)	H57	56
SUNOCO #0043-9208 FR Status: Active FR Status: TR2: Tier 2 FR Status: Active FR Status: DIS: a release is disproved Facility Status: Active FR Status: TR2: Tier 2 Facility Status: Active FR Status: DIS: a release is disproved	***901 W 8TH ST***	***NNW 1/8 - 1/4 (0.233 mi.)***	***I61***	***57***
FORMER VICTORIA STATION FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	939 W 8TH ST	NNW 1/4 - 1/2 (0.256 mi.)	K69	65
DESMOND PONTIAC FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	950 W 8TH	NNW 1/4 - 1/2 (0.272 mi.)	K74	71
UNITED PARCEL SERVICE FR Status: Inactive FR Status: NFA: No Further Action FR Status: Inactive FR Status: NFA: No Further Action **Additional key fields are available in the Map Findings section* Facility Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action **Additional key fields are available in the Map Findings section*	640 W 3RD ST	ESE 1/4 - 1/2 (0.296 mi.)	83	76
OHIO RIVER CO FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	725 MEHRING WAY	SSE 1/4 - 1/2 (0.375 mi.)	R100	97
THIRD STREET ENTERPRISES INC. FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	514 W 3RD ST	ESE 1/4 - 1/2 (0.381 mi.)	S102	98
FOX MEYER CORP. FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	925 FREEMAN AVE	NNW 1/4 - 1/2 (0.420 mi.)	W120	117
CSX TRANSPORTATION FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	BUDD / DALTON	WNW 1/4 - 1/2 (0.431 mi.)	X121	117
CST MGMT CO. FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	1150 W 8TH ST	NW 1/4 - 1/2 (0.435 mi.)	Y122	117
DAYTON HYDRAULIC CO. FR Status: Inactive FR Status: NFA: No Further Action Facility Status: Inactive FR Status: NFA: No Further Action	444 W3RD ST	ESE 1/4 - 1/2 (0.479 mi.)	AB138	131

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CINCINNATI PUBLIC WORKS	302-304 CENTRAL AVE	ESE 1/4 - 1/2 (0.480 mi.)	139	131
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
OFFENBERGER SERV STA	1000 GEST ST	NNW 1/4 - 1/2 (0.496 mi.)	AD143	135
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				
DELHI WELDING (RICHTER REALTY)	1223 BUDD ST	WNW 1/4 - 1/2 (0.497 mi.)	AE145	136
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				

OH UNREG LTANKS: A suspected or confirmed release of petroleum from a non-regulated UST.

A review of the OH UNREG LTANKS list, as provided by EDR, and dated 08/25/1999 has revealed that there is 1 OH UNREG LTANKS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BUTTERNUT BREAD	747 W 5TH ST/747 HUDEPH	SW 0 - 1/8 (0.073 mi.)	A4	8
Facility Status: RPT				

State and tribal registered storage tank lists

OH UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Commerce Division of State Fire Marshal's Facility File.

A review of the OH UST list, as provided by EDR, and dated 06/01/2009 has revealed that there are 29 OH UST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER STANDARD OIL	906 MOUND ST	NE 1/4 - 1/2 (0.329 mi.)	M88	80
INTERSTATE BRANDS CORP.	***640 RICHMOND ST***	***NNE 1/4 - 1/2 (0.337 mi.)***	***N89***	***81***
CITY OF CINCINNATI	400 JOHN ST	E 1/4 - 1/2 (0.386 mi.)	T107	102
SANITATION	351 JOHN ST	E 1/4 - 1/2 (0.388 mi.)	T109	104
ADP, INC.	500 W 7TH ST	ENE 1/4 - 1/2 (0.395 mi.)	V114	109
WCPO-TV	500 CENTRAL AVE	E 1/4 - 1/2 (0.443 mi.)	Z127	123
BETTS-LONGWORTH SITE	1009 JOHN ST	NE 1/4 - 1/2 (0.479 mi.)	AC137	130
THREE CENTENNIAL	895 CENTRAL AVE	NE 1/4 - 1/2 (0.486 mi.)	142	134

Lower Elevation	Address	Direction / Distance	Map ID	Page
KRUSE HARDWARE	518 LYNN ST	WSW 0 - 1/8 (0.070 mi.)	A3	7
INTERSTATE BRANDS CORP.	***747 WEST 5TH ST***	***ESE 0 - 1/8 (0.084 mi.)***	***C10***	***13***
UNITED PARCEL SERVICE	***500 GEST STREET***	***ESE 0 - 1/8 (0.084 mi.)***	***C11***	***15***
QUEENGATE FOODSERVICE	619 LINN ST	WNW 0 - 1/8 (0.084 mi.)	B14	21
CINERGY CORP QUEENSGATE BLDG	***424 GEST ST***	***SE 0 - 1/8 (0.105 mi.)***	***17***	***23***
I. DEUTCH & SONS, INC.	311 BAYMILLER ST	SSW 1/8 - 1/4 (0.128 mi.)	D20	32
CHEVRON STATION 123495 *	***811 W 8TH AND LINN***	***NNW 1/8 - 1/4 (0.208 mi.)***	***34***	***42***
CINCINNATI BULK TERMINALS	895 W MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G51	51
MOSE COHEN & SONS, INC.	990 W 5TH ST	WSW 1/8 - 1/4 (0.229 mi.)	H56	55
SUNOCO #0043-9208	***901 W 8TH ST***	***NNW 1/8 - 1/4 (0.233 mi.)***	***I61***	***57***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER VICTORIA STATION	939 W 8TH ST	NNW 1/4 - 1/2 (0.256 mi.)	K70	65
DESMOND PONTIAC	950 W 8TH	NNW 1/4 - 1/2 (0.272 mi.)	K72	68
OHIO RIVER CO	725 MEHRING WAY	SSE 1/4 - 1/2 (0.375 mi.)	R101	97
THIRD STREET ENTERPRISES INC.	514 W 3RD ST	ESE 1/4 - 1/2 (0.381 mi.)	S103	98
ARTEMUS REGIONAL TRANSPORT	512 W 3RD	ESE 1/4 - 1/2 (0.384 mi.)	S104	101
FOX MEYER CORP.	925 FREEMAN AVE	NNW 1/4 - 1/2 (0.420 mi.)	W119	116
CST MGMT CO.	1150 W 8TH ST	NW 1/4 - 1/2 (0.435 mi.)	Y123	118
DALTON MARATHON LLC	700 DALTON AVE	WNW 1/4 - 1/2 (0.440 mi.)	X124	119
KEY GMC TRUCK SALES	1001 GEST ST	NNW 1/4 - 1/2 (0.486 mi.)	AD141	133
OFFENBERGER SERV STA	1000 GEST ST	NNW 1/4 - 1/2 (0.496 mi.)	AD144	135
DELHI WELDING (RICHTER REALTY)	1223 BUDD ST	WNW 1/4 - 1/2 (0.497 mi.)	AE146	136

State and tribal institutional control / engineering control registries

OH ENG CONTROLS: Sites with Engineering Controls.

A review of the OH ENG CONTROLS list, as provided by EDR, and dated 06/01/2009 has revealed that there is 1 OH ENG CONTROLS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAGNUS COMPANY INCORPORATED	***1029 WEST 7TH STREET***	***NW 1/4 - 1/2 (0.328 mi.)***	***86***	***78***

OH INST CONTROL: Sites with Engineering and/or Institutional controls.

A review of the OH INST CONTROL list, as provided by EDR, and dated 06/01/2009 has revealed that there is 1 OH INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAGNUS COMPANY INCORPORATED	***1029 WEST 7TH STREET***	***NW 1/4 - 1/2 (0.328 mi.)***	***86***	***78***

State and tribal voluntary cleanup sites

OH VCP: Ohio EPA, Voluntary Action Program Sites.

A review of the OH VCP list, as provided by EDR, and dated 06/01/2009 has revealed that there is 1 OH VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAGNUS COMPANY INCORPORATED	***1029 WEST 7TH STREET***	***NW 1/4 - 1/2 (0.328 mi.)***	***86***	***78***

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

OH SPILLS: The Spills Database comes from the Ohio EPA.

A review of the OH SPILLS list, as provided by EDR, and dated 06/01/2009 has revealed that there are 32 OH SPILLS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BUTTERNUT BREAD CO	747 W FIFTH ST	ENE 1/8 - 1/4 (0.151 mi.)	E25	36
CENTRAL INSULATION SYSTEMS	628 CENTRAL PKWY	ENE 1/4 - 1/2 (0.445 mi.)	129	124

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNK	LINN / 5TH	SW 0 - 1/8 (0.075 mi.)	A5	9
INTERSTATE BRANDS	747 W 5TH ST	ESE 0 - 1/8 (0.084 mi.)	C8	12
UPS	500 GEST ST	ESE 0 - 1/8 (0.084 mi.)	C12	20
UPS	500 GEST ST.	ESE 0 - 1/8 (0.084 mi.)	C13	21
EDWARDS TRANSPORTATION	645 LINN	WNW 0 - 1/8 (0.086 mi.)	B16	23
I DEUTCH & SONS	925 WEST 5TH ST	WSW 0 - 1/8 (0.113 mi.)	18	31
DEUTCH & SON	311 BAY MILLER	SSW 1/8 - 1/4 (0.128 mi.)	D19	31
I DEUTCH AND SON INC	***311 BAY MILLER STREET***	***SSW 1/8 - 1/4 (0.128 mi.)***	***D22***	***33***
TERMANEX	350 GEST ST	SSE 1/8 - 1/4 (0.142 mi.)	24	36
UNK	W 3RD ST / GEST ST	SSE 1/8 - 1/4 (0.177 mi.)	F28	40
CG&E	GEST / THIRD ST	SSE 1/8 - 1/4 (0.184 mi.)	F30	41
MSD	160 GEST ST.	SSE 1/8 - 1/4 (0.206 mi.)	32	42
HATFIELD TERMINALS	895 W MEHRING WAY	SSW 1/8 - 1/4 (0.212 mi.)	G52	52
UNK	750 W THIRD ST (NEAR)	SE 1/8 - 1/4 (0.237 mi.)	62	59
MARTEN TRANSPORT PF	911 W 8TH ST	NNW 1/8 - 1/4 (0.237 mi.)	I63	59
KING WRECKING CO INC	1 QUEENSGATE WAY	WNW 1/8 - 1/4 (0.250 mi.)	J68	64
MSD	62 GUEST ST.	SSE 1/4 - 1/2 (0.274 mi.)	75	71
HERATIGE ENVIRONMENTAL	824 MEHRING WAY	SSE 1/4 - 1/2 (0.282 mi.)	L78	73
KUHR METALS CO *	***824 MEHRING WAY***	***SSE 1/4 - 1/2 (0.282 mi.)***	***L79***	***73***
MAACO AUTO PAINTING	701 DALTON, QUEENS GATE	WNW 1/4 - 1/2 (0.346 mi.)	P93	89
DP&L	CINCINNATI WATER WORKS	W 1/4 - 1/2 (0.355 mi.)	Q96	93
RUMPKE	RUMPKE TRUCK DEPOT	W 1/4 - 1/2 (0.355 mi.)	Q97	93
UNK	700 WEST PETE ROSE WAY	SE 1/4 - 1/2 (0.391 mi.)	U112	108
FOXMEYER	925 FREEMAN AVE. / GE	NNW 1/4 - 1/2 (0.407 mi.)	W116	112
MARATHON GAS STATION	700 DALTON STREET	WNW 1/4 - 1/2 (0.440 mi.)	X125	122
LINDSEY MOTOR EXPRESS	1200 MEHRING WAY	W 1/4 - 1/2 (0.442 mi.)	126	122
PITT OHIO EXPRESS	FREEMAN / GEST ST	NNW 1/4 - 1/2 (0.448 mi.)	130	124
VALLEY ASHPALT	612 W MEHRING WAY	SE 1/4 - 1/2 (0.461 mi.)	AA133	128
VALEY ASPHALT	610 AUGUSTA	SE 1/4 - 1/2 (0.469 mi.)	134	129
RUMPKE WASTE INC	205 CENTRAL AVE PARKING	ESE 1/4 - 1/2 (0.471 mi.)	AB135	129

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/12/2008 has revealed that there are 9 RCRA-NonGen sites within approximately 0.5 miles of the target property.

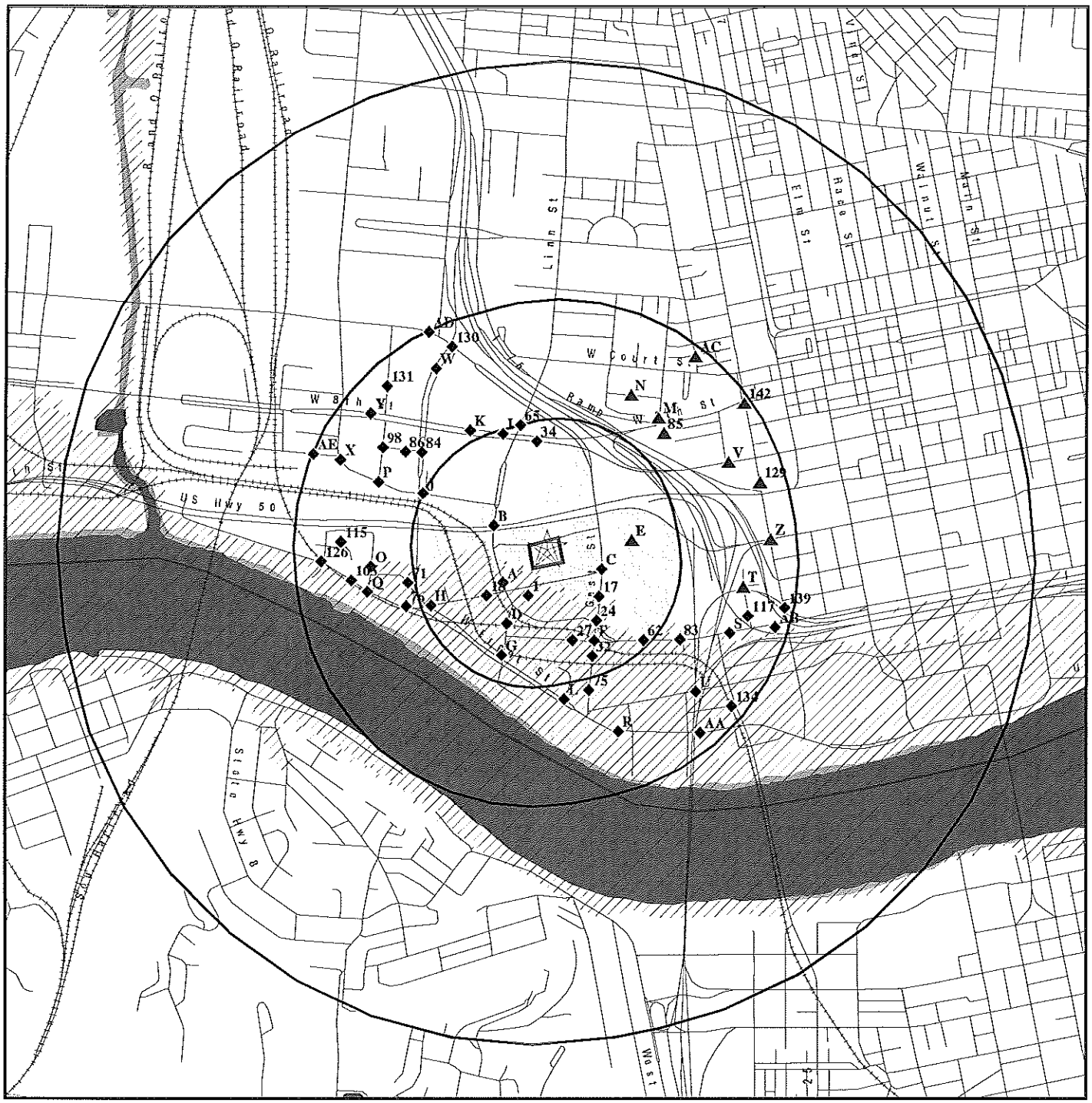
Lower Elevation	Address	Direction / Distance	Map ID	Page
KRUSE HARDWARE CO INC THE	*SIXTH & LINN STS*	*WNW 0 - 1/8 (0.077 mi.)*	*B6*	*9*
MAINLINE RECYCLING	311 BAYMILLER ST	SSW 1/8 - 1/4 (0.128 mi.)	D23	34
INTERMODAL TRANSPORTATION	*750 W THIRD*	*SSE 1/8 - 1/4 (0.180 mi.)*	*F29*	*40*
RUMPKE / BMW MED-TEC	*504 CARR ST*	*W 1/4 - 1/2 (0.343 mi.)*	*O92*	*86*
SKEFFINGTON FORMAL WEAR	*711 CARR ST*	*WNW 1/4 - 1/2 (0.372 mi.)*	*98*	*93*
APEX ENVIRONMENTAL RESOURCES	*700 W PETE ROSE WAY*	*SE 1/4 - 1/2 (0.391 mi.)*	*U110*	*105*
MOSE COHEN & SONS	*SIXTH & HARRIET*	*W 1/4 - 1/2 (0.400 mi.)*	*115*	*111*
VALLEY ASPHALT CORP PLANT 19	*612 W MEHRING WAY*	*SE 1/4 - 1/2 (0.461 mi.)*	*AA132*	*126*
CYLINDER PROCESSORS INC	*1223 BUDD ST*	*WNW 1/4 - 1/2 (0.497 mi.)*	*AE147*	*137*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
UNITED LEAD CO	OH DERR, CERC-NFRAP
B&O RAILROAD DUMP	OH HIST LF
CINCINNATI PUBLIC SHCOOLS	OH LUST, OH UST
PARKING LOT (ORPHAN)	OH LUST
SITE STORE #80	OH LUST
UNITED PARCEL SERVICE	OH UST
SPRINT POP	OH UST
FORMER BP 9022	OH UST
CINCINNATI METRO SEWER DISTRICT	OH UST
CINERGY FIELD	OH UST
PARKING LOT (ORPHAN)	OH UST
CITY OF CINCINNATI	OH UST
SITE STORE #80	OH UST
FORMER RIDGEWOOD FORGING PLANT	OH UST
LAZARUS WESTERN WOODS MALL	OH UST
ODOT HIGHWAY BRIDGE HAM-71-0000	RCRA-NonGen
ODOT HIGHWAY BRIDGE	FINDS, RCRA-NonGen
ODOT HIGHWAY BRIDGE	FINDS, RCRA-NonGen
ODOT HIGHWAY BRIDGE	FINDS, RCRA-NonGen
CINERGY FIELD	FINDS, RCRA-CESQG
SITE OF SPILL IS A CONSTRUCTION SI	ERNS
GE AVIATION GREEN SPACE	OH SPILLS, OH NPDES
ANCHOR WHITE LEAD CO, CINCINNATI -	OH DERR
QUEENSGATE SOUTH, CINCINNATI	OH DERR
QUEENSGATE SOUTH, CINCINNATI	OH VCP

OVERVIEW MAP - 2575940.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Former Hudepohl Site ADDRESS: 801 West Sixth Street Cincinnati OH 45203 LAT/LONG: 39.1000 / 84.5282	CLIENT: ATC Associates Inc. #72 CONTACT: Bill Norris INQUIRY #: 2575940.2s DATE: August 27, 2009 5:29 pm

Copyright © 2008 EDR, Inc. © 2008 Tele Atlas Rel. 07/2007.

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		0.500	0	0	0	NR	NR	0
Proposed NPL		0.500	0	0	0	NR	NR	0
NPL LIENS		0.500	0	0	0	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		0.500	0	0	0	NR	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	1	0	NR	NR	1
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	0	3	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS		0.500	0	0	0	NR	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.500	0	1	0	NR	NR	1
RCRA-SQG		0.500	2	2	4	NR	NR	8
RCRA-CESQG		0.500	1	2	7	NR	NR	10
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		0.500	1	18	3	NR	NR	22
State- and tribal - equivalent CERCLIS								
OH SHWS		N/A	N/A	N/A	N/A	N/A	N/A	N/A
KY SHWS		N/A	N/A	N/A	N/A	N/A	N/A	N/A
OH DERR		0.500	0	0	1	NR	NR	1
State and tribal landfill and/or solid waste disposal site lists								
OH SWF/LF		0.500	0	0	1	NR	NR	1
KY SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
OH LUST		0.500	5	5	20	NR	NR	30
OH UNREG LTANKS		0.500	1	0	0	NR	NR	1
KY SB193		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
KY PSTEAF		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
OH UST		0.500	5	5	19	NR	NR	29
KY UST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.500	0	0	0	NR	NR	0
State and tribal institutional control / engineering control registries								
OH ENG CONTROLS		0.500	0	0	1	NR	NR	1
KY ENG CONTROLS		0.500	0	0	0	NR	NR	0
OH INST CONTROL		0.500	0	0	1	NR	NR	1
KY INST CONTROL		0.500	0	0	0	NR	NR	0
OH HIST INST CONTROLS		0.500	0	0	0	NR	NR	0
OH HIST ENG CONTROLS		0.500	0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
OH VCP		0.500	0	0	1	NR	NR	1
KY VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
OH BROWNFIELDS		0.500	0	0	0	NR	NR	0
KY BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
OH HIST LF		0.500	0	0	0	NR	NR	0
KY HIST LF		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
OH CDL		TP	NR	NR	NR	NR	NR	0
KY CDL		TP	NR	NR	NR	NR	NR	0
HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
OH ARCHIVE UST		0.500	0	0	0	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
OH SPILLS		0.500	6	11	15	NR	NR	32
Other Ascertainable Records								
RCRA-NonGen		0.500	1	2	6	NR	NR	9
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		0.500	0	0	0	NR	NR	0
FUDS		0.500	0	0	0	NR	NR	0
CONSENT		0.500	0	0	0	NR	NR	0
ROD		0.500	0	0	0	NR	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
OH TOWNGAS		0.500	0	0	0	NR	NR	0
OH UIC		TP	NR	NR	NR	NR	NR	0
OH DRYCLEANERS		0.250	0	0	NR	NR	NR	0
KY DRYCLEANERS		0.250	0	0	NR	NR	NR	0
OH NPDES		TP	NR	NR	NR	NR	NR	0
KY NPDES		TP	NR	NR	NR	NR	NR	0
OH AIRS		TP	NR	NR	NR	NR	NR	0
KY AIRS		TP	NR	NR	NR	NR	NR	0
OH USD		0.500	0	0	0	NR	NR	0
OH HIST USD		0.500	0	0	0	NR	NR	0
KY LEAD		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		0.500	0	0	0	NR	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		TP	NR	NR	NR	NR	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

1
South
< 1/8
0.057 mi.
303 ft.

HEIDEPOHL BREWERY
800 HEIDEPOHL DR
CINCINNATI, OH 45201

OH LUST **S104267196**
N/A

Relative:
Lower

Actual:
491 ft.

LUST:
Release Number: 31010139-N00001
Release Date: 5/13/1991
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 12/7/1992

A2
WSW
< 1/8
0.070 mi.
368 ft.

KRUSE HARDWARE
518 LYNN ST
CINCINNATI, OH 45201

OH LUST **S104267141**
N/A

Site 1 of 4 in cluster A

Relative:
Lower

Actual:
493 ft.

LUST:
Release Number: 31010083-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000

A3
WSW
< 1/8
0.070 mi.
368 ft.

KRUSE HARDWARE
518 LYNN ST
CINCINNATI, OH 45201

OH UST **U004094595**
N/A

Site 2 of 4 in cluster A

Relative:
Lower

Actual:
493 ft.

Facility:
Facility ID: 31010083
Facility Type: Not reported
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W015804
Owner Name: KRUSE HARDWARE
Owner Address: 518 LYNN ST
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45201
Owner Phone: Not reported

UST:
Tank ID: Not reported
Tank Status: Not reported
Tank Type: Not reported
Capacity: Not reported

KRUSE HARDWARE (Continued) **U004094595**

Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

A4 **BUTTERNUT BREAD** **OH UNREG LTANKS** **S105904714**
SW **747 W 5TH ST/747 HUDEPHOL AVE** **N/A**
< 1/8 **CINCINNATI, OH 45203**
0.073 mi.
388 ft. **Site 3 of 4 in cluster A**

Relative: **Lower**

Actual: **489 ft.**

UNREG LTANKS:

Facility Status:	**A possible incident is reported**		
Facility Id:	310698	Facility County #:	31
Facility Track:	1	Facility Phone:	Not reported
Report Number:	3110111	Incident Number:	311011101
RP Status:	Not reported	RP Search Date:	Not reported
Inspector:	Not reported	Coordinator:	COCL
Revised Date:	Not reported	Fiscal Tracking:	FY91
Class:	D	Priority:	2
Vacant:	Not reported	Lust Trust Fund:	2
Emrgncy Resp:	2	ER By:	Not reported
Authorized By:	ORD	Authorized Date:	04/03/96
Added Date:	04/16/96	Entry By:	STOVER

Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	OH
Owner Phone:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator C,S,Z:	OH
Operator Phone:	Not reported
Remarks:	Not reported
Summary:	Not reported

A5
SW
< 1/8
0.075 mi.
395 ft.

UNK
LINN / 5TH
CINCINNATI, OH

OH SPILLS **S107617157**
N/A

Site 4 of 4 in cluster A

Relative:
Lower

Actual:
489 ft.

SPILLS:

Spill No.:	0509-31-3988
Spill Year:	2005
Sequential Number:	Not reported
Date Spill Reported:	9/27/2005 10:05:49
Spill Month:	9
Spill Number:	3988
Reporter Name:	JODI BILLMAN
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	ORPHAN DRUM

B6
WNW
< 1/8
0.077 mi.
408 ft.

KRUSE HARDWARE CO INC THE
SIXTH & LINN STS
CINCINNATI, OH 45203

FINDS **1000379033**
RCRA-NonGen **OHD006999536**

Site 1 of 3 in cluster B

Relative:
Lower

Actual:
505 ft.

FINDS:

Registry ID: 110008118731

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-NonGen:

Date form received by agency:	08/21/1980
Facility name:	KRUSE HARDWARE CO INC THE
Facility address:	SIXTH & LINN STS CINCINNATI, OH 45203
EPA ID:	OHD006999536
Mailing address:	600 LINN ST CINCINNATI, OH 45203
Contact:	GEORGE HOVEKAMP
Contact address:	600 LINN ST CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 721-6300
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

KRUSE HARDWARE CO INC THE (Continued) **1000379033**

Owner/Operator Summary:
- Owner/operator name: NAME NOT REPORTED
- Owner/operator address: ADDRESS NOT REPORTED
  CITY NOT REPORTED, AK 99998
- Owner/operator country: Not reported
- Owner/operator telephone: (312) 555-1212
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: THE KRUSE HARDWARE CO INC
- Owner/operator address: ADDRESS NOT REPORTED
  CITY NOT REPORTED, AK 99998
- Owner/operator country: Not reported
- Owner/operator telephone: (312) 555-1212
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: Unknown
- Mixed waste (haz. and radioactive): Unknown
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: Unknown
- Furnace exemption: Unknown
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No
- Off-site waste receiver: Commercial status unknown

Historical Generators:
- Date form received by agency: 08/18/1980
- Facility name: KRUSE HARDWARE CO INC THE
- Classification: Not a generator, verified

Hazardous Waste Summary:
- Waste code: D003
- Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- Violation Status: No violations found

C7 **NATIONAL UNDERWRITER CO** **FINDS 1004763350**
East **505 GEST ST** **RCRA-CESQG OH0000630640**
< 1/8 **CINCINNATI, OH 45203**
0.083 mi.
440 ft. **Site 1 of 8 in cluster C**

Relative:
Lower

Actual:
515 ft.

FINDS:

Registry ID: 110004576263

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency:	09/29/1994
Facility name:	NATIONAL UNDERWRITER CO
Facility address:	505 GEST ST CINCINNATI, OH 45203
EPA ID:	OH0000630640
Contact:	LARRY MUZYKA
Contact address:	505 GEST ST CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 721-2140
Contact email:	Not reported
EPA Region:	05
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ESOP C/O NU CO
Owner/operator address:	505 GEST ST

NATIONAL UNDERWRITER CO (Continued) **1004763350**

CINCINNATI, OH 45203
Owner/operator country: Not reported
Owner/operator telephone: (513) 721-2140
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

C8 **INTERSTATE BRANDS** **OH SPILLS** **S105729977**
ESE **747 W 5TH ST** **N/A**
< 1/8 **CINCINNATI, OH**
0.084 mi.
443 ft. **Site 2 of 8 in cluster C**

Relative:
Lower

Actual:
513 ft.

SPILLS:
Spill No.: 0201-31-0091
Spill Year: 2002
Sequential Number: Not reported
Date Spill Reported: 01/10/02
Spill Month: 1
Spill Number: 0091
Reporter Name: GARY BREWER
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: DIESEL FUEL

C9
ESE
< 1/8
0.084 mi.
443 ft.

500 GEST ST
CINCINNATI, OH 45203

IN SPILLS **S109095423**
N/A

Site 3 of 8 in cluster C

Relative:
Lower

Actual:
513 ft.

SPILL:

Facility ID:	200805024
Incident Date:	5/1/2008 20:15:02
Report Date:	5/2/2008 14:23:02
Material:	CHLOROFORM
Spill Source:	Trans - Truck
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Other
Area Affected:	INSIDE OF TRAILER
Fish Killed:	Not reported
Public Intake:	Not reported

C10
ESE
< 1/8
0.084 mi.
443 ft.

INTERSTATE BRANDS CORP.
747 WEST 5TH ST
CINCINNATI, OH 45203

OH LUST **U003130244**
OH UST **N/A**

Site 4 of 8 in cluster C

Relative:
Lower

Actual:
513 ft.

LUST:

Release Number:	31000698-N00002
Release Date:	1/23/1991
Facility Status:	**Active**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	2
Review Date:	4/21/1992

Facility:

Facility ID:	31000698
Facility Type:	Commercial
24 Hour Emergency Contact:	GARY BREWER
24 Hour Emergency Phon:	(513)721-0212
Number Of Tanks On Site:	1
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	Yes
Owner Id:	W007148
Owner Name:	INTERSTATE BRANDS CORP.
Owner Address:	747 WEST 5TH ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	(513)721-0212

UST:

Tank ID:	T00001
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic

INTERSTATE BRANDS CORP. (Continued) **U003130244**

Capacity:	20000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	10/1/1990
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Double Walled
Piping Type:	Pressure
Release Detection on Piping:	Interstitial Monitoring Double Walled;Mechanical Line Leak Detector

Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1966
Date Removed:	1/1/1987
Date Last Used:	Not reported
Date Abandoned/Closed:	1/1/1987
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	6000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1953
Date Removed:	1/1/1985
Date Last Used:	Not reported
Date Abandoned/Closed:	1/1/1986
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel

INTERSTATE BRANDS CORP. (Continued) **U003130244**

Piping Type: Not reported
Release Detection on Piping: Not reported

C11 **UNITED PARCEL SERVICE** **RCRA-SQG 1000398804**
ESE **500 GEST STREET** **FINDS OHD006999908**
< 1/8 **CINCINNATI, OH 45203** **OH LUST**
0.084 mi. **OH UST**
443 ft. **Site 5 of 8 in cluster C**

Relative:
Lower

Actual:
513 ft.

RCRA-SQG:
Date form received by agency: 09/21/1994
Facility name: UNITED PARCEL SERVICE INC
Facility address: 500 GUEST ST
CINCINNATI, OH 45203
EPA ID: OHD006999908
Contact: PETE GUINOSSO
Contact address: 500 GUEST ST
CINCINNATI, OH 45203
Contact country: US
Contact telephone: (513) 852-6286
Contact email: Not reported
EPA Region: 05
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: UNITED PARCEL SERVICE INC
Owner/operator address: 500 GEST ST
CINCINNATI, OH 45203
Owner/operator country: Not reported
Owner/operator telephone: (513) 852-6200
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No

UNITED PARCEL SERVICE (Continued) **1000398804**

Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code:	NONE
Waste name:	None

Violation Status: No violations found

FINDS:

Registry ID: 110004598757

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

LUST:

Release Number:	31007284-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000

Release Number:	31007284-N00002
Release Date:	9/12/1998
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	Not reported
Review Date:	9/8/2003

Facility:

UNITED PARCEL SERVICE (Continued) **1000398804**

Facility ID:	31007284
Facility Type:	Trucking/Transport
24 Hour Emergency Contact:	MICHAEL SULLIVAN
24 Hour Emergency Phon:	(859)621-9217
Number Of Tanks On Site:	2
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W018387
Owner Name:	UNITED PARCEL SERVICE, INC
Owner Address:	1800 MERCER RD
Owner City:	LEXINGTON
Owner State:	KY
Owner Zip:	40511
Owner Phone:	(859)259-4394

Inspection:

Facility Id:	31007284
Inspection Id:	10/9/03
Code:	302
Permit Number:	P00002
Inspection Type:	Final
Facility Id:	31007284
Inspection Id:	9/12/98
Code:	101
Permit Number:	P00001
Inspection Type:	Final
Facility Id:	31007284
Inspection Id:	11/18/06
Code:	504
Permit Number:	P00003
Inspection Type:	Final

Permit:

Facility Id:	31007284
Permit Id:	P00001
Permit Status:	Expired
Issued Date:	7/22/1999
Lfd Permit Id:	Not reported
Facility Id:	31007284
Permit Id:	P00002
Permit Status:	Closed
Issued Date:	10/9/2003
Lfd Permit Id:	12601
Facility Id:	31007284
Permit Id:	P00003
Permit Status:	Closed
Issued Date:	9/11/2006
Lfd Permit Id:	13557

UST:

Tank ID:	T00001

UNITED PARCEL SERVICE (Continued) **1000398804**

Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	5/1/1968
Date Removed:	1/18/1991
Date Last Used:	Not reported
Date Abandoned/Closed:	1/18/1991
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	5/1/1968
Date Removed:	1/18/1991
Date Last Used:	Not reported
Date Abandoned/Closed:	1/18/1991
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	5/1/1968
Date Removed:	1/18/1991
Date Last Used:	Not reported
Date Abandoned/Closed:	1/18/1991
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398804**

Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00004
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	5/1/1968
Date Removed:	1/18/1991
Date Last Used:	Not reported
Date Abandoned/Closed:	1/18/1991
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00005
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	500
Content:	Used Oil
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	5/1/1968
Date Removed:	10/15/1990
Date Last Used:	Not reported
Date Abandoned/Closed:	10/15/1990
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Gravity Feed
Release Detection on Piping:	Not reported

Tank ID:	T00006
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic;Polyethylene Jacke
Capacity:	15000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST

UNITED PARCEL SERVICE (Continued) **1000398804**

Installation Date:	3/1/1991
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic;Do
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00007
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic;Polyethylene Jacke
Capacity:	30000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	3/1/1991
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic;Do
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

C12 **UPS** **OH SPILLS** **S102479582**
ESE **500 GEST ST** **N/A**
< 1/8 **CINCINNATI, OH**
0.084 mi.
443 ft. **Site 6 of 8 in cluster C**

Relative: **Lower**

Actual: **513 ft.**

SPILLS:

Spill No.:	9605-31-2206
Spill Year:	1996
Sequential Number:	Not reported
Date Spill Reported:	05/21/96
Spill Month:	5
Spill Number:	2206
Reporter Name:	DAVE KOVAKS
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	17053 URANINE LIQUID GREEN DYE

C13 **UPS** **OH SPILLS** **S106332389**
ESE **500 GEST ST.** **N/A**
< 1/8 **CINCINATI, OH**
0.084 mi.
443 ft. **Site 7 of 8 in cluster C**

Relative: **Lower**

Actual: **513 ft.**

SPILLS:

Spill No.:	9103-31-0647
Spill Year:	1991
Sequential Number:	Not reported
Date Spill Reported:	03/04/91
Spill Month:	3
Spill Number:	0647
Reporter Name:	COMPANY
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	REPORT ATTACHED
Product Spilled Name:	PYRIDINE

Spill No.:	9103-31-0647
Spill Year:	1991
Sequential Number:	Not reported
Date Spill Reported:	03/04/91
Spill Month:	3
Spill Number:	0647
Reporter Name:	COMPANY
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	REPORT ATTACHED
Product Spilled Name:	PYRIDINE

B14 **QUEENGATE FOODSERVICE** **OH UST** **U001430986**
WNW **619 LINN ST** **N/A**
< 1/8 **CINCINNATI, OH 45203**
0.084 mi.
446 ft. **Site 2 of 3 in cluster B**

Relative: **Lower**

Actual: **508 ft.**

Facility:

Facility ID:	31000847
Facility Type:	Commercial
24 Hour Emergency Contact:	PATRICK OCALLAGHAN
24 Hour Emergency Phon:	(513)470-1000
Number Of Tanks On Site:	2
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W022092
Owner Name:	MULLAGHAN PROPERTIES LLC
Owner Address:	619 LINN ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	(513)721-5503

QUEENGATE FOODSERVICE (Continued) **U001430986**

UST:

Tank ID:	T00001
Tank Status:	**Currently In Use**
Tank Type:	BM - Bare Metal
Capacity:	4000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	5/1/1991
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	FLDA - Field Galvanic Anodes
Release Detection on Tank:	Alternative Method;Automatic Tank Gauging
Corrosion Protection Piping:	FLDA - Field Galvanic Anodes
Piping Material:	BM - Bare Metal
Piping Type:	Suction: valve at dispenser
Release Detection on Piping:	Electronic Line Leak Detector;Ground Water Monitoring;Safe Suction

Tank ID:	T00002
Tank Status:	**Currently In Use**
Tank Type:	BM - Bare Metal
Capacity:	4000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	5/1/1991
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	FLDA - Field Galvanic Anodes
Release Detection on Tank:	Alternative Method;Automatic Tank Gauging
Corrosion Protection Piping:	FLDA - Field Galvanic Anodes
Piping Material:	BM - Bare Metal
Piping Type:	Suction: valve at dispenser
Release Detection on Piping:	Electronic Line Leak Detector;Ground Water Monitoring;Safe Suction

---

C15 **500 GEST ST.** **ERNS** **2008869702**
ESE **500 GEST ST.** **N/A**
< 1/8 **CINCINNATI, OH**
0.085 mi.
447 ft. **Site 8 of 8 in cluster C**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
514 ft.

B16
WNW
< 1/8
0.086 mi.
453 ft.

EDWARDS TRANSPORTATION
645 LINN
CINCINNATI, OH

OH SPILLS **S102881240**
N/A

Site 3 of 3 in cluster B

Relative:
Lower

Actual:
508 ft.

SPILLS:

Spill No.:	9009-31-4417
Spill Year:	1990
Sequential Number:	Not reported
Date Spill Reported:	09/13/90
Spill Month:	9
Spill Number:	4417
Reporter Name:	FD
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	DIESEL FUEL

17
SE
< 1/8
0.105 mi.
553 ft.

CINERGY CORP QUEENSGATE BLDG
424 GEST ST
CINCINNATI, OH 45203

RCRA-SQG **1000171727**
FINDS **OHD981189582**
OH LUST
OH UST
NY MANIFEST

Relative:
Lower

Actual:
501 ft.

RCRA-SQG:

Date form received by agency:	03/07/1994
Facility name:	CINCINNATI GAS AND ELEC QUEENSGATE
Facility address:	424 GEST ST CINCINNATI, OH 45203
EPA ID:	OHD981189582
Mailing address:	PO BOX 960 CINCINNATI, OH 452010960
Contact:	RANDALL BORN
Contact address:	PO BOX 960 CINCINNATI, OH 452010960
Contact country:	US
Contact telephone:	(513) 287-3234
Contact email:	Not reported
EPA Region:	05
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CINCINNATI GAS AND ELECTRIC CO THE
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110009605310

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

LUST:
Release Number: 31000149-N00001
Release Date: Not reported

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Facility Status: **Inactive**
LTF Status: 1 SUS/CON from regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 6/20/2000

Facility:

Facility ID:	31000149
Facility Type:	Utilities
24 Hour Emergency Contact:	Kim Edwards
24 Hour Emergency Phon:	(317)838-2701
Number Of Tanks On Site:	4
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W000106
Owner Name:	Duke Energy
Owner Address:	139 4TH ST ATTN:KIM EDWARDS
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45202
Owner Phone:	(317)838-2701

UST:

Tank ID:	T00001
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic;Double Walled (Int
Capacity:	12000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	9/1/1990
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic;Do
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Interstitial Monitoring Double Walled

Tank ID:	T00002
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic;Double Walled (Int
Capacity:	8000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	9/1/1990

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic;Do
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Interstitial Monitoring Double Walled

Tank ID:	T00003
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic;Double Walled (Int
Capacity:	2500
Content:	Used Oil
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	9/1/1990
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic;Do
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Interstitial Monitoring Double Walled

Tank ID:	T00004
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic;Double Walled (Int
Capacity:	1000
Content:	Used Oil
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	9/1/1990
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic;Do
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Interstitial Monitoring Double Walled

NY MANIFEST:

EPA ID:	OHD981189582
Country:	USA
Mailing Name:	C G & E QUEENSGATE

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Mailing Contact:	DAN BORKE
Mailing Address:	424 GEST ST
Mailing Address 2:	Not reported
Mailing City:	CINCINNATI
Mailing State:	OH
Mailing Zip:	45203
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	513-287-3234

Document ID:	NYB4177728
Manifest Status:	Completed copy
Trans1 State ID:	T587KDOH
Trans2 State ID:	Not reported
Generator Ship Date:	940427
Trans1 Recv Date:	940427
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940503
Part A Recv Date:	940505
Part B Recv Date:	940516
Generator EPA ID:	OHD981189582
Trans1 EPA ID:	OHD009865825
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000632372
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00035
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	94
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB4177692
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	940916
Trans1 Recv Date:	940916
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940920
Part A Recv Date:	940927
Part B Recv Date:	940928

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Generator EPA ID:	OHD981189582
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000632372
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00030
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	94
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB4177701
Manifest Status:	Completed copy
Trans1 State ID:	CAFT43290
Trans2 State ID:	Not reported
Generator Ship Date:	950116
Trans1 Recv Date:	950116
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950126
Part A Recv Date:	950130
Part B Recv Date:	950203
Generator EPA ID:	OHD981189582
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000632372
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00006
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB4177719
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	950810
Trans1 Recv Date:	950810
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950816
Part A Recv Date:	950822
Part B Recv Date:	950901
Generator EPA ID:	OHD981189582
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000632372
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00012
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB7800678
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	950809
Trans1 Recv Date:	950809
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950816
Part A Recv Date:	950822
Part B Recv Date:	950901
Generator EPA ID:	OHD981189582
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000632372
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00003

CINERGY CORP QUEENSGATE BLDG (Continued) **1000171727**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

18
WSW
< 1/8
0.113 mi.
596 ft.

I DEUTCH & SONS **OH SPILLS** **S106330020**
925 WEST 5TH ST **N/A**
CINCINNATI, OH

Relative:
Lower

Actual:
492 ft.

SPILLS:

Spill No.:	9409-31-4259
Spill Year:	1994
Sequential Number:	Not reported
Date Spill Reported:	09/24/94
Spill Month:	9
Spill Number:	4259
Reporter Name:	DAN COON
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1767
Lat/Long:	39D0555.1 / 84D31 52.1
Product Spilled Name:	MATERIAL UNKNOWN

D19
SSW
1/8-1/4
0.128 mi.
674 ft.

DEUTCH & SON **OH SPILLS** **S102899542**
311 BAY MILLER **N/A**
CINCINNATI, OH

Site 1 of 5 in cluster D

Relative:
Lower

Actual:
490 ft.

SPILLS:

Spill No.:	9303-31-1058
Spill Year:	1993
Sequential Number:	Not reported
Date Spill Reported:	03/24/93
Spill Month:	3
Spill Number:	1058
Reporter Name:	OEPA
Confidential:	No
District Code:	SW

DEUTCH & SON (Continued) **S102899542**

County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: DRUMS

D20
SSW
1/8-1/4
0.128 mi.
678 ft.

Relative:
Lower

Actual:
490 ft.

I. DEUTCH & SONS, INC. **OH UST** **U004093387**
311 BAYMILLER ST **N/A**
CINCINNATI, OH 45203

Site 2 of 5 in cluster D

Facility:

Facility ID:	31000035
Facility Type:	Commercial
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W001982
Owner Name:	I. DEUTCH & SONS, INC.
Owner Address:	311 BAYMILLER ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	(513) 721-7256

Permit:

Facility Id:	31000035
Permit Id:	P00001
Permit Status:	Closed
Issued Date:	7/17/1997
Lfd Permit Id:	05429

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	1000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1970
Date Removed:	7/17/1997
Date Last Used:	Not reported
Date Abandoned/Closed:	7/17/1997
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Not reported
Release Detection on Piping:	Not reported

D21
SSW
1/8-1/4
0.128 mi.
678 ft.

I. DEUTCH & SONS, INC.
311 BAYMILLER ST
CINCINNATI, OH 45203

OH LUST **S104776660**
N/A

Site 3 of 5 in cluster D

Relative:
Lower

Actual:
490 ft.

LUST:
Release Number: 31000035-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000

D22
SSW
1/8-1/4
0.128 mi.
678 ft.

I DEUTCH AND SON INC
311 BAY MILLER STREET
CINCINNATI, OH 45203

FINDS **1004573057**
OH SPILLS **N/A**

Site 4 of 5 in cluster D

Relative:
Lower

Actual:
490 ft.

FINDS:

Registry ID: 110001630254

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

I DEUTCH AND SON INC (Continued) **1004573057**

SPILLS:

Spill No.:	9006-31-2743
Spill Year:	1990
Sequential Number:	Not reported
Date Spill Reported:	06/01/90
Spill Month:	6
Spill Number:	2743
Reporter Name:	OCO
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	HYDRAULIC OIL

D23 **MAINLINE RECYCLING** **RCRA-NonGen** **1007113199**
SSW **311 BAYMILLER ST** **OHR000106583**
1/8-1/4 **CINCINNATI, OH 45203**
0.128 mi.
678 ft. **Site 5 of 5 in cluster D**

Relative:
Lower

Actual:
490 ft.

RCRA-NonGen:

Date form received by agency:	06/26/2001
Facility name:	MAINLINE RECYCLING
Facility address:	311 BAYMILLER ST CINCINNATI, OH 45203
EPA ID:	OHR000106583
Mailing address:	P O BOX 933 ELLIOTT STATION BUFFALO, NY 14205
Contact:	NOT GIVEN NOT GIVEN
Contact address:	P O BOX 933 ELLIOTT STATION BUFFALO, NY 14205
Contact country:	US
Contact telephone:	NOT GIVEN
Contact email:	Not reported
EPA Region:	05
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MAINLINE CONTRACTING CORP
Owner/operator address:	P O BOX 933 BUFFALO, NY 14205
Owner/operator country:	Not reported
Owner/operator telephone:	(710) 842-0860
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/0001
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No

MAINLINE RECYCLING (Continued) **1007113199**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Facility Has Received Notices of Violations:

Regulation violated:	SR - 3745-279-22(C)(1)
Area of violation:	Used Oil - Definitions
Date violation determined:	06/26/2001
Date achieved compliance:	09/21/2001
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	07/16/2001
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	SR - 3745-52-11
Area of violation:	Generators - General
Date violation determined:	06/26/2001
Date achieved compliance:	09/21/2001
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	07/16/2001
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Evaluation Action Summary:

Evaluation date:	06/26/2001
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Generators - General
Date achieved compliance:	09/21/2001
Evaluation lead agency:	State

Evaluation date:	06/26/2001
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Used Oil - Definitions
Date achieved compliance:	09/21/2001
Evaluation lead agency:	State

24
SSE
1/8-1/4
0.142 mi.
748 ft.

TERMANEX
350 GEST ST
CINCINNATI, OH

OH SPILLS **S102600359**
N/A

Relative:
Lower

Actual:
498 ft.

SPILLS:

Spill No.:	9705-31-2102
Spill Year:	1997
Sequential Number:	Not reported
Date Spill Reported:	05/30/97
Spill Month:	5
Spill Number:	2102
Reporter Name:	ANON
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	RINSE WATER

E25
ENE
1/8-1/4
0.151 mi.
799 ft.

BUTTERNUT BREAD CO
747 W FIFTH ST
CINCINNATI, OH

Site 1 of 2 in cluster E

OH SPILLS **S102479502**
N/A

Relative:
Higher

Actual:
547 ft.

SPILLS:

Spill No.:	9604-31-1291
Spill Year:	1996
Sequential Number:	Not reported
Date Spill Reported:	04/02/96
Spill Month:	4
Spill Number:	1291
Reporter Name:	MIKE WALDREN
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	DIESEL FUEL

E26
ENE
1/8-1/4
0.151 mi.
799 ft.

INTERSTATE BRANDS CORPORATION
747 W FIFTH ST
CINCINNATI, OH 45203

Site 2 of 2 in cluster E

FINDS **1005417469**
RCRA-CESQG **OHR000108159**

Relative:
Higher

Actual:
547 ft.

FINDS:

Registry ID: 110012193429

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is

INTERSTATE BRANDS CORPORATION (Continued) **1005417469**

used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency:	02/13/2006
Facility name:	INTERSTATE BRANDS CORPORATION
Facility address:	747 W FIFTH ST CINCINNATI, OH 45203
EPA ID:	OHR000108159
Contact:	JAMIE L HATFIELD
Contact address:	747 W FIFTH ST CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(419) 619-9297
Contact email:	HATFIELD_JAMIE@INTERSTATEBRANDS.COM
EPA Region:	05
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	INTERSTATE BRANDS
Owner/operator address:	12 E ARMOUR BLVD KANSAS CITY, MO 64111
Owner/operator country:	US

INTERSTATE BRANDS CORPORATION (Continued) **1005417469**

Owner/operator telephone: (816) 502-4000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/23/1995
Owner/Op end date: Not reported

Owner/operator name: INTERSTATE BRANDS
Owner/operator address: 747 W FIFTH ST
CINCINNATI, OH 45203
Owner/operator country: US
Owner/operator telephone: (513) 721-0212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/23/1995
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 03/11/2002
Facility name: INTERSTATE BRANDS CORPORATION
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED

INTERSTATE BRANDS CORPORATION (Continued) **1005417469**

SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

27
SSE
1/8-1/4
0.164 mi.
868 ft.

750 WEST THIRD STREET SITE **CERCLIS** **1007372410**
750 WEST THIRD STREET **OHN000509089**
CINCINNATI, OH 45268

Relative:
Lower

Actual:
489 ft.

CERCLIS:
Site ID: 0509089
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

CERCLIS Site Contact Name(s):
Contact Name: STEVEN L. RENNINGER
Contact Tel: (513) 569-7539
Contact Title: On-Scene Coordinator (OSC)

Site Description: Abandoned batteries and drums containing cadmium TCLP wastes and caustics. Property is owned by CSX Transporation, west of downtown Cincinnati.

CERCLIS Assessment History:
Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 01/02/2004
Priority Level: Not reported

Action: REMOVAL
Date Started: 02/11/2004
Date Completed: 02/11/2004
Priority Level: Cleaned up

Action: POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL
Date Started: 02/11/2004
Date Completed: 02/25/2004
Priority Level: Cleaned up

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 03/04/2004
Priority Level: Not reported

F28
SSE
1/8-1/4
0.177 mi.
935 ft.

UNK
W 3RD ST / GEST ST
CINCINNATI, OH

OH SPILLS **S106308306**
N/A

Site 1 of 3 in cluster F

Relative:
Lower

Actual:
492 ft.

SPILLS:

Spill No.:	0310-31-3885
Spill Year:	2003
Sequential Number:	Not reported
Date Spill Reported:	10/06/03
Spill Month:	10
Spill Number:	3885
Reporter Name:	RICK JONES
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1767
Lat/Long:	Not reported
Product Spilled Name:	DRUMS

F29
SSE
1/8-1/4
0.180 mi.
949 ft.

INTERMODAL TRANSPORTATION
750 W THIRD
CINCINNATI, OH 45202

FINDS **1000216181**
RCRA-NonGen **OHD076789494**

Site 2 of 3 in cluster F

Relative:
Lower

Actual:
490 ft.

FINDS:

Registry ID: 110004622873

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-NonGen:

Date form received by agency:	12/05/1980
Facility name:	INTERMODAL TRANSPORTATION SERVICES INC
Facility address:	750 W THIRD CINCINNATI, OH 45202
EPA ID:	OHD076789494
Contact:	CHUCK MELVILLE
Contact address:	750 W THIRD CINCINNATI, OH 45202
Contact country:	US
Contact telephone:	(513) 621-1200
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	LOUISVILLE & NASHVILLE RAILROAD
Owner/operator address:	ADDRESS NOT REPORTED

INTERMODAL TRANSPORTATION (Continued) **1000216181**

CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

F30 **CG&E** **OH SPILLS** **S102899545**
SSE **GEST / THIRD ST** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.184 mi.
973 ft. **Site 3 of 3 in cluster F**

Relative:
Lower

Actual:
494 ft.

SPILLS:
Spill No.: 9609-31-4056
Spill Year: 1996
Sequential Number: Not reported
Date Spill Reported: 09/18/96
Spill Month: 9
Spill Number: 4056
Reporter Name: PATRICK COYLE
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: FUEL OIL

G31 **311 MAYMILLER ST. DEUTCH AND SONS SCRAPYARD** **ERNS** **91215932**
SSW **311 MAYMILLER ST. DEUTCH AND SONS SCRAPYARD** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.193 mi.
1020 ft. **Site 1 of 22 in cluster G**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
492 ft.

---

32 **MSD** **OH SPILLS** **S106334651**
SSE **160 GEST ST.** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.206 mi.
1090 ft.

Relative:
Lower

Actual:
490 ft.

SPILLS:

Spill No.:	9011-31-5512
Spill Year:	1990
Sequential Number:	Not reported
Date Spill Reported:	11/30/90
Spill Month:	11
Spill Number:	5512
Reporter Name:	LOCAL
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	IRON CHLORIDE

G33 **CINCINNATI METRO SEWER DISTRICT** **OH LUST** **S104776672**
SSW **MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.207 mi.
1095 ft. **Site 2 of 22 in cluster G**

Relative:
Lower

Actual:
492 ft.

LUST:

Release Number:	31000109-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000

---

34 **CHEVRON STATION 123495 *** **RCRA-SQG** **1000560779**
NNW **811 W 8TH AND LINN** **FINDS** **OHD987015633**
1/8-1/4 **CINCINNATI, OH 45203** **OH LUST**
0.208 mi. **OH UST**
1098 ft.

Relative:
Lower

Actual:
521 ft.

RCRA-SQG:

Date form received by agency:	04/01/1991
Facility name:	CHEVRON STATION 123495
Facility address:	811 W 8TH AND LINN CINCINNATI, OH 45203
EPA ID:	OHD987015633

CHEVRON STATION 123495 * (Continued) **1000560779**

Mailing address:	P.O. BOX 1706 ATLANTA, GA 30301
Contact:	JUDY MCCOURT
Contact address:	P.O. BOX 1706 ATLANTA, GA 30301
Contact country:	US
Contact telephone:	(404) 984-4135
Contact email:	Not reported
EPA Region:	05
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CHEVRON USA INC
Owner/operator address:	P.O. BOX 1706 ATLANTA, GA 30301
Owner/operator country:	Not reported
Owner/operator telephone:	(404) 984-3000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code:	D000
Waste name:	Not Defined
Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

CHEVRON STATION 123495 * (Continued) **1000560779**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110007713723

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

LUST:
Release Number: 31000950-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 1 SUS/CON from regulated UST
FR Status: NFA: No Further Action
Priority: 1
Review Date: 6/20/2000

Release Number: 31000950-N00002
Release Date: 3/17/2004
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 5/6/2004

Facility:
Facility ID: 31000950
Facility Type: Gas Station
24 Hour Emergency Contact: PERS
24 Hour Emergency Phon: (800)633-8253
Number Of Tanks On Site: 4
Local Fire Department: CINCINNATI FIRE DEPARTMENT
Delegated Authority: Yes
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W000078
Owner Name: STEPHENSON OIL CO
Owner Address: 3938 STILLWELL BECKETT RD

CHEVRON STATION 123495 * (Continued) **1000560779**

Owner City: HAMILTON
Owner State: OH
Owner Zip: 45013
Owner Phone: (513)863-7080

Inspection:
Facility Id: 31000950
Inspection Id: 3/17/04
Code: 302
Permit Number: P00001
Inspection Type: Final

Permit:
Facility Id: 31000950
Permit Id: P00001
Permit Status: Closed
Issued Date: 8/26/2003
Lfd Permit Id: 10648

UST:
Tank ID: T00001
Tank Status: **Currently In Use**
Tank Type: Fiberglass Reinforced Plastic
Capacity: 8000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: Yes
Spill Device Installed: Yes
AST/UST: UST
Installation Date: 6/1/1986
Date Removed: Not reported
Date Last Used: Not reported
Date Abandoned/Closed: Not reported
Corrosion Protection Tank: None Required
Release Detection on Tank: Automatic Tank Gauging
Corrosion Protection Piping: None Required
Piping Material: Fiberglass Reinforced Plastic
Piping Type: Pressure
Release Detection on Piping: Electronic Line Leak Detector

Tank ID: T00002
Tank Status: **Currently In Use**
Tank Type: Fiberglass Reinforced Plastic
Capacity: 8000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: Yes
Spill Device Installed: Yes
AST/UST: UST
Installation Date: 6/1/1986
Date Removed: Not reported
Date Last Used: Not reported
Date Abandoned/Closed: Not reported
Corrosion Protection Tank: None Required
Release Detection on Tank: Automatic Tank Gauging

CHEVRON STATION 123495 * (Continued) **1000560779**

Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00003
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	8000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	6/1/1986
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00004
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	6/1/1986
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

G35 **895 WEST MEHRING WAY** **ERNS** **2002614126**
SSW **895 WEST MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 0**
0.211 mi.
1116 ft. **Site 3 of 22 in cluster G**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
491 ft.

G36 **895 MEHRING WAY** **ERNS** **2002625285**
SSW **895 MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 0**
0.212 mi.
1117 ft. **Site 4 of 22 in cluster G**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
491 ft.

G37 **IN SPILLS** **S103365890**
SSW **895 W MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 5 of 22 in cluster G**

Relative:
Lower

Actual:
491 ft.

SPILL:

Facility ID:	199808014
Incident Date:	8/5/1998 8:30:00
Report Date:	8/5/1998 8:27:00
Material:	Hydraulic Oil
Spill Source:	Other
Recovered Amount:	Not reported
Recovered Units:	Unknown Units
Spilled Amount:	Not reported
Spilled Units:	Unknown Units
Contained:	N
Water Affected:	Nrc#449048
Spill Type:	Other
Area Affected:	Not reported
Fish Killed:	0
Public Intake:	Not reported

Facility ID:	200504217
Incident Date:	4/19/2005 8:45:06
Report Date:	4/19/2005 9:41:06
Material:	HYDRAULIC OIL
Spill Source:	Industrial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Other
Area Affected:	OHIO RIVER
Fish Killed:	Not reported
Public Intake:	Not reported

Facility ID:	200507053
Incident Date:	7/11/2005 14:00:53

(Continued) S103365890

Report Date:	7/11/2005 18:05:53
Material:	HYDRAULIC OIL
Spill Source:	Industrial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	OHIO RIVER
Spill Type:	Other
Area Affected:	OHIO RIVER
Fish Killed:	Not reported
Public Intake:	Not reported

G38 **895 W. MEHRING WAY** ERNS 2007323403
SSW **895 W. MEHRING WAY** N/A
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 6 of 22 in cluster G**

Relative: Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: 491 ft.

G39 **895 W. MEHRING WAY** ERNS 2000537670
SSW **895 W. MEHRING WAY** N/A
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 7 of 22 in cluster G**

Relative: Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: 491 ft.

G40 **895 WEST MEHRING WAY** ERNS 2000516015
SSW **895 WEST MEHRING WAY** N/A
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 8 of 22 in cluster G**

Relative: Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: 491 ft.

G41 **895 W. MEHRING WAY** ERNS 96515971
SSW **895 W. MEHRING WAY** N/A
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 9 of 22 in cluster G**

Relative: Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: 491 ft.

G42
SSW
1/8-1/4
0.212 mi.
1117 ft.

895 W. MEHRING WAY
895 W. MEHRING WAY
CINCINNATI, OH 45203

Site 10 of 22 in cluster G

Relative:
Lower

Actual:
491 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ERNS **2005617088**
N/A

G43
SSW
1/8-1/4
0.212 mi.
1117 ft.

895 WEST MEHRING WAY
895 WEST MEHRING WAY
CINCINNATI, OH 45203

Site 11 of 22 in cluster G

Relative:
Lower

Actual:
491 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ERNS **2006812264**
N/A

G44
SSW
1/8-1/4
0.212 mi.
1117 ft.

895 W. MEHRING WAY
895 W. MEHRING WAY
CINCINNATI, OH 45203

Site 12 of 22 in cluster G

Relative:
Lower

Actual:
491 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ERNS **2005608091**
N/A

G45
SSW
1/8-1/4
0.212 mi.
1117 ft.

895 MEHRING WAY
CINCINNATI, OH 45202

Site 13 of 22 in cluster G

Relative:
Lower

Actual:
491 ft.

SPILL:

Facility ID:	200210066
Incident Date:	8/1/2002 12:00:00
Report Date:	10/8/2002 12:10:00
Material:	Iron ore
Spill Source:	Industrial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Ohio River
Spill Type:	Spill
Area Affected:	Not reported
Fish Killed:	Not reported
Public Intake:	Not reported

IN SPILLS **S105679287**
N/A

G46 **895 W. MEHRING WAY** **ERNS** **2007325014**
SSW **895 W. MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.212 mi.
1117 ft. **Site 14 of 22 in cluster G**

Relative: **Lower**

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: **491 ft.**

G47 **IN SPILLS** **S104732411**
SSW **895 W MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 15 of 22 in cluster G**

Relative: **Lower**

Actual: **491 ft.**

SPILL:

Facility ID:	200008035
Incident Date:	8/4/2000 14:00:00
Report Date:	8/4/2000 14:42:00
Material:	Unknown Oil
Spill Source:	Commercial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	1
Spilled Units:	Gallons
Contained:	Not reported
Water Affected:	Ohio River
Spill Type:	Spill
Area Affected:	Not reported
Fish Killed:	Not reported
Public Intake:	Not reported

G48 **895 W. MEHRING WAY** **ERNS** **2000549697**
SSW **895 W. MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 16 of 22 in cluster G**

Relative: **Lower**

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: **491 ft.**

G49 **IN SPILLS** **S104904069**
SSW **895 W MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 17 of 22 in cluster G**

Relative: **Lower**

Actual: **491 ft.**

SPILL:

Facility ID:	200012007
Incident Date:	12/1/2000 12:25:00
Report Date:	12/1/2000 13:03:54
Material:	Hydraulic Oil
Spill Source:	Commercial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	1
Spilled Units:	Gallons
Contained:	Not reported

(Continued) **S104904069**

Water Affected:	Mississippi River
Spill Type:	Spill
Area Affected:	unloading area
Fish Killed:	Not reported
Public Intake:	Not reported
Facility ID:	200709105
Incident Date:	9/13/2007 9:40:19
Report Date:	9/13/2007 9:50:19
Material:	HYDRAULIC OIL
Spill Source:	Industrial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	7
Spilled Units:	Gallons
Contained:	Not reported
Water Affected:	OHIO RIVER MILE 471
Spill Type:	Other
Area Affected:	OHIO RIVER MILE 471
Fish Killed:	Not reported
Public Intake:	Not reported

G50 **895 WEST MEHRING WAY** **ERNS** **98449048**
SSW **895 WEST MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 18 of 22 in cluster G**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
491 ft.

G51 **CINCINNATI BULK TERMINALS** **OH UST** **U004087219**
SSW **895 W MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.212 mi.
1117 ft. **Site 19 of 22 in cluster G**

Relative:
Lower

Actual:
491 ft.

Facility:

Facility ID:	31002369
Facility Type:	Commercial
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W011603
Owner Name:	CINCINNATI BULK TERMINALS
Owner Address:	895 W MEHRING WAY
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	(513) 621-4800

Inspection:

Facility Id:	31002369

CINCINNATI BULK TERMINALS (Continued) **U004087219**

Inspection Id: 3/1/94
Code: 103
Permit Number: P00001
Inspection Type: Final

Permit:
Facility Id: 31002369
Permit Id: P00001
Permit Status: Expired
Issued Date: 10/19/1995
Lfd Permit Id: Not reported

UST:
Tank ID: T00001
Tank Status: REM
Tank Type: Steel
Capacity: 550
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: Not reported
Date Removed: 8/1/1993
Date Last Used: Not reported
Date Abandoned/Closed: 3/28/1994
Corrosion Protection Tank: Not reported
Release Detection on Tank: Manual Tank Gauging
Corrosion Protection Piping: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: valve at tank
Release Detection on Piping: Not reported

G52 **HATFIELD TERMINALS** **OH SPILLS** **S103703844**
SSW **895 W MEHRING WAY** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.212 mi.
1117 ft. **Site 20 of 22 in cluster G**

Relative:
Lower

Actual:
491 ft.

SPILLS:
Spill No.: 9206-31-2771
Spill Year: 1992
Sequential Number: Not reported
Date Spill Reported: 06/30/92
Spill Month: 6
Spill Number: 2771
Reporter Name: COMPANY
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: DIESEL FUEL

G53
SSW
1/8-1/4
0.212 mi.
1117 ft.

895 W MEHRING WAY
CINCINNATI, OH 45203

Site 21 of 22 in cluster G

IN SPILLS **S104904424**
N/A

Relative:
Lower

Actual:
491 ft.

SPILL:

Facility ID:	200101129
Incident Date:	1/21/2001 10:05:00
Report Date:	1/21/2001 10:19:00
Material:	Iron Ore
Spill Source:	Trans - Barge
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Other
Area Affected:	Not reported
Fish Killed:	Not reported
Public Intake:	Not reported

G54
SSW
1/8-1/4
0.212 mi.
1117 ft.

895 W. MEHRING WAY
895 W. MEHRING WAY
CINCINNATI, OH 45203

Site 22 of 22 in cluster G

ERNS **2001554260**
N/A

Relative:
Lower

Actual:
491 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

H55
WSW
1/8-1/4
0.229 mi.
1210 ft.

PROPOSED QUEENSGATE SOUTH
990 W 5TH ST
CINCINNATI, OH 45203

Site 1 of 6 in cluster H

RCRA-LQG **1010329545**
OHR000139832

Relative:
Lower

Actual:
486 ft.

RCRA-LQG:

Date form received by agency:	03/13/2007
Facility name:	PROPOSED QUEENSGATE SOUTH
Facility address:	990 W 5TH ST CINCINNATI, OH 45203
EPA ID:	OHR000139832
Mailing address:	8740 ORION PLACE STE 100 COLUMBUS, OH 43240
Contact:	ROB LOWRY
Contact address:	8740 ORION PLACE STE 100 COLUMBUS, OH 43240
Contact country:	US
Contact telephone:	(614) 310-0176
Contact email:	RLOWRY@CECINC.COM
EPA Region:	05
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous

PROPOSED QUEENSGATE SOUTH (Continued) **1010329545**

waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	QUEENSGATE SOUTH REALTY LLC
Owner/operator address:	1020 KIELEY PL
	CINCINNATI, OH 45217
Owner/operator country:	US
Owner/operator telephone:	(513) 241-7789
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/26/2003
Owner/Op end date:	Not reported

Owner/operator name:	QUEENSGATE SOUTH REALTY LLC
Owner/operator address:	1020 KIELEY PL
	CINCINNATI, OH 45217
Owner/operator country:	US
Owner/operator telephone:	(513) 241-7789
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/26/2003
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Biennial Reports:

Last Biennial Reporting Year: 2007

Annual Waste Handled:

PROPOSED QUEENSGATE SOUTH (Continued) **1010329545**

Waste code: D008
Waste name: LEAD
Amount (Lbs): 75800

Violation Status: No violations found

H56
WSW
1/8-1/4
0.229 mi.
1210 ft.

MOSE COHEN & SONS, INC. **OH UST** **U004096625**
990 W 5TH ST **N/A**
CINCINNATI, OH 45203

Site 2 of 6 in cluster H

Relative:
Lower

Actual:
486 ft.

Facility:
Facility ID: 31004891
Facility Type: Gas Station
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W003240
Owner Name: MOSE COHEN & SONS, INC.
Owner Address: 990 W 5TH ST
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45203
Owner Phone: (513) 621-7080

Inspection:
Facility Id: 31004891
Inspection Id: 5/19/94
Code: 103
Permit Number: P00001
Inspection Type: Final

Permit:
Facility Id: 31004891
Permit Id: P00001
Permit Status: Expired
Issued Date: 4/7/1995
Lfd Permit Id: Not reported

UST:
Tank ID: T00001
Tank Status: REM
Tank Type: Steel
Capacity: 2000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: 1/1/1975
Date Removed: 6/1/1994

MOSE COHEN & SONS, INC. (Continued) **U004096625**

Date Last Used:	Not reported
Date Abandoned/Closed:	6/1/1994
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Other
Capacity:	1000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	6/1/1994
Date Last Used:	Not reported
Date Abandoned/Closed:	6/1/1994
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

H57 **MOSE COHEN & SONS, INC.** **OH LUST** **S101563189**
WSW **990 W 5TH ST** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.229 mi.
1210 ft. **Site 3 of 6 in cluster H**

Relative:
Lower

Actual:
486 ft.

LUST:

Release Number:	31004891-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000

H58 **895 W. MEHRING WAY IRON ORE TERMINAL** **ERNS** **97412494**
WSW **895 W. MEHRING WAY IRON ORE TERMINAL** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.232 mi.
1224 ft. **Site 4 of 6 in cluster H**

Relative:
Lower

Actual:
486 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

H59 **895 W. MEHRING WAY OHIO RIVER MM 472** **ERNS** **96487339**
WSW **895 W. MEHRING WAY OHIO RIVER MM 472** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.232 mi.
1224 ft. **Site 5 of 6 in cluster H**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
486 ft.

H60 **895 W. MEHRING WAY MM 472 //OHIO RIVER** **ERNS** **94401266**
WSW **895 W. MEHRING WAY MM 472 //OHIO RIVER** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.232 mi.
1224 ft. **Site 6 of 6 in cluster H**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
486 ft.

I61 **SUNOCO #0043-9208** **OH LUST** **1000561425**
NNW **901 W 8TH ST** **OH UST** **N/A**
1/8-1/4 **CINCINNATI, OH 45203**
0.233 mi.
1229 ft. **Site 1 of 3 in cluster I**

Relative:
Lower

Actual:
514 ft.

LUST:
Release Number: 31000569-N00001
Release Date: 9/9/2003
Facility Status: **Active**
LTF Status: 1 SUS/CON from regulated UST
FR Status: **TR2: Tier 2**
Priority: 2
Review Date: 7/18/2007

Release Number: 31000569-N00002
Release Date: 9/27/2004
Facility Status: **Active**
LTF Status: 1 SUS/CON from regulated UST
FR Status: **DIS: a release is disproved**
Priority: 2
Review Date: 11/8/2004

Facility:

Facility ID:	31000569
Facility Type:	Gas Station
24 Hour Emergency Contact:	SUNOCO SECURITY
24 Hour Emergency Phon:	(800)786-2255
Number Of Tanks On Site:	3
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	Yes
Owner Id:	W022602
Owner Name:	GOCO INC
Owner Address:	901 W 8TH ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45207
Owner Phone:	(513)421-9273

SUNOCO #0043-9208 (Continued) **1000561425**

UST:

Tank ID:	T00001
Tank Status:	**Currently In Use**
Tank Type:	Cathodically Protected Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	6/1/1982
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Impressed Current
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	Impressed Current
Piping Material:	Cathodically Protected
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00002
Tank Status:	**Currently In Use**
Tank Type:	Cathodically Protected Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	6/1/1982
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Impressed Current
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	Impressed Current
Piping Material:	Cathodically Protected
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00003
Tank Status:	**Currently In Use**
Tank Type:	Cathodically Protected Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	6/1/1982
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported

SUNOCO #0043-9208 (Continued) **1000561425**

Corrosion Protection Tank:	Impressed Current
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	Impressed Current
Piping Material:	Cathodically Protected
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

62
SE
1/8-1/4
0.237 mi.
1249 ft.

UNK **OH SPILLS** **S105730045**
750 W THIRD ST (NEAR) **N/A**
CINCINNATI, OH

Relative:
Lower

Actual:
500 ft.

SPILLS:

Spill No.:	0203-31-0828
Spill Year:	2002
Sequential Number:	Not reported
Date Spill Reported:	03/11/02
Spill Month:	3
Spill Number:	0828
Reporter Name:	RICK JONES
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	ORPHAN DRUMS

I63
NNW
1/8-1/4
0.237 mi.
1254 ft.

MARTEN TRANSPORT PF **OH SPILLS** **S108970296**
911 W 8TH ST **N/A**
CINCINNATI, OH

Site 2 of 3 in cluster I

Relative:
Lower

Actual:
513 ft.

SPILLS:

Spill No.:	0712-31-4491
Spill Year:	2007
Sequential Number:	Not reported
Date Spill Reported:	12/8/2007 00:00:00
Spill Month:	12
Spill Number:	4491
Reporter Name:	DWAYNE HARTH
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1765
Lat/Long:	Not reported
Product Spilled Name:	DIESEL FUEL

I64 **FULLER FORD** **RCRA-SQG** **1000280580**
NNW **900 W 8TH ST** **FINDS** **OHD017634379**
1/8-1/4 **CINCINNATI, OH 45203**
0.241 mi.
1271 ft. **Site 3 of 3 in cluster I**

Relative:
Lower

Actual:
513 ft.

RCRA-SQG:

Date form received by agency:	03/16/1987
Facility name:	FULLER FORD
Facility address:	900 W 8TH ST CINCINNATI, OH 45203
EPA ID:	OHD017634379
Contact:	AL WURTZ
Contact address:	900 W 8TH ST CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 352-5800
Contact email:	Not reported
EPA Region:	05
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HAYHOW RALPH
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No

FULLER FORD (Continued) **1000280580**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

FULLER FORD (Continued) **1000280580**

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110004601191

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

65
NNW
1/8-1/4
0.249 mi.
1315 ft.

Relative:
Lower

Actual:
514 ft.

SUNOCO SERVICE STATION **FINDS 1004765347**
901 W EIGHTH ST **RCRA-CESQG OHD987022340**
CINCINNATI, OH 45203

FINDS:

Registry ID: 110004684725

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency: 09/09/1998
Facility name: SUNOCO SERVICE STATION
Facility address: 901 W EIGHTH ST
CINCINNATI, OH 45203
EPA ID: OHD987022340
Mailing address: 1801 MARKET ST 20/10 PC
PHILADELPHIA, PA 191031699

SUNOCO SERVICE STATION (Continued) **1004765347**

Contact:	SUSAN HICKEY
Contact address:	1801 MARKET ST 20/10 PC PHILADELPHIA, PA 191031699
Contact country:	US
Contact telephone:	(610) 941-9054
Contact email:	Not reported
EPA Region:	05
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	SUN CO INC (R&M)
Owner/operator address:	1801 MARKET ST PHILADELPHIA, PA 19103
Owner/operator country:	Not reported
Owner/operator telephone:	(215) 977-6801
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

SUNOCO SERVICE STATION (Continued) **1004765347**

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

J66 **1 QUEENSGATE** **ERNS** **99639644**
WNW **1 QUEENSGATE** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.250 mi.
1320 ft. **Site 1 of 3 in cluster J**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
494 ft.

J67 **IN SPILLS** **S104233360**
WNW **1 QUEENSGATE** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.250 mi.
1320 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
494 ft.

SPILL:

Facility ID:	199908200
Incident Date:	8/28/1999 0:16:00
Report Date:	8/30/1999 15:36:00
Material:	Anhydrous Ammonia
Spill Source:	Commercial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Other
Area Affected:	Not reported
Fish Killed:	Not reported
Public Intake:	Not reported

J68 **KING WRECKING CO INC** **OH SPILLS** **S105730644**
WNW **1 QUEENSGATE WAY** **N/A**
1/8-1/4 **CINCINNATI, OH**
0.250 mi.
1320 ft. **Site 3 of 3 in cluster J**

Relative:
Lower

Actual:
494 ft.

SPILLS:

Spill No.:	0105-31-1613
Spill Year:	2001
Sequential Number:	Not reported
Date Spill Reported:	05/08/01
Spill Month:	5
Spill Number:	1613

KING WRECKING CO INC (Continued) **S105730644**

Reporter Name:	RICK JONES
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1765
Lat/Long:	Not reported
Product Spilled Name:	COMPRESSOR OIL
Product Spilled Name:	AMMONIA, ANHYDROUS

Spill No.:	0105-31-1613
Spill Year:	2001
Sequential Number:	Not reported
Date Spill Reported:	05/08/01
Spill Month:	5
Spill Number:	1613
Reporter Name:	RICK JONES
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1765
Lat/Long:	Not reported
Product Spilled Name:	COMPRESSOR OIL
Product Spilled Name:	AMMONIA, ANHYDROUS

K69 **FORMER VICTORIA STATION** **OH LUST** **S105501739**
NNW **939 W 8TH ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.256 mi.
1350 ft. **Site 1 of 5 in cluster K**

Relative: LUST:
Lower
Release Number: 31010286-N00001
Release Date: Not reported
Actual: **Facility Status:** **Inactive**
510 ft. LTF Status: 1 SUS/CON from regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 6/20/2000

K70 **FORMER VICTORIA STATION** **OH UST** **U004091438**
NNW **939 W 8TH ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.256 mi.
1350 ft. **Site 2 of 5 in cluster K**

Relative: Facility:
Lower

Facility ID:	31010286
Facility Type:	Not reported
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W016007

FORMER VICTORIA STATION (Continued) **U004091438**

Owner Name:	FORMER VICTORIA STATION
Owner Address:	939 W 8TH ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

71
West
1/4-1/2
0.266 mi.
1404 ft.

CINCINNATI CITY OF HEALTH DEPT WHSE
1020 SARGENT ST
CINCINNATI, OH 45203

RCRA-SQG **1000467530**
FINDS **OHD987007366**

Relative:
Lower

Actual:
486 ft.

RCRA-SQG:

Date form received by agency:	11/16/1990
Facility name:	CINCINNATI CITY OF HEALTH DEPT WHSE
Facility address:	1020 SARGENT ST CINCINNATI, OH 45203
EPA ID:	OHD987007366
Mailing address:	3101 BURNET AVE CINCINNATI, OH 452293098
Contact:	ALFRED E OLVERSON
Contact address:	3101 BURNET AVE CINCINNATI, OH 452293098
Contact country:	US
Contact telephone:	(513) 353-3197
Contact email:	Not reported
EPA Region:	05
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

CINCINNATI CITY OF HEALTH DEPT WHSE (Continued) **1000467530**

Owner/Operator Summary:
Owner/operator name: CINCINNATI CITY OF
Owner/operator address: 801 PLUM ST
CINCINNATI, OH 45202
Owner/operator country: Not reported
Owner/operator telephone: (513) 352-3000
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: P008
Waste name: 4-AMINOPYRIDINE

Waste code: P021
Waste name: CALCIUM CYANIDE

Waste code: P108
Waste name: STRYCHNIDIN-10-ONE, & SALTS

Waste code: P122
Waste name: ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 10% (R,T)

Violation Status: No violations found

FINDS:

Registry ID: 110004675183

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CINCINNATI CITY OF HEALTH DEPT WHSE (Continued) **1000467530**

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

K72 **DESMOND PONTIAC** **OH UST** **U004089213**
NNW **950 W 8TH** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.272 mi.
1435 ft. **Site 3 of 5 in cluster K**

Relative:
Lower

Actual:
509 ft.

Facility:

Facility ID:	31010130
Facility Type:	Not reported
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W015851
Owner Name:	DESMOND PONTIAC
Owner Address:	950 W 8TH
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

K73 **WALT SWEENEY DOWNTOWN PONTIAC & GMC TRKS** **RCRA-SQG** **1000301320**
NNW **950 W 8TH ST** **FINDS** **OHD045563681**
1/4-1/2 **CINCINNATI, OH 45203**
0.272 mi.
1435 ft. **Site 4 of 5 in cluster K**

Relative:
Lower

Actual:
509 ft.

RCRA-SQG:

Date form received by agency:	06/18/1992
Facility name:	SWEENEY WALT PONTIAC
Facility address:	950 W 8TH ST CINCINNATI, OH 45203
EPA ID:	OHD045563681
Contact:	TOM WILEY
Contact address:	950 W 8TH ST CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 621-4888
Contact email:	Not reported
EPA Region:	05
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	WALT SWEENEY
Owner/operator address:	950 W 8TH ST AND FREEMAN AVE CINCINNATI, OH 45203
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 621-4888
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No

WALT SWEENEY DOWNTOWN PONTIAC & GMC TRKS (Continued) **1000301320**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110004610886

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are

WALT SWEENEY DOWNTOWN PONTIAC & GMC TRKS (Continued) **1000301320**

maintained in programmatic databases.

K74
NNW
1/4-1/2
0.272 mi.
1435 ft.

DESMOND PONTIAC
950 W 8TH
CINCINNATI, OH 45203

OH LUST **S104267189**
N/A

Site 5 of 5 in cluster K

Relative:
Lower

Actual:
509 ft.

LUST:

Release Number:	31010130-N00001
Release Date:	4/15/1991
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	11/10/1992

75
SSE
1/4-1/2
0.274 mi.
1448 ft.

MSD
62 GUEST ST.
CINCINNATI, OH

OH SPILLS **S106334186**
N/A

Relative:
Lower

Actual:
489 ft.

SPILLS:

Spill No.:	9007-31-3626
Spill Year:	1990
Sequential Number:	Not reported
Date Spill Reported:	07/24/90
Spill Month:	7
Spill Number:	3626
Reporter Name:	CO
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	SEWAGE

76
WSW
1/4-1/2
0.280 mi.
1477 ft.

RUMPKE MEDICAL WASTE THERM-TEC DESTRUCTION SERVICE
1020 MEHRING WAY
CINCINNATI, OH

OH SWF/LF **S105475424**
N/A

Relative:
Lower

Actual:
472 ft.

LF:

Facility Address:	Not reported
Facility ID:	31-01-011
Status:	CLOSED
Facility Phone:	5136515070
Last Update:	07/31/97
SWMD:	131
Type:	IW INCINERATOR
Closed Facility:	Yes
Class:	Not reported

RUMPKE MEDICAL WASTE THERM-TEC DESTRUCTION SERVICE (Continued) **S105475424**

Captive:	N
Docket #:	Not reported
Core Place ID:	0
Start Date:	Not reported
End Date:	Not reported
District Office:	Not reported
Phone Number:	Not reported
Organization ID:	Not reported
Org. Comments:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
Issue Date:	Not reported
Expire Date:	Not reported
Report ID:	Not reported
Registration #:	Not reported
Operator:	ANDREW SWEETMAN, RUMPKE MEDICAL
Operator Address:	10795 HUGHES ROAD
Operator City,St,Zip:	CINCINNATI, OH 45251
Operator Phone:	5136515070
Licence Holder:	RUMPKE CONTAINER SERVICE, INC.
Licence Holder Address:	10795 HUGHES ROAD
Licence Holder City,St,Zip:	CINCINNATI, OH 45251
Licence Holder Phone:	5136515070
Owner Name:	EDWARD MAKSTELL
Owner Address:	1050 MEHRING WAY
Owner City,St,Zip:	CINCINNATI, OH 45203
Owner Phone:	5136515070
Applicant Name:	Not reported
Applicant Address:	Not reported

L77 **IN SPILLS** **S106740618**
SSE **824 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.282 mi.
1488 ft. **Site 1 of 6 in cluster L**

Relative:
Lower

Actual:
475 ft.

SPILL:

Facility ID:	200212123
Incident Date:	12/19/2002 12:00:00
Report Date:	12/19/2002 13:49:00
Material:	CHEMICAL FIRE FOAM
Spill Source:	Commercial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Other
Area Affected:	SOIL
Fish Killed:	Not reported
Public Intake:	Not reported

Facility ID:	200212123
Incident Date:	12/19/2002 12:00:00
Report Date:	12/19/2002 13:49:00
Material:	UNDUSTRIAL PAINT
Spill Source:	Commercial

(Continued) **S106740618**

Recovered Amount: Not reported
Recovered Units: Not reported
Spilled Amount: Not reported
Spilled Units: Not reported
Contained: Not reported
Water Affected: Not reported
Spill Type: Other
Area Affected: SOIL
Fish Killed: Not reported
Public Intake: Not reported

L78 **HERATIGE ENVIRONMENTAL** **OH SPILLS** **S105730350**
SSE **824 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.282 mi.
1488 ft. **Site 2 of 6 in cluster L**

Relative: **Lower**

Actual: **475 ft.**

SPILLS:
Spill No.: 0212-31-4759
Spill Year: 2002
Sequential Number: Not reported
Date Spill Reported: 12/19/02
Spill Month: 12
Spill Number: 4759
Reporter Name: JIM LOVITZ
Confidential: No
District Code: SW
County Code: 31
Employee Number: 1768
Lat/Long: Not reported
Product Spilled Name: FIRE, HAZ WASTE D007

L79 **KUHR METALS CO *** **FINDS** **1006212820**
SSE **824 MEHRING WAY** **OH SPILLS** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.282 mi.
1488 ft. **Site 3 of 6 in cluster L**

Relative: **Lower**

Actual: **475 ft.**

FINDS:

Registry ID: 110009605793

Environmental Interest/Information System
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

SPILLS:
Spill No.: 8505-31-1598
Spill Year: 1985
Sequential Number: Not reported
Date Spill Reported: 05/17/85

KUHR METALS CO * (Continued) **1006212820**

Spill Month: 5
Spill Number: 1598
Reporter Name: FD
Confidential: No
District Code: SW
County Code: 31
Employee Number: 1766
Lat/Long: Not reported
Product Spilled Name: SMOKE
Product Spilled Name: PCB

Spill No.: 8505-31-1598
Spill Year: 1985
Sequential Number: Not reported
Date Spill Reported: 05/17/85
Spill Month: 5
Spill Number: 1598
Reporter Name: FD
Confidential: No
District Code: SW
County Code: 31
Employee Number: 1766
Lat/Long: Not reported
Product Spilled Name: SMOKE
Product Spilled Name: PCB

L80 **824 MEHRING WAY** **ERNS** **2001559469**
SSE **824 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.282 mi.
1488 ft. **Site 4 of 6 in cluster L**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
475 ft.

L81 **HERITAGE ENVIRONMENTAL** **FINDS** **1004767697**
SSE **824 MEHRING WAY** **RCRA-CESQG** **OHR000042465**
1/4-1/2 **CINCINNATI, OH 45203**
0.282 mi.
1488 ft. **Site 5 of 6 in cluster L**

Relative:
Lower

FINDS:

Registry ID: 110004737839

Actual:
475 ft.

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of

HERITAGE ENVIRONMENTAL (Continued) **1004767697**

common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency:	07/24/2000
Facility name:	HERITAGE ENVIRONMENTAL
Facility address:	824 MEHRING WAY CINCINNATI, OH 45203
EPA ID:	OHR000042465
Contact:	JAMES LOVITZ
Contact address:	824 MEHRING WAY CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 333-6400
Contact email:	Not reported
EPA Region:	05
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	LUHR FAMILY LIMITED PARTNERSHIP
Owner/operator address:	101 BENT WOOD CT CINCINNATI, OH 45241
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 745-0030
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No

HERITAGE ENVIRONMENTAL (Continued) **1004767697**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/10/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

L82 **824 MEHRING WAY** **ERNS** **2002632292**
SSE **824 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.282 mi.
1488 ft. **Site 6 of 6 in cluster L**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
475 ft.

---

83 **UNITED PARCEL SERVICE** **OH LUST** **S104776994**
ESE **640 W 3RD ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.296 mi.
1564 ft.

Relative:
Lower

Actual:
496 ft.

LUST:
Release Number: 31007317-N00001
Release Date: Not reported
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 3

UNITED PARCEL SERVICE (Continued) **S104776994**

Review Date: 6/20/2000

Release Number: 31007317-N00002
Release Date: Not reported
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 3
Review Date: 6/20/2000

Release Number: 31007317-N00003
Release Date: Not reported
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 3
Review Date: 6/20/2000

84
NW
1/4-1/2
0.300 mi.
1583 ft.

ANCHOR WHITE LEAD COMPANY
FREEMAN & 7TH STREET
CINCINNATI, OH 45203

CERC-NFRAP **1003872216**
OHD980611032

Relative:
Lower

Actual:
503 ft.

CERC-NFRAP:
Site ID: 0504639
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: ANCHOR WHITE LEAD CO
Alias Address: FREEMAN & 7TH ST
CINCINNATI, OH 45203
Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 09/01/1984
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 09/01/1984
Priority Level: NFRAP (No Futher Remedial Action Planned

85
NE
1/4-1/2
0.314 mi.
1657 ft.

CITYRAMA II
MOUND ST AT 9TH ST
CINCINNATI, OH

OH LUST **S104267350**
N/A

Relative:
Higher

Actual:
536 ft.

LUST:
Release Number: 31010302-N00001
Release Date: Not reported
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 3
Review Date: 6/20/2000

86
NW
1/4-1/2
0.328 mi.
1732 ft.

MAGNUS COMPANY INCORPORATED
1029 WEST 7TH STREET
CINCINNATI, OH 45203

OH DERR **1003872134**
CERC-NFRAP **OHD980280747**
OH VCP
OH INST CONTROL
OH ENG CONTROLS

Relative:
Lower

Actual:
503 ft.

DERR:
DERR ID: 531000478
District: SWDO
Alias: Not reported
Lat/Long: 39.102777779999997 -84.534444440000001
EPA ID: OHD980280747
Program: **Voluntary Action Program**
Contact Phone: (937) 285-6357

CERC-NFRAP:
Site ID: 0504520
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: MAGNUS CO INC
Alias Address: 1029 W 7TH ST
CINCINNATI, OH 45203
Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 09/25/1985
Priority Level: Low

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 04/25/1990
Priority Level: NFRAP (No Futher Remedial Action Planned

Action: ARCHIVE SITE

MAGNUS COMPANY INCORPORATED (Continued) **1003872134**

Date Started: Not reported
Date Completed: 04/25/1990
Priority Level: Not reported

OH VCP:
OH EPA District: SWDO
Alias Name: M&M Metals
Latitude: Not reported
Longitude: Not reported
Old Program Id: 09NFA341
Project Type: NFA 90 Day
DERR ID: 531000478

OH EPA District: SWDO
Alias Name: Magnus Co Inc, Cincinnati - W 7th St
Latitude: Not reported
Longitude: Not reported
Old Program Id: 07PAY043
Project Type: VAP PAYGO
DERR ID: 531000478

OH EPA District: SWDO
Alias Name: Magnus Metals
Latitude: Not reported
Longitude: Not reported
Old Program Id: 09NFA341
Project Type: NFA 90 Day
DERR ID: 531000478

INST CONTROL:
NFA Number: 09NFA341
Land Use: Commercial
Site Id: 531000478
Project Id: 531000478003
District: SWDO
Lat/Long: Not reported
Program Area: VAP
Project Type: NFA 90 Day
IC Type: Not reported
IC Mechanism: Not reported

ENGINEERING CONTROLS:
NFA Number: 09NFA341
Land Use: Commercial
Site Id: 531000478
Project Id: 531000478003
District: SWDO
Lat/Long: Not reported
Program Area: VAP
Project Type: NFA 90 Day

M87
NE
1/4-1/2
0.329 mi.
1739 ft.

FORMER STANDARD OIL
906 MOUND ST
CINCINNATI, OH 45201

OH LUST **S105401490**
N/A

Site 1 of 2 in cluster M

Relative:
Higher

Actual:
540 ft.

LUST:
Release Number: 31010517-N00001
Release Date: 12/7/2001
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 1/9/2002

M88
NE
1/4-1/2
0.329 mi.
1739 ft.

FORMER STANDARD OIL
906 MOUND ST
CINCINNATI, OH 45201

OH UST **U004091324**
N/A

Site 2 of 2 in cluster M

Relative:
Higher

Actual:
540 ft.

Facility:

Facility ID:	31010517
Facility Type:	Commercial
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W010761
Owner Name:	CITY OF CINCINNATI
Owner Address:	801 PLUM ST, RM 450 PUBLIC WORK
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45202
Owner Phone:	(513) 352-3218

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Bare Steel
Capacity:	1500
Content:	Unknown
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	1/1/1989
Date Removed:	10/25/2001
Date Last Used:	Not reported
Date Abandoned/Closed:	10/25/2001
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Not reported
Release Detection on Piping:	Not reported

N89
NNE
1/4-1/2
0.337 mi.
1780 ft.

INTERSTATE BRANDS CORP.
640 RICHMOND ST
CINCINNATI, OH 45203

OH LUST **U003095682**
OH UST **N/A**

Site 1 of 2 in cluster N

Relative:
Higher

Actual:
525 ft.

LUST:
Release Number: 31002004-N00001
Release Date: 8/20/1990
Facility Status: **Inactive**
LTF Status: 1 SUS/CON from regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 1/25/2006

Release Number: 31002004-N00002
Release Date: 10/23/1998
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 3
Review Date: 2/25/2004

Release Number: 31002004-N00003
Release Date: 7/30/2007
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 12/19/2007

Facility:

Facility ID:	31002004
Facility Type:	Commercial
24 Hour Emergency Contact:	LARRY ANTE
24 Hour Emergency Phon:	(513)562-3555
Number Of Tanks On Site:	Not reported
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W008855
Owner Name:	INTERSTATE BRANDS CORP
Owner Address:	697 N 4TH ST
Owner City:	COLUMBUS
Owner State:	OH
Owner Zip:	43215
Owner Phone:	(614)294-5375

Inspection:

Facility Id:	31002004
Inspection Id:	7/30/07
Code:	103
Permit Number:	P00002
Inspection Type:	Final

Permit:

Facility Id:	31002004
Permit Id:	P00001

INTERSTATE BRANDS CORP. (Continued) **U003095682**

Permit Status:	Closed
Issued Date:	12/16/1997
Lfd Permit Id:	05472
Facility Id:	31002004
Permit Id:	P00001
Permit Status:	Closed
Issued Date:	12/16/1997
Lfd Permit Id:	05472
Facility Id:	31002004
Permit Id:	P00002
Permit Status:	Closed
Issued Date:	7/12/2007
Lfd Permit Id:	13595

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Unknown
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	8/1/1990
Date Last Used:	Not reported
Date Abandoned/Closed:	8/1/1990
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported
Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Not reported
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	12/30/1997
Date Last Used:	Not reported
Date Abandoned/Closed:	12/30/1997
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Not reported

INTERSTATE BRANDS CORP. (Continued) **U003095682**

Release Detection on Piping:	Not reported
Tank ID:	T00003
Tank Status:	**REM**
Tank Type:	Other
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	12/30/1997
Date Last Used:	Not reported
Date Abandoned/Closed:	12/30/1997
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported
Tank ID:	T00004
Tank Status:	**REM**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1985
Date Removed:	7/28/2007
Date Last Used:	Not reported
Date Abandoned/Closed:	7/30/2007
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Suction: no valve at dispensers
Release Detection on Piping:	No Monitoring Suction/Gravity System

---

N90 **640 RICHMOND STREET** **ERNS 8861405**
NNE **640 RICHMOND STREET** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.337 mi.
1780 ft. **Site 2 of 2 in cluster N**

Relative:
Higher

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
525 ft.

O91
West
1/4-1/2
0.338 mi.
1784 ft.

INSPECTORATE AMERICA CORP
513 CARR ST
CINCINNATI, OH 45203

FINDS **1000467847**
RCRA-CESQG **OHD987012382**

Site 1 of 2 in cluster O

Relative:
Lower

Actual:
479 ft.

FINDS:

Registry ID: 110004677500

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency:	03/03/1992
Facility name:	INSPECTORATE AMERICA CORP
Facility address:	513 CARR ST CINCINNATI, OH 45203
EPA ID:	OHD987012382
Mailing address:	P.O. BOX 1367 CINCINNATI, OH 452011367
Contact:	ROBERT GRIM
Contact address:	P.O. BOX 1367 CINCINNATI, OH 452011367
Contact country:	US
Contact telephone:	(513) 241-0088
Contact email:	Not reported
EPA Region:	05
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

INSPECTORATE AMERICA CORP (Continued) **1000467847**

Owner/operator name: INSPECTORATE AMERICA CORP
Owner/operator address: 5050 TIMBER CREEK
HOUSTON, TX 77017
Owner/operator country: Not reported
Owner/operator telephone: (713) 944-2000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

O92
West
1/4-1/2
0.343 mi.
1809 ft.

RUMPKE / BMW MED-TEC
504 CARR ST
CINCINNATI, OH 45203

Site 2 of 2 in cluster O

FINDS 1001125196
RCRA-NonGen OHR000019364

Relative:
Lower

Actual:
477 ft.

FINDS:

Registry ID: 110004721301

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-NonGen:

Date form received by agency:	06/02/1999
Facility name:	RUMPKE / BMW MED-TEC
Facility address:	504 CARR ST CINCINNATI, OH 45203
EPA ID:	OHR000019364
Mailing address:	1020 MEHRING WAY CINCINNATI, OH 45203
Contact:	ANNE PRICE
Contact address:	1020 MEHRING WAY CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 651-5070
Contact email:	Not reported
EPA Region:	05
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RUMPKE
Owner/operator address:	10795 HUGHES RD CINCINNATI, OH 45251
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 851-0122
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	ED MAKSTELL - PROPERTY
Owner/operator address:	1050 MEHRING WAY

RUMPKE / BMW MED-TEC (Continued) **1001125196**

CINCINNATI, OH 45203
Owner/operator country: Not reported
Owner/operator telephone: N/A
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D006
Waste name: CADMIUM

Waste code: D008
Waste name: LEAD

Facility Has Received Notices of Violations:
Regulation violated: SR - 3745-52-11
Area of violation: Generators - General
Date violation determined: 10/08/1996
Date achieved compliance: 03/24/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 3745-65-71 thru 77
Area of violation: Generators - Manifest
Date violation determined: 10/08/1996
Date achieved compliance: 03/24/1997
Violation lead agency: State

RUMPKE / BMW MED-TEC (Continued) **1001125196**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 3745-65-50
Area of violation: Generators - Pre-transport
Date violation determined: 10/08/1996
Date achieved compliance: 03/24/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 3734.02(F)
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 10/08/1996
Date achieved compliance: 03/24/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 3745-66-15
Area of violation: Generators - Pre-transport
Date violation determined: 10/08/1996
Date achieved compliance: 03/24/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 3745-65-16
Area of violation: Generators - Pre-transport
Date violation determined: 10/08/1996
Date achieved compliance: 03/24/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

RUMPKE / BMW MED-TEC (Continued) **1001125196**

Enforcement action date: 02/26/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 03/24/1997
Evaluation lead agency: State

Evaluation date: 10/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/24/1997
Evaluation lead agency: State

Evaluation date: 10/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 03/24/1997
Evaluation lead agency: State

Evaluation date: 10/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/24/1997
Evaluation lead agency: State

P93 **MAACO AUTO PAINTING** **OH SPILLS** **S102888682**
WNW **701 DALTON, QUEENS GATE AREA** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.346 mi.
1828 ft. **Site 1 of 2 in cluster P**

Relative:
Lower

Actual:
497 ft.

SPILLS:
Spill No.: 9201-31-0318
Spill Year: 1992
Sequential Number: Not reported
Date Spill Reported: 01/28/92
Spill Month: 1
Spill Number: 0318
Reporter Name: Not reported
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: DRUMS

P94 **COLLISION CARE OF CINCINNATI LLC** **FINDS** **1000175061**
WNW **701 DALTON AVE** **RCRA-CESQG** **OHD089705420**
1/4-1/2 **CINCINNATI, OH 45203**
0.346 mi.
1828 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
497 ft.

FINDS:

Registry ID: 110004627226

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-CESQG:

Date form received by agency:	06/20/2007
Facility name:	COLLISION CARE OF CINCINNATI LLC
Facility address:	701 DALTON AVE CINCINNATI, OH 45203
EPA ID:	OHD089705420
Mailing address:	8849 COLUMBIA RD MAINEVILLE, OH 45039
Contact:	JAMES K FOSTER
Contact address:	8849 COLUMBIA RD MAINEVILLE, OH 45039
Contact country:	US
Contact telephone:	(513) 205-9856
Contact email:	KEITH.FOSTER@CARSTARSWO.COM
EPA Region:	05
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	JAMES K FOSTER
Owner/operator address:	8849 COLUMBIA RD MAINEVILLE, OH 45039
Owner/operator country:	US
Owner/operator telephone:	(513) 205-9856
Legal status:	Private

COLLISION CARE OF CINCINNATI LLC (Continued) **1000175061**

Owner/Operator Type:	Operator
Owner/Op start date:	05/14/2007
Owner/Op end date:	Not reported
Owner/operator name:	RICHTER REALTY COMPANY INC
Owner/operator address:	2560 ST RT 132 NEW RICHMOND, OH 45157
Owner/operator country:	US
Owner/operator telephone:	(513) 553-4242
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1965
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	11/03/1992
Facility name:	COLLISION CARE OF CINCINNATI LLC
Site name:	MAACO
Classification:	Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D035
Waste name:	METHYL ETHYL KETONE
Waste code:	F003
Waste name:	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT

COLLISION CARE OF CINCINNATI LLC (Continued) **1000175061**

NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/05/1992
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Q95 **IN SPILLS** **S106199611**
West **MEHRING WAY / CARR ST** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.353 mi.
1865 ft. **Site 1 of 3 in cluster Q**

Relative:
Lower

Actual:
467 ft.

SPILL:
Facility ID: 200311046
Incident Date: 11/6/2003 11:20:10
Report Date: 11/6/2003 11:47:10
Material: HYDRAULIC OIL
Spill Source: Industrial
Recovered Amount: Not reported
Recovered Units: Not reported
Spilled Amount: 1
Spilled Units: Gallons
Contained: Not reported
Water Affected: OHIO RIVER
Spill Type: Other
Area Affected: OHIO RIVER
Fish Killed: Not reported
Public Intake: Not reported

Q96
West
1/4-1/2
0.355 mi.
1874 ft.

DP&L — **OH SPILLS** — **S103778878**
CINCINNATI WATER WORKS — **N/A**
CINCINNATI, OH

Site 2 of 3 in cluster Q

Relative:
Lower

Actual:
464 ft.

SPILLS:

Spill No.:	9801-8-0301
Spill Year:	1998
Sequential Number:	Not reported
Date Spill Reported:	01/25/98
Spill Month:	1
Spill Number:	0301
Reporter Name:	JEFF SWERTFEGER
Confidential:	No
District Code:	SW
County Code:	8
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	WATER AND BOTTOM ASH

Q97
West
1/4-1/2
0.355 mi.
1874 ft.

RUMPKE — **OH SPILLS** — **S102900974**
RUMPKE TRUCK DEPOT — **N/A**
CINCINNATI, OH

Site 3 of 3 in cluster Q

Relative:
Lower

Actual:
464 ft.

SPILLS:

Spill No.:	9708-31-3580
Spill Year:	1997
Sequential Number:	Not reported
Date Spill Reported:	08/30/97
Spill Month:	8
Spill Number:	3580
Reporter Name:	DAVE MEYERS
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	DIESEL FUEL

98
WNW
1/4-1/2
0.372 mi.
1966 ft.

SKEFFINGTON FORMAL WEAR — **FINDS** — **1000467697**
711 CARR ST — **RCRA-NonGen** — **OHD987009057**
CINCINNATI, OH 45203

Relative:
Lower

Actual:
502 ft.

FINDS:

Registry ID: 110004676468

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

SKEFFINGTON FORMAL WEAR (Continued) **1000467697**

corrective action activities required under RCRA.

RCRA-NonGen:
Date form received by agency: 08/29/1997
Facility name: SKEFFINGTON FORMAL WEAR
Facility address: 711 CARR ST
CINCINNATI, OH 45203
EPA ID: OHD987009057
Contact: EARL LATTIMORE
Contact address: 711 CARR ST
CINCINNATI, OH 45203
Contact country: US
Contact telephone: (513) 621-3004
Contact email: Not reported
EPA Region: 05
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: PATRICE JOSEPH E
Owner/operator address: ADDRESS NOT REPORTED
NOT REPORTED, OH 00000
Owner/operator country: Not reported
Owner/operator telephone: (000) 000-0000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

SKEFFINGTON FORMAL WEAR (Continued) **1000467697**

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/27/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

R99 **T.K.F. INC** **FINDS** **1004766476**
SSE **726 MEHRING WAY** **RCRA-CESQG** **OHR000008359**
1/4-1/2 **CINCINNATI, OH 45203**
0.374 mi.
1973 ft. **Site 1 of 3 in cluster R**

Relative:
Lower

Actual:
489 ft.

FINDS:

Registry ID: 110004713338

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-CESQG:
Date form received by agency: 11/15/1995
Facility name: T.K.F. INC
Facility address: 726 MEHRING WAY
CINCINNATI, OH 45203
EPA ID: OHR000008359
Contact: TIM METZ
Contact address: 726 MEHRING WAY
CINCINNATI, OH 45203
Contact country: US
Contact telephone: (513) 241-5910
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any

T.K.F. INC (Continued) **1004766476**

time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: RICHARD L EUBANKS
- Owner/operator address: 1914 FORTSIDE CIRCLE FT MITCHELL, KY 41011
- Owner/operator country: Not reported
- Owner/operator telephone: (513) 241-5910
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: Unknown
- Mixed waste (haz. and radioactive): Unknown
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: Unknown
- Furnace exemption: Unknown
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No
- Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
- Waste code: D001
- Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- Waste code: F003
- Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

T.K.F. INC (Continued) **1004766476**

Violation Status: No violations found

R100 **OHIO RIVER CO** **OH LUST** **S100646735**
SSE **725 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH 45201**
0.375 mi.
1978 ft. **Site 2 of 3 in cluster R**

Relative:
Lower

Actual:
489 ft.

LUST:
Release Number: 31010079-N00001
Release Date: Not reported
Facility Status: **Inactive**
LTF Status: 1 SUS/CON from regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 6/20/2000

R101 **OHIO RIVER CO** **OH UST** **U004097866**
SSE **725 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH 45201**
0.375 mi.
1978 ft. **Site 3 of 3 in cluster R**

Relative:
Lower

Actual:
489 ft.

Facility:

Facility ID:	31010079
Facility Type:	Not reported
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W015800
Owner Name:	OHIO RIVER CO
Owner Address:	725 MEHRING WAY
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45201
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported

OHIO RIVER CO (Continued) **U004097866**

Corrosion Protection Piping: Not reported
Piping Material: Not reported
Piping Type: Not reported
Release Detection on Piping: Not reported

S102 **THIRD STREET ENTERPRISES INC.** **OH LUST** **S101563195**
ESE **514 W 3RD ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.381 mi.
2014 ft. **Site 1 of 3 in cluster S**

Relative:
Lower

Actual:
495 ft.

LUST:
Release Number: 31002347-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000

S103 **THIRD STREET ENTERPRISES INC.** **OH UST** **U004102406**
ESE **514 W 3RD ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.381 mi.
2014 ft. **Site 2 of 3 in cluster S**

Relative:
Lower

Actual:
495 ft.

Facility:
Facility ID: 31002347
Facility Type: Gas Station
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W002234
Owner Name: THIRD STREET ENTERPRISES INC.
Owner Address: 514 W 3RD ST
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45202
Owner Phone: ( ) -

Inspection:
Facility Id: 31002347
Inspection Id: 5/11/94
Code: 103
Permit Number: P00001
Inspection Type: Final

Permit:
Facility Id: 31002347
Permit Id: P00001
Permit Status: Expired

THIRD STREET ENTERPRISES INC. (Continued) **U004102406**

Issued Date: 10/19/1995
Lfd Permit Id: Not reported

UST:
Tank ID: T00001
Tank Status: **REM**
Tank Type: Steel
Capacity: 8000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: Not reported
Date Removed: 6/23/1994
Date Last Used: Not reported
Date Abandoned/Closed: 6/23/1994
Corrosion Protection Tank: Not reported
Release Detection on Tank: Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping: Not reported
Piping Material: Bare Steel
Piping Type: Pressure
Release Detection on Piping: Not reported

Tank ID: T00002
Tank Status: **REM**
Tank Type: Steel
Capacity: 8000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: Not reported
Date Removed: 6/23/1994
Date Last Used: Not reported
Date Abandoned/Closed: 6/23/1994
Corrosion Protection Tank: Not reported
Release Detection on Tank: Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping: Not reported
Piping Material: Bare Steel
Piping Type: Pressure
Release Detection on Piping: Not reported

Tank ID: T00003
Tank Status: **REM**
Tank Type: Steel
Capacity: 8000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: Not reported

THIRD STREET ENTERPRISES INC. (Continued) **U004102406**

Date Removed:	6/23/1994
Date Last Used:	Not reported
Date Abandoned/Closed:	6/23/1994
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00004
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	6000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	6/23/1994
Date Last Used:	Not reported
Date Abandoned/Closed:	6/23/1994
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00005
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	6000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	6/23/1994
Date Last Used:	Not reported
Date Abandoned/Closed:	6/23/1994
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

S104
ESE
1/4-1/2
0.384 mi.
2028 ft.

ARTEMUS REGIONAL TRANSPORT
512 W 3RD
CINCINNATI, OH 45202

OH UST **U004084356**
N/A

Site 3 of 3 in cluster S

Relative:
Lower

Actual:
496 ft.

Facility:

Facility ID:	31010272
Facility Type:	Not reported
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	Yes
Owner Id:	W015993
Owner Name:	ARTEMUS REGIONAL TRANSPORT
Owner Address:	512 W 3RD
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45202
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

105
West
1/4-1/2
0.385 mi.
2031 ft.

DUBOIS CHEMICAL (FRONT ST. PLT)
1120 W FRONT ST
CINCINNATI, OH 45202

CERC-NFRAP **1003872170**
OHD980510028

Relative:
Lower

Actual:
471 ft.

CERC-NFRAP:

Site ID:	0504574
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP

DUBOIS CHEMICAL (FRONT ST. PLT) (Continued) **1003872170**

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: FRONT ST PLT
Alias Address: Not reported
OH
Site Description: Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 04/01/1979
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 06/23/1987
Priority Level: Low

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 08/27/1990
Priority Level: NFRAP (No Futher Remedial Action Planned

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 08/27/1990
Priority Level: Not reported

T106 **CITY OF CINCINNATI** **OH LUST** **S104776992**
East **400 JOHN ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.386 mi.
2039 ft. **Site 1 of 4 in cluster T**

Relative:
Higher

Actual:
531 ft.

LUST:
Release Number: 31007199-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000

T107 **CITY OF CINCINNATI** **OH UST** **U004087350**
East **400 JOHN ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.386 mi.
2039 ft. **Site 2 of 4 in cluster T**

Relative:
Higher

Actual:
531 ft.

Facility:
Facility ID: 31007199
Facility Type: Local Government
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No

CITY OF CINCINNATI (Continued) **U004087350**

Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W011000
Owner Name: CITY OF CINCINNATI, SANITATION
Owner Address: 1106 BATES AVE
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45225
Owner Phone: (513) 352-3581

Inspection:
Facility Id: 31007199
Inspection Id: 8/10/92
Code: 103
Permit Number: P00001
Inspection Type: Final

UST:
Tank ID: T00001
Tank Status: REM
Tank Type: Other
Capacity: Not reported
Content: Unknown
CAS #: Not reported
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: Not reported
Date Removed: 1/1/1992
Date Last Used: Not reported
Date Abandoned/Closed: 1/1/1992
Corrosion Protection Tank: Not reported
Release Detection on Tank: Not reported
Corrosion Protection Piping: Not reported
Piping Material: Not Marked on Form
Piping Type: Not reported
Release Detection on Piping: Not reported

T108 **SANITATION** **OH LUST** **S104267367**
East **351 JOHN ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.388 mi.
2051 ft. **Site 3 of 4 in cluster T**

Relative:
Higher

Actual:
531 ft.

LUST:
Release Number: 31000693-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 1 SUS/CON from regulated UST
FR Status: NFA: No Further Action
Priority: 2
Review Date: 6/20/2000

T109
East
1/4-1/2
0.388 mi.
2051 ft.

SANITATION
351 JOHN ST
CINCINNATI, OH 45202

OH UST **U004100499**
N/A

Site 4 of 4 in cluster T

Relative:
Higher

Actual:
531 ft.

Facility:

Facility ID:	31000693
Facility Type:	Contractor
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W010997
Owner Name:	CITY OF CINCINNATI/FLEET SVC DIV
Owner Address:	1106 BATES AVE
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45225
Owner Phone:	(513)352-5454

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	20000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	9/1/1980
Date Removed:	2/12/1998
Date Last Used:	Not reported
Date Abandoned/Closed:	2/12/1998
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	9/1/1980
Date Removed:	2/12/1998
Date Last Used:	Not reported
Date Abandoned/Closed:	2/12/1998

SANITATION (Continued) **U004100499**

Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	20000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	9/1/1980
Date Removed:	2/12/1998
Date Last Used:	Not reported
Date Abandoned/Closed:	2/12/1998
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

U110 **APEX ENVIRONMENTAL RESOURCES** **FINDS 1000833891**
SE **700 W PETE ROSE WAY** **RCRA-NonGen OHD987047222**
1/4-1/2 **CINCINNATI, OH 45203**
0.391 mi.
2066 ft. **Site 1 of 3 in cluster U**

Relative:
Lower

Actual:
486 ft.

FINDS:

Registry ID: 110004699577

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-NonGen:
Date form received by agency: 10/02/1992

APEX ENVIRONMENTAL RESOURCES (Continued) **1000833891**

Facility name:	APEX ENVIRONMENTAL RESOURCES
Facility address:	700 W PETE ROSE WAY CINCINNATI, OH 45203
EPA ID:	OHD987047222
Contact:	MICHAEL SCHWEITZER
Contact address:	700 W PETE ROSE WAY CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 241-9050
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SCHWEITZER ROY B
Owner/operator address:	700 W PETE ROSE WAY CINCINNATI, OH 45203
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 241-9050
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Violation Status: No violations found

U111 **HORIZON ENVIRONMENTAL GROUP** **FINDS 1004766286**
SE **700 W PETE ROSE WAY** **RCRA-CESQG OHR000001883**
1/4-1/2 **CINCINNATI, OH 45203**
0.391 mi.
2066 ft. **Site 2 of 3 in cluster U**

Relative:
Lower

Actual:
486 ft.

FINDS:

Registry ID: 110009428459

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

HORIZON ENVIRONMENTAL GROUP (Continued) **1004766286**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency:	04/03/1995
Facility name:	HORIZON ENVIRONMENTAL GROUP
Facility address:	700 W PETE ROSE WAY CINCINNATI, OH 45203
EPA ID:	OHR000001883
Contact:	DANIEL EAPEN
Contact address:	700 W PETE ROSE WAY CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 241-0608
Contact email:	Not reported
EPA Region:	05
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	LONGWORTH HALL ASSOCIATES
Owner/operator address:	700 W PETE ROSE WAY CINCINNATI, OH 45203
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 721-6000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown

HORIZON ENVIRONMENTAL GROUP (Continued) **1004766286**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

U112 **UNK** **OH SPILLS** **S105730758**
SE **700 WEST PETE ROSE WAY** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.391 mi.
2066 ft. **Site 3 of 3 in cluster U**

Relative:
Lower

Actual:
486 ft.

SPILLS:

Spill No.:	0109-31-3349
Spill Year:	2001
Sequential Number:	Not reported
Date Spill Reported:	09/05/01
Spill Month:	9
Spill Number:	3349
Reporter Name:	JODI BILLMAN
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	ORPHAN DRUM

V113 **ADP, INC.** **OH LUST** **U000689815**
ENE **500 W 7TH ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.395 mi.
2087 ft. **Site 1 of 2 in cluster V**

Relative:
Higher

Actual:
542 ft.

LUST:
Release Number: 31001673-N00002
Release Date: 11/29/2001
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 12/28/2001

Release Number: 31001673-N00001
Release Date: 11/10/1992
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 2
Review Date: 12/27/2001

V114 **ADP, INC.** **OH UST** **U004083757**
ENE **500 W 7TH ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.395 mi.
2087 ft. **Site 2 of 2 in cluster V**

Relative:
Higher

Actual:
542 ft.

Facility:
Facility ID: 31001673
Facility Type: Commercial
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W000217
Owner Name: ADP, INC.
Owner Address: 1 ADP BLVD
Owner City: ROSELAND
Owner State: NJ
Owner Zip: 07068
Owner Phone: (201) 994-5000

Inspection:
Facility Id: 31001673
Inspection Id: 10/22/92
Code: 103
Permit Number: P00001
Inspection Type: Final

UST:
Tank ID: T00001
Tank Status: **REM**
Tank Type: Steel
Capacity: 10000
Content: Diesel

ADP, INC. (Continued) **U004083757**

CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	7/1/1980
Date Removed:	4/9/1999
Date Last Used:	Not reported
Date Abandoned/Closed:	4/9/1999
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	7/1/1980
Date Removed:	10/22/1992
Date Last Used:	Not reported
Date Abandoned/Closed:	10/22/1992
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**REM**
Tank Type:	Steel
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	7/1/1980
Date Removed:	10/22/1992
Date Last Used:	Not reported
Date Abandoned/Closed:	10/22/1992
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Not reported

115 West 1/4-1/2 0.400 mi. 2111 ft.

MOSE COHEN & SONS
SIXTH & HARRIET
CINCINNATI, OH 45203

FINDS 1000990948
RCRA-NonGen OHR000002634

Relative: Lower

Actual: 486 ft.

FINDS:

Registry ID: 110007716560

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-NonGen:

Date form received by agency:	03/01/1996
Facility name:	MOSE COHEN & SONS
Facility address:	SIXTH & HARRIET CINCINNATI, OH 45203
EPA ID:	OHR000002634
Mailing address:	990 W FIFTH ST CINCINNATI, OH 45203
Contact:	JACQUE RENN
Contact address:	990 W FIFTH ST CINCINNATI, OH 45203
Contact country:	US
Contact telephone:	(513) 621-7080
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MOSE COHEN & SONS INC
Owner/operator address:	990 W FIFTH ST CINCINNATI, OH 45203
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 621-7080
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No

MOSE COHEN & SONS (Continued) **1000990948**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

W116 **FOXMEYER** **OH SPILLS** **S102880961**
NNW **925 FREEMAN AVE. / GEST** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.407 mi.
2151 ft. **Site 1 of 4 in cluster W**

Relative: **Lower**

Actual: **506 ft.**

SPILLS:
Spill No.: 9008-31-3838
Spill Year: 1990
Sequential Number: Not reported
Date Spill Reported: 08/06/90
Spill Month: 8
Spill Number: 3838
Reporter Name: FD
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: PHENOL

---

117 **GOODMAN IB MFG CO INC** **FINDS** **1004763692**
ESE **314 JOHN ST** **RCRA-CESQG** **OHD004251807**
1/4-1/2 **CINCINNATI, OH 45202**
0.409 mi.
2158 ft.

Relative: **Lower**

Actual: **511 ft.**

FINDS:

Registry ID: 110004594083

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly

GOODMAN IB MFG CO INC (Continued) **1004763692**

shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-CESQG:

Date form received by agency:	09/05/1989
Facility name:	GOODMAN IB MFG CO INC
Facility address:	314 JOHN ST CINCINNATI, OH 45202
EPA ID:	OHD004251807
Contact:	RUSS FRANZ
Contact address:	314 JOHN ST CINCINNATI, OH 45202
Contact country:	US
Contact telephone:	(513) 241-1206
Contact email:	Not reported
EPA Region:	05
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	GOODMAN IB MFG CO INC
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

GOODMAN IB MFG CO INC (Continued) **1004763692**

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

W118 **FOXMEYER DRUG CO** **RCRA-SQG 1000467624**
NNW **925 FREEMAN AVE** **FINDS OHD987008307**
1/4-1/2 **CINCINNATI, OH 45203**
0.420 mi.
2220 ft. **Site 2 of 4 in cluster W**

Relative:
Lower

Actual:
506 ft.

RCRA-SQG:
Date form received by agency: 12/13/1990
Facility name: FOXMEYER DRUG CO
Facility address: 925 FREEMAN AVE
CINCINNATI, OH 45203
EPA ID: OHD987008307
Contact: JOHN BRADY
Contact address: 925 FREEMAN AVE
CINCINNATI, OH 45203
Contact country: US
Contact telephone: (513) 721-2940
Contact email: Not reported
EPA Region: 05
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

FOXMEYER DRUG CO (Continued) **1000467624**

Owner/Operator Summary:
- Owner/operator name: NATIONAL INTER GROUP
- Owner/operator address: NOT REPORTED
  NOT REPORTED, OH 00000
- Owner/operator country: Not reported
- Owner/operator telephone: (000) 000-0000
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: Unknown
- Mixed waste (haz. and radioactive): Unknown
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: Unknown
- Furnace exemption: Unknown
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No
- Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
- Waste code: D001
- Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- Waste code: U188
- Waste name: PHENOL

Violation Status: No violations found

FINDS:

Registry ID: 110004675851

FOXMEYER DRUG CO (Continued) **1000467624**

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

W119 **FOX MEYER CORP.** **OH UST** **U004091522**
NNW **925 FREEMAN AVE** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.420 mi.
2220 ft. **Site 3 of 4 in cluster W**

Relative:
Lower

Actual:
506 ft.

Facility:

Facility ID:	31001660
Facility Type:	Commercial
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W001455
Owner Name:	FOX MEYER CORP.
Owner Address:	925 FREEMAN AVE
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	(513) 721-2940

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Other
Capacity:	Not reported
Content:	Unknown
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	12/3/1991
Date Last Used:	Not reported
Date Abandoned/Closed:	12/3/1991
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported

FOX MEYER CORP. (Continued) **U004091522**

Piping Material: Unknown
Piping Type: Not reported
Release Detection on Piping: Not reported

W120 **FOX MEYER CORP.** **OH LUST** **S104518320**
NNW **925 FREEMAN AVE** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.420 mi.
2220 ft. **Site 4 of 4 in cluster W**

Relative:
Lower

Actual:
506 ft.

LUST:
Release Number: 31001660-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000

X121 **CSX TRANSPORTATION** **OH LUST** **S104267157**
WNW **BUDD / DALTON** **N/A**
1/4-1/2 **CINCINNATI, OH 45201**
0.431 mi.
2277 ft. **Site 1 of 3 in cluster X**

Relative:
Lower

Actual:
496 ft.

LUST:
Release Number: 31010101-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 1 SUS/CON from regulated UST
FR Status: NFA: No Further Action
Priority: 2
Review Date: 6/20/2000

Y122 **CST MGMT CO.** **OH LUST** **S100646884**
NW **1150 W 8TH ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.435 mi.
2299 ft. **Site 1 of 2 in cluster Y**

Relative:
Lower

Actual:
501 ft.

LUST:
Release Number: 31000028-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000

Y123 **CST MGMT CO.** **OH UST** **U004088592**
NW **1150 W 8TH ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.435 mi.
2299 ft. **Site 2 of 2 in cluster Y**

Relative:
Lower

Actual:
501 ft.

Facility:

Facility ID:	31000028
Facility Type:	Gas Station
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W010583
Owner Name:	CST MGR CO.
Owner Address:	1150 W 8TH ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45203
Owner Phone:	(513) 721-4200

Inspection:

Facility Id:	31000028
Inspection Id:	1/19/93
Code:	103
Permit Number:	P00001
Inspection Type:	Final

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Other
Capacity:	Not reported
Content:	Unknown
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/19/1993
Date Last Used:	Not reported
Date Abandoned/Closed:	1/19/1993
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**REM**
Tank Type:	Other
Capacity:	Not reported
Content:	Unknown
CAS #:	Not reported

CST MGMT CO. (Continued) **U004088592**

Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/19/1993
Date Last Used:	Not reported
Date Abandoned/Closed:	1/19/1993
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**REM**
Tank Type:	Other
Capacity:	Not reported
Content:	Unknown
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/19/1993
Date Last Used:	Not reported
Date Abandoned/Closed:	1/19/1993
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

X124 **DALTON MARATHON LLC** **OH UST** **U000892341**
WNW **700 DALTON AVE** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.440 mi.
2322 ft. **Site 2 of 3 in cluster X**

Relative: Facility:
Lower

Facility ID:	31000729
Facility Type:	Gas Station
Actual: 24 Hour Emergency Contact:	RUTH HARVEY
495 ft. 24 Hour Emergency Phon:	(513)659-5181
Number Of Tanks On Site:	5
Local Fire Department:	CINCINNATI FIRE DEPARTMENT
Delegated Authority:	Yes
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W023008
Owner Name:	DALTON MARATHON LLC
Owner Address:	700 DALTON AVE
Owner City:	CINCINNATI
Owner State:	OH

DALTON MARATHON LLC (Continued) **U000892341**

Owner Zip: 45203
Owner Phone: (513)421-7800

Inspection:
Facility Id: 31000729
Inspection Id: 1/25/99
Code: 501
Permit Number: P00001
Inspection Type: Final

Facility Id: 31000729
Inspection Id: 8/26/92
Code: 503
Permit Number: P00001
Inspection Type: Final

Permit:
Facility Id: 31000729
Permit Id: P00001
Permit Status: Closed
Issued Date: 1/22/1999
Lfd Permit Id: Not reported

UST:
Tank ID: T00001
Tank Status: **Currently In Use**
Tank Type: Fiberglass Reinforced Plastic
Capacity: 5000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: Yes
Spill Device Installed: Yes
AST/UST: UST
Installation Date: 1/1/1965
Date Removed: Not reported
Date Last Used: Not reported
Date Abandoned/Closed: Not reported
Corrosion Protection Tank: None Required
Release Detection on Tank: Automatic Tank Gauging
Corrosion Protection Piping: None Required
Piping Material: Fiberglass Reinforced Plastic
Piping Type: Pressure
Release Detection on Piping: Electronic Line Leak Detector

Tank ID: T00002
Tank Status: **Currently In Use**
Tank Type: Fiberglass Reinforced Plastic
Capacity: 5000
Content: Gasoline
CAS #: 8006-61-9
Regulated: Yes
Overfill Device Installed: Yes
Spill Device Installed: Yes
AST/UST: UST
Installation Date: 1/1/1965
Date Removed: Not reported

DALTON MARATHON LLC (Continued) **U000892341**

Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00003
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	5000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1965
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00004
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	5000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1965
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

Tank ID:	T00005
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	10000
Content:	Diesel
CAS #:	68334-30-5

DALTON MARATHON LLC (Continued) **U000892341**

Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1970
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector

X125 **MARATHON GAS STATION** **OH SPILLS** **S106315902**
WNW **700 DALTON STREET** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.440 mi.
2322 ft. **Site 3 of 3 in cluster X**

Relative: **Lower**

Actual: **495 ft.**

SPILLS:

Spill No.:	0304-31-1440
Spill Year:	2003
Sequential Number:	Not reported
Date Spill Reported:	04/30/03
Spill Month:	4
Spill Number:	1440
Reporter Name:	RICHARD JONES
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1765
Lat/Long:	Not reported
Product Spilled Name:	DIESEL FUEL

---

126 **LINDSEY MOTOR EXPRESS** **OH SPILLS** **S103777575**
West **1200 MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.442 mi.
2335 ft.

Relative: **Lower**

Actual: **483 ft.**

SPILLS:

Spill No.:	9809-31-3706
Spill Year:	1998
Sequential Number:	Not reported
Date Spill Reported:	09/03/98
Spill Month:	9
Spill Number:	3706
Reporter Name:	CHARLEY PERRY
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	1765
Lat/Long:	390602.1 / 843223.8

LINDSEY MOTOR EXPRESS (Continued) **S103777575**

Product Spilled Name: SULFURIC ACID - 97%
Product Spilled Name: SULFURIC ACID - 97%

Spill No.: 9809-31-3706
Spill Year: 1998
Sequential Number: Not reported
Date Spill Reported: 09/03/98
Spill Month: 9
Spill Number: 3706
Reporter Name: CHARLEY PERRY
Confidential: No
District Code: SW
County Code: 31
Employee Number: 1765
Lat/Long: 390602.1 / 843223.8
Product Spilled Name: SULFURIC ACID - 97%
Product Spilled Name: SULFURIC ACID - 97%

Z127 **WCPO-TV** **OH UST** **U004104528**
East **500 CENTRAL AVE** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.443 mi.
2340 ft. **Site 1 of 2 in cluster Z**

Relative:
Higher

Actual:
550 ft.

Facility:
Facility ID: 31000815
Facility Type: Gas Station
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W003607
Owner Name: SCRIPPS HOWARD BROADCASTING CO.
Owner Address: 500 CENTRAL AVE
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45202
Owner Phone: (513) 921-9900

UST:
Tank ID: T00001
Tank Status: **REM**
Tank Type: Composite (Steel with Fiberglass)
Capacity: 550
Content: Diesel
CAS #: 68334-30-5
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: 6/1/1979
Date Removed: 10/1/1998
Date Last Used: Not reported
Date Abandoned/Closed: 10/1/1998
Corrosion Protection Tank: Not reported

WCPO-TV (Continued) **U004104528**

Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Cathodically Protected
Piping Type:	Suction: no valve at tank
Release Detection on Piping:	Not reported

Z128 **WCPO-TV** **OH LUST** **S105077046**
East **500 CENTRAL AVE** **N/A**
1/4-1/2 **CINCINNATI, OH 45202**
0.443 mi.
2340 ft. **Site 2 of 2 in cluster Z**

Relative: **Higher**

Actual: **550 ft.**

LUST:

Release Number:	31000815-N00001
Release Date:	10/20/1998
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	11/12/2002

---

129 **CENTRAL INSULATION SYSTEMS** **OH SPILLS** **S106334293**
ENE **628 CENTRAL PKWY** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.445 mi.
2347 ft.

Relative: **Higher**

Actual: **550 ft.**

SPILLS:

Spill No.:	9008-31-4099
Spill Year:	1990
Sequential Number:	Not reported
Date Spill Reported:	08/21/90
Spill Month:	8
Spill Number:	4099
Reporter Name:	CITIZEN
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	ASBESTOS

---

130 **PITT OHIO EXPRESS** **OH SPILLS** **S102900944**
NNW **FREEMAN / GEST ST** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.448 mi.
2364 ft.

Relative: **Lower**

Actual: **510 ft.**

SPILLS:

Spill No.:	9712-31-4681
Spill Year:	1997
Sequential Number:	Not reported
Date Spill Reported:	12/01/97
Spill Month:	12

PITT OHIO EXPRESS (Continued) **S102900944**

Spill Number: 4681
Reporter Name: TIM STIPCAK
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: DIESEL FUEL

---

131 NW 1/4-1/2 0.450 mi. 2377 ft.

QUALEX INC
933 MEADOW GOLD LN
CINCINNATI, OH 45203

RCRA-CESQG **1007113493 OHR000117150**

Relative: Lower

Actual: 500 ft.

RCRA-CESQG:
Date form received by agency: 11/14/2003
Facility name: QUALEX INC
Facility address: 933 MEADOW GOLD LN
CINCINNATI, OH 45203
EPA ID: OHR000117150
Mailing address: 3404 DUKE ST
DURHAM, NC 27704
Contact: DICK WOOLLEY
Contact address: 3404 DUKE ST
DURHAM, NC 27704
Contact country: US
Contact telephone: (919) 382-6478
Contact email: WOOLLEY@QUALEXPHOTO.COM
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: QUALEX INC
Owner/operator address: 933 MEADOW GOLD LN
CINCINNATI, OH 45203
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1989
Owner/Op end date: Not reported

QUALEX INC (Continued) **1007113493**

Owner/operator name: QUALEX INC
Owner/operator address: 933 MEADOW GOLD LN
CINCINNATI, OH 45203
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1989
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: Unknown
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: Unknown
Underground injection activity: Unknown
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: Unknown
Used oil processor: Unknown
User oil refiner: Unknown
Used oil fuel marketer to burner: Unknown
Used oil Specification marketer: Unknown
Used oil transfer facility: Unknown
Used oil transporter: Unknown
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

AA132 **VALLEY ASPHALT CORP PLANT 19** **FINDS 1000282865**
SE **612 W MEHRING WAY** **RCRA-NonGen OHD986971208**
1/4-1/2 **CINCINNATI, OH 45201**
0.461 mi.
2436 ft. **Site 1 of 2 in cluster AA**

Relative:
Lower

Actual:
489 ft.

FINDS:

Registry ID: 110001987850

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans

VALLEY ASPHALT CORP PLANT 19 (Continued) **1000282865**

to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-NonGen:

Date form received by agency:	10/07/1991
Facility name:	VALLEY ASPHALT CORP PLANT 19
Facility address:	612 W MEHRING WAY CINCINNATI, OH 45201
EPA ID:	OHD986971208
Mailing address:	1901 DRYDEN RD DAYTON, OH 45439
Contact:	MELVIN LEVY
Contact address:	1901 DRYDEN RD DAYTON, OH 45439
Contact country:	US
Contact telephone:	(513) 293-4119
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	VALLEY ASPHALT CORP
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator

VALLEY ASPHALT CORP PLANT 19 (Continued) **1000282865**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

AA133 **VALLEY ASHPALT** **OH SPILLS** **S107759327**
SE **612 W MEHRING WAY** **N/A**
1/4-1/2 **CINCINNATI, OH**
0.461 mi.
2436 ft. **Site 2 of 2 in cluster AA**

Relative:
Lower

Actual:
489 ft.

SPILLS:
Spill No.: 0609-31-3206
Spill Year: 2006
Sequential Number: Not reported
Date Spill Reported: 9/1/2006 00:00:00
Spill Month: 9
Spill Number: 3206
Reporter Name: DAN CRAGO
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: ASPHALT
Product Spilled Name: ASPHALT

Spill No.: 0609-31-3206
Spill Year: 2006
Sequential Number: Not reported
Date Spill Reported: 9/1/2006 00:00:00
Spill Month: 9
Spill Number: 3206
Reporter Name: DAN CRAGO
Confidential: No
District Code: SW
County Code: 31
Employee Number: Not reported
Lat/Long: Not reported
Product Spilled Name: ASPHALT

VALLEY ASHPALT (Continued) **S107759327**

Product Spilled Name: ASPHALT

134
SE
1/4-1/2
0.469 mi.
2474 ft.

VALEY ASPHALT **OH SPILLS** **S102881742**
610 AUGUSTA **N/A**
CINCINNATI, OH

Relative:
Lower

Actual:
487 ft.

SPILLS:

Spill No.:	9011-31-5441
Spill Year:	1990
Sequential Number:	Not reported
Date Spill Reported:	11/23/90
Spill Month:	11
Spill Number:	5441
Reporter Name:	FD
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	DIESEL FUEL

AB135
ESE
1/4-1/2
0.471 mi.
2485 ft.

RUMPKE WASTE INC **OH SPILLS** **S105505369**
205 CENTRAL AVE PARKING LOT **N/A**
CINCINNATI, OH

Site 1 of 2 in cluster AB

Relative:
Lower

Actual:
487 ft.

SPILLS:

Spill No.:	9701-31-0070
Spill Year:	1997
Sequential Number:	Not reported
Date Spill Reported:	01/07/97
Spill Month:	1
Spill Number:	0070
Reporter Name:	DAVID WEBER
Confidential:	No
District Code:	SW
County Code:	31
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	HYDRAULIC OIL

AC136
NE
1/4-1/2
0.479 mi.
2529 ft.

BETTS-LONGWORTH SITE **OH LUST** **S104777001**
1009 JOHN ST **N/A**
CINCINNATI, OH 45203

Site 1 of 2 in cluster AC

Relative:
Higher

Actual:
535 ft.

LUST:

Release Number:	31007822-N00001
Release Date:	6/25/1992
Facility Status:	**Active**
LTF Status:	6 Closure of regulated UST

BETTS-LONGWORTH SITE (Continued) **S104777001**

FR Status: **NRC: No response to NCR letter sent**
Priority: 2
Review Date: 9/9/2008

AC137 **BETTS-LONGWORTH SITE** **OH UST** **U004085207**
NE **1009 JOHN ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.479 mi.
2529 ft. **Site 2 of 2 in cluster AC**

Relative:
Higher

Actual:
535 ft.

Facility:

Facility ID:	31007822
Facility Type:	Local Government
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	Yes
Owner Id:	W011003
Owner Name:	CITY OF CINCINNATI, NHC
Owner Address:	1106 BATES AVE
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45225
Owner Phone:	(513) 352-3581

Inspection:

Facility Id:	31007822
Inspection Id:	6/25/92
Code:	103
Permit Number:	P00001
Inspection Type:	Final

UST:

Tank ID:	T00001
Tank Status:	**REM**
Tank Type:	Other
Capacity:	Not reported
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	6/25/1992
Date Last Used:	Not reported
Date Abandoned/Closed:	6/25/1992
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

AB138
ESE
1/4-1/2
0.479 mi.
2531 ft.

DAYTON HYDRAULIC CO.
444 W3RD ST
CINCINNATI, OH 45202

OH LUST **S104974825**
N/A

Site 2 of 2 in cluster AB

Relative:
Lower

Actual:
488 ft.

LUST:
Release Number: 31010494-N00001
Release Date: 12/6/2000
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 4/17/2001 8:22:02 PM

139
ESE
1/4-1/2
0.480 mi.
2535 ft.

CINCINNATI PUBLIC WORKS
302-304 CENTRAL AVE
CINCINNATI, OH

OH LUST **S104267101**
N/A

Relative:
Lower

Actual:
515 ft.

LUST:
Release Number: 31009978-N00001
Release Date: 1/18/2000
Facility Status: Inactive
LTF Status: 1 SUS/CON from regulated UST
FR Status: NFA: No Further Action
Priority: 2
Review Date: 8/15/2000 11:51:05 AM

AD140
NNW
1/4-1/2
0.486 mi.
2565 ft.

KEY TRUCK SALES
1001 GEST ST
CINCINNATI, OH 45203

RCRA-SQG **1000134876**
FINDS **OHD982614752**

Site 1 of 4 in cluster AD

Relative:
Lower

Actual:
499 ft.

RCRA-SQG:
Date form received by agency: 12/02/1988
Facility name: KEY TRUCK SALES
Facility address: 1001 GEST ST
CINCINNATI, OH 45203
EPA ID: OHD982614752
Contact: SHARON CHANDLER
Contact address: 1001 GEST ST
CINCINNATI, OH 45203
Contact country: US
Contact telephone: (513) 369-4321
Contact email: Not reported
EPA Region: 05
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BOURKE JOHN

KEY TRUCK SALES (Continued) **1000134876**

Owner/operator address:	ADDRESS NOT REPORTED
	CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED
	CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

KEY TRUCK SALES (Continued) **1000134876**

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110004654847

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AD141 **KEY GMC TRUCK SALES** **OH UST** **U004094386**
NNW **1001 GEST ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45203**
0.486 mi.
2565 ft. **Site 2 of 4 in cluster AD**

Relative:
Lower

Actual:
499 ft.

Facility:
Facility ID: 31000108
Facility Type: Auto Dealership
24 Hour Emergency Contact: Not reported
24 Hour Emergency Phon: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W007111
Owner Name: HARRY OELERICH
Owner Address: 559 LIBERTY HILL
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45210
Owner Phone: (513) 241-0060

Inspection:
Facility Id: 31000108
Inspection Id: 10/2/92

KEY GMC TRUCK SALES (Continued) **U004094386**

Code: 103
Permit Number: P00001
Inspection Type: Final

UST:
Tank ID: T00001
Tank Status: REM
Tank Type: Other
Capacity: 1000
Content: Used Oil
CAS #: Not reported
Regulated: Yes
Overfill Device Installed: No
Spill Device Installed: No
AST/UST: UST
Installation Date: Not reported
Date Removed: 10/21/1992
Date Last Used: Not reported
Date Abandoned/Closed: 10/21/1992
Corrosion Protection Tank: Not reported
Release Detection on Tank: Not reported
Corrosion Protection Piping: Not reported
Piping Material: Not Marked on Form
Piping Type: Gravity Feed
Release Detection on Piping: Not reported

142
NE
1/4-1/2
0.486 mi.
2565 ft.

Relative:
Higher

Actual:
546 ft.

THREE CENTENNIAL **OH UST** **U003727746**
895 CENTRAL AVE **N/A**
CINCINNATI, OH 45202

Facility:
Facility ID: 31000527
Facility Type: Commercial
24 Hour Emergency Contact: MIKE MCCORMICK
24 Hour Emergency Phon: (317)281-8111
Number Of Tanks On Site: 1
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Yes
Active Release Site: No
Owner Id: W020806
Owner Name: NEW BOSTON CENTENNIAL LL
Owner Address: 895 CENTRAL AVE, SUITE 250
Owner City: CINCINNATI
Owner State: OH
Owner Zip: 45202
Owner Phone: (513)381-1000

UST:
Tank ID: T00001
Tank Status: Currently In Use
Tank Type: SW - FRP - Fiberglass
Capacity: 900
Content: Diesel
CAS #: 68334-30-5

THREE CENTENNIAL (Continued) **U003727746**

Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1990
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	None Required
Corrosion Protection Piping:	NCWG - No Piping In Contact With
Piping Material:	Other
Piping Type:	Suction: valve at dispenser
Release Detection on Piping:	No Monitoring Suction/Gravity System;Safe Suction

---

AD143 **OFFENBERGER SERV STA** **OH LUST** **S104267127**
NNW **1000 GEST ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45214**
0.496 mi.
2621 ft. **Site 3 of 4 in cluster AD**

Relative:
Lower

Actual:
498 ft.

LUST:

Release Number:	31010058-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000

AD144 **OFFENBERGER SERV STA** **OH UST** **U004097648**
NNW **1000 GEST ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45214**
0.496 mi.
2621 ft. **Site 4 of 4 in cluster AD**

Relative:
Lower

Actual:
498 ft.

Facility:

Facility ID:	31010058
Facility Type:	Not reported
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W015779
Owner Name:	OFFENBERGER SERV STA
Owner Address:	1000 GEST ST
Owner City:	CINCINNATI
Owner State:	OH
Owner Zip:	45214
Owner Phone:	Not reported

UST:

Tank ID:	Not reported

OFFENBERGER SERV STA (Continued) **U004097648**

Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

AE145 **DELHI WELDING (RICHTER REALTY)** **OH LUST** **S104267195**
WNW **1223 BUDD ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45201**
0.497 mi.
2625 ft. **Site 1 of 3 in cluster AE**

Relative:
Lower

Actual:
490 ft.

LUST:

Release Number:	31010138-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	1 SUS/CON from regulated UST
FR Status:	**NFA: No Further Action**
Priority:	1
Review Date:	6/20/2000

AE146 **DELHI WELDING (RICHTER REALTY)** **OH UST** **U004089146**
WNW **1223 BUDD ST** **N/A**
1/4-1/2 **CINCINNATI, OH 45201**
0.497 mi.
2625 ft. **Site 2 of 3 in cluster AE**

Relative:
Lower

Actual:
490 ft.

Facility:

Facility ID:	31010138
Facility Type:	Not reported
24 Hour Emergency Contact:	Not reported
24 Hour Emergency Phon:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Yes
Active Release Site:	No
Owner Id:	W015859
Owner Name:	DELHI WELDING (RICHTER REALTY)
Owner Address:	1223 BUDD ST
Owner City:	CINCINNATI

DELHI WELDING (RICHTER REALTY) (Continued) **U004089146**

Owner State:	OH
Owner Zip:	45201
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

AE147 **CYLINDER PROCESSORS INC** **FINDS 1001489400**
WNW **1223 BUDD ST** **RCRA-NonGen OHR000036483**
1/4-1/2 **CINCINNATI, OH 45203**
0.497 mi.
2625 ft. **Site 3 of 3 in cluster AE**

Relative:
Lower

Actual:
490 ft.

FINDS:

Registry ID: 110009430268

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRA-NonGen:

Date form received by agency:	10/24/2005
Facility name:	CYLINDER PROCESSORS INC
Facility address:	1223 BUDD ST CINCINNATI, OH 45203

CYLINDER PROCESSORS INC (Continued) **1001489400**

EPA ID:	OHR000036483
Contact:	RICHARD SCHULTZ
Contact address:	3028 STRATFORD CT. LOVELAND, OH 45140
Contact country:	US
Contact telephone:	(513) 381-4274
Contact email:	Not reported
EPA Region:	05
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	LOWELL E KING
Owner/operator address:	3028 STRATFORD COURT LOVELAND, OH 45140
Owner/operator country:	Not reported
Owner/operator telephone:	(513) 683-1909
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/0001
Owner/Op end date:	Not reported

Owner/operator name:	RICHTER REALTY(PROPERTY)
Owner/operator address:	2560 SR 132 NEW RICHMOND, OH 45157
Owner/operator country:	Not reported
Owner/operator telephone:	UNKNOWN
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/0001
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	02/28/2000
Facility name:	CYLINDER PROCESSORS INC
Classification:	Large Quantity Generator

CYLINDER PROCESSORS INC (Continued) **1001489400**

Date form received by agency: 02/21/2000
Facility name: CYLINDER PROCESSORS INC
Site name: CYLINDER PROCESSORS INCORPORATED
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:
Regulation violated: SR - 3745-52-41
Area of violation: Generators - Records/Reporting
Date violation determined: 09/17/2004
Date achieved compliance: 02/16/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/17/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/17/2004
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 02/16/2005
Evaluation lead agency: State

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CINCINNATI	U004103125	UNITED PARCEL SERVICE	640 W 3RD ST	45202	OH UST
CINCINNATI	U004101528	SPRINT POP	1034 W 6TH	45203	OH UST
CINCINNATI	1008404527	ODOT HIGHWAY BRIDGE HAM-71-0000	INTERSTATE 71 AT MILE MARKER 0	45202	RCRA-NonGen
CINCINNATI	U004114124	CINCINNATI PUBLIC SHCOOLS	108 W CENTRAL AVE	45202	OH LUST, OH UST
CINCINNATI	S109350612	ANCHOR WHITE LEAD CO, CINCINNATI -	FREEMAN / 7TH ST	45203	OH DERR
CINCINNATI	S105859854	B&O RAILROAD DUMP	GERINGER STREET / QUEENSGATE Y		OH HIST LF
CINCINNATI	1003872262	UNITED LEAD CO	HARRIET & COURT STS	45203	OH DERR, CERC-NFRAP
CINCINNATI	U004090661	FORMER BP 9022	HENSHAW & HOPPLE	45202	OH UST
CINCINNATI	U004087236	CINCINNATI METRO SEWER DISTRICT	MEHRING WAY	45203	OH UST
CINCINNATI	S102880039	GE AVIATION GREEN SPACE	1 NEWMAN WAY		OH SPILLS, OH NPDES
CINCINNATI	1004766700	CINERGY FIELD	201 E PETE ROSEWAY	45202	FINDS, RCRA-CESQG
CINCINNATI	U004087263	CINERGY FIELD	201 PETE ROSE WAY	45202	OH UST
CINCINNATI	U004107209	PARKING LOT (ORPHAN)	601 PETE ROSE WAY	45202	OH UST
CINCINNATI	S108517402	PARKING LOT (ORPHAN)	601 PETE ROSE WAY	45202	OH LUST
CINCINNATI	U004087354	CITY OF CINCINNATI	7TH & PLUM STS	45202	OH UST
CINCINNATI	U004107207	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN	45202	OH UST
CINCINNATI	S108517416	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN	45202	OH LUST
CINCINNATI	1001125153	ODOT HIGHWAY BRIDGE	INTERSTATE RT 71 SECT 226	45202	FINDS, RCRA-NonGen
CINCINNATI	1000873167	ODOT HIGHWAY BRIDGE	INTERSTATE RTE 75 SECTION 605R	45202	FINDS, RCRA-NonGen
CINCINNATI	1000873168	ODOT HIGHWAY BRIDGE	INTERSTATE RTE 75 SECTION 605L	45202	FINDS, RCRA-NonGen
CINCINNATI	U004091141	FORMER RIDGEWOOD FORGING PLANT	SEYMOUR & 6649 ESTE AVES	45203	OH UST
CINCINNATI	89129399	SITE OF SPILL IS A CONSTRUCTION SI	SITE OF SPILL IS A CONSTRUCTIO		ERNS
CINCINNATI	S105854943	QUEENSGATE SOUTH, CINCINNATI	750 W THIRD ST - 311 BAYMILLER	45203	OH DERR
CINCINNATI	S108968975	QUEENSGATE SOUTH, CINCINNATI	*750 W THIRD ST - 311 BAYMILLE	45203	OH VCP
CINCINNATI	U004094864	LAZARUS WESTERN WOODS MALL	WESTERN WOODS MALL	45202	OH UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/02/2009
Date Data Arrived at EDR: 02/12/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 46

Source: EPA
Telephone: N/A
Last EDR Contact: 07/31/2009
Next Scheduled EDR Contact: 10/26/2009
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/23/2009
Date Data Arrived at EDR: 04/28/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/31/2009
Next Scheduled EDR Contact: 10/26/2009
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/02/2009
Date Data Arrived at EDR: 02/12/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 46

Source: EPA
Telephone: N/A
Last EDR Contact: 07/31/2009
Next Scheduled EDR Contact: 10/26/2009
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2009
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 101

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 07/14/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007
Date Data Arrived at EDR: 12/06/2007
Date Made Active in Reports: 02/20/2008
Number of Days to Update: 76

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 06/15/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2009
Date Data Arrived at EDR: 04/02/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 39

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 109

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

OH SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: N/A

KY SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: N/A

OH DERR: Division of Emergency & Remedial Response's Database

The DERR listings contains sites from all of Ohio that are in the Division of Emergency and Remedial Response (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

Date of Government Version: 06/08/2009
Date Data Arrived at EDR: 06/09/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 27

Source: Ohio EPA, Div. of Emergency and Remedial Response
Telephone: 614-644-3538
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal landfill and/or solid waste disposal site lists

OH SWF/LF: Licensed Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/04/2009
Date Data Arrived at EDR: 08/05/2009
Date Made Active in Reports: 08/12/2009
Number of Days to Update: 7

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 08/03/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Annually

KY SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/16/2009
Date Data Arrived at EDR: 06/17/2009
Date Made Active in Reports: 06/24/2009
Number of Days to Update: 7

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 11/23/2009
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

OH LUST: Leaking Underground Storage Tank File

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/09/2009
Date Data Arrived at EDR: 06/10/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 26

Source: Department of Commerce
Telephone: 614-752-7924
Last EDR Contact: 06/10/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Quarterly

OH UNREG LTANKS: Ohio Leaking UST File

A suspected or confirmed release of petroleum from a non-regulated UST.

Date of Government Version: 08/25/1999
Date Data Arrived at EDR: 08/19/2003
Date Made Active in Reports: 08/26/2003
Number of Days to Update: 7

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 08/01/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

KY SB193: SB193 Branch Site Inventory List

The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/18/2006
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 08/03/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: No Update Planned

KY PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 07/01/2009
Date Data Arrived at EDR: 08/04/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 08/04/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/04/2009
Date Data Arrived at EDR: 06/05/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 12

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 14

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 28

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/21/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/20/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/24/2009
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/15/2008
Date Data Arrived at EDR: 12/16/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

OH UST: Underground Storage Tank Tank File
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 07/02/2009
Number of Days to Update: 31

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Quarterly

KY UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/21/2009
Date Data Arrived at EDR: 07/24/2009
Date Made Active in Reports: 08/06/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/15/2008
Date Data Arrived at EDR: 12/16/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 14

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 06/04/2009
Date Data Arrived at EDR: 06/05/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 12

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/24/2009
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/20/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/21/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

OH ENG CONTROLS: Sites with Engineering Controls
A database that tracks properties with engineering controls.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 33

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Semi-Annually

KY ENG CONTROLS: Engineering Controls Site Listing
A listing of sites that use engineering controls.

Date of Government Version: 07/16/2009
Date Data Arrived at EDR: 07/16/2009
Date Made Active in Reports: 08/06/2009
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

OH INST CONTROL: Sites with Institutional Engineering Controls
A database that tracks properties with institutional controls.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 33

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2306
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Semi-Annually

KY INST CONTROL: State Superfund Database
A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.

Date of Government Version: 07/16/2009
Date Data Arrived at EDR: 07/16/2009
Date Made Active in Reports: 08/06/2009
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

OH HIST ENG CONTROLS: Operation & Maintenance Agreements Database
Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g" cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how itwill be monitored, maintained and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

OH HIST INST CONTROLS: Institutional Controls Database
"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

OH VCP: Voluntary Action Program Sites
Site involved in the Voluntary Action Program.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 33

Source: Ohio EPA, Voluntary Action Program
Telephone: 614-728-1298
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Semi-Annually

KY VCP: Voluntary Cleanup Program Sites
Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 07/16/2009
Date Data Arrived at EDR: 07/28/2009
Date Made Active in Reports: 08/06/2009
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/20/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

OH BROWNFIELDS: Ohio Brownfield Inventory
A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.

Date of Government Version: 07/17/2009
Date Data Arrived at EDR: 07/20/2009
Date Made Active in Reports: 08/12/2009
Number of Days to Update: 23

Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 07/20/2009
Next Scheduled EDR Contact: 10/05/2009
Data Release Frequency: Varies

KY BROWNFIELDS: Kentucky Brownfield Inventory
The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Date of Government Version: 06/16/2009
Date Data Arrived at EDR: 06/17/2009
Date Made Active in Reports: 06/24/2009
Number of Days to Update: 7

Source: Division of Compliance Assistance
Telephone: 502-564-0323
Last EDR Contact: 08/11/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 07/14/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 07/13/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

OH HIST LF: Old Solid Waste Landfill

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 01/01/1980
Date Data Arrived at EDR: 07/01/2003
Date Made Active in Reports: 07/17/2003
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/26/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

KY HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

Date of Government Version: 05/01/2003
Date Data Arrived at EDR: 03/30/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 53

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/26/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Quarterly

OH CDL: Clandestine Drug Lab Locations

A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.

Date of Government Version: 03/01/2008
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/24/2008
Number of Days to Update: 10

Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Varies

KY CDL: Clandestine Drub Lab Location Listing

Clandestine drug lab site locations.

Date of Government Version: 07/15/2009
Date Data Arrived at EDR: 07/16/2009
Date Made Active in Reports: 08/06/2009
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

OH ARCHIVE UST: Archived Underground Storage Tank Sites

Underground storage tank records that have been removed from the Underground Storage Tank database.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 35

Source: Department of Commerce, Division of State Fire Marshal
Telephone: 614-752-7938
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/29/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 43

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/16/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Annually

OH SPILLS: Emergency Response Database

Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state?s water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 35

Source: Ohio EPA
Telephone: 614-644-2084
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Varies

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/27/2009
Next Scheduled EDR Contact: 11/23/2009
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/01/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/27/2009
Date Data Arrived at EDR: 04/23/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 18

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/20/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/23/2009
Date Data Arrived at EDR: 04/28/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/31/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/15/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Varies

MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 03/24/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/23/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 69

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/16/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/14/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/15/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/15/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/14/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 03/20/2009
Date Data Arrived at EDR: 03/20/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/13/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 02/26/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 08/05/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/02/2009
Date Data Arrived at EDR: 04/24/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 25

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/28/2009
Date Data Arrived at EDR: 04/29/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/28/2009
Next Scheduled EDR Contact: 10/26/2009
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/28/2009
Date Data Arrived at EDR: 05/01/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 18

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Biennially

OH TOWNGAS: DERR Towngas Database

The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992
Date Data Arrived at EDR: 02/21/2003
Date Made Active in Reports: 03/05/2003
Number of Days to Update: 12

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 02/12/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OH UIC: Underground Injection Wells Listing
A listing of underground injection well locations.

Date of Government Version: 06/02/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 33

Source: Ohio EPA
Telephone: 614-644-2752
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Varies

OH DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facility locations.

Date of Government Version: 07/20/2009
Date Data Arrived at EDR: 07/20/2009
Date Made Active in Reports: 08/12/2009
Number of Days to Update: 23

Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 07/20/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

KY DRYCLEANERS: Drycleaner Listing
A listing of drycleaner facility locations.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 06/23/2009
Date Made Active in Reports: 06/29/2009
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

OH NPDES: NPDES General Permit List
General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 12/02/2008
Date Data Arrived at EDR: 12/04/2008
Date Made Active in Reports: 02/09/2009
Number of Days to Update: 67

Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 06/05/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Semi-Annually

KY NPDES: Permitted Facility Listing
A listing of permitted wastewater facilities.

Date of Government Version: 06/22/2009
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/17/2009
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 502-564-3410
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Varies

OH AIRS: Title V Permits Listing
A listing of Title V Permits issued by the Division of Air Pollution Control. It is a federal operating permit program adopted and implemented by the state. The basic program elements typically specify that major sources will submit an operating application to the specified state environmental regulatory agency according to a schedule.

Date of Government Version: 06/05/2009
Date Data Arrived at EDR: 07/14/2009
Date Made Active in Reports: 08/12/2009
Number of Days to Update: 29

Source: Ohio EPA
Telephone: 614-644-2270
Last EDR Contact: 07/14/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Varies

KY AIRS: Permitted Airs Facility Listing
A listing of permitted Airs facilities.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 06/23/2009
Date Made Active in Reports: 06/29/2009
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 06/22/2009
Next Scheduled EDR Contact: 09/21/2009
Data Release Frequency: Varies

OH USD: Urban Setting Designation Sites

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 33

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Varies

OH HIST USD: Urban Setting Designations Database

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

KY LEAD: Environmental Lead Program Report Tracking Database

Lead Report Tracking Database

Date of Government Version: 12/12/2008
Date Data Arrived at EDR: 02/27/2009
Date Made Active in Reports: 04/22/2009
Number of Days to Update: 54

Source: Department of Public Health
Telephone: 502-564-4537
Last EDR Contact: 06/01/2009
Next Scheduled EDR Contact: 08/31/2009
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 04/13/2009
Date Data Arrived at EDR: 04/14/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/21/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 12/11/2008
Date Made Active in Reports: 03/19/2009
Number of Days to Update: 98

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 07/21/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 05/05/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 17

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 08/04/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/22/2009
Date Data Arrived at EDR: 05/27/2009
Date Made Active in Reports: 07/01/2009
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/27/2009
Next Scheduled EDR Contact: 11/23/2009
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/02/2008
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/12/2009
Date Made Active in Reports: 06/29/2009
Number of Days to Update: 17

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/15/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 05/20/2009
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/06/2009
Next Scheduled EDR Contact: 10/05/2009
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Facilities
Source: Department of Job & Family Services
Telephone: 614-466-6282

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

© 2009 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FORMER HUDEPOHL SITE
801 WEST SIXTH STREET
CINCINNATI, OH 45203

TARGET PROPERTY COORDINATES

Latitude (North):	39.10000 - 39° 5' 60.0"
Longitude (West):	84.5282 - 84° 31' 41.5"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	713755.1
UTM Y (Meters):	4330574.5
Elevation:	522 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	39084-A5 COVINGTON, KY
Most Recent Revision:	1987

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

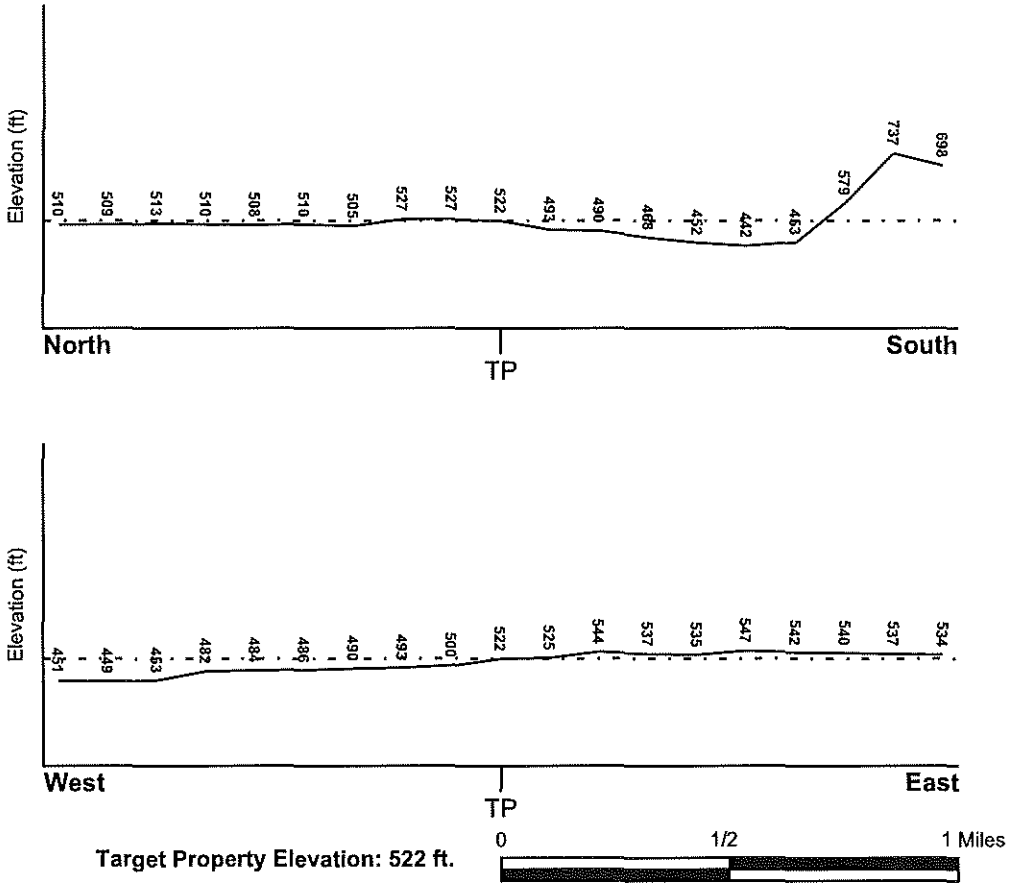
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
HAMILTON, OH	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	3902100025B
Additional Panels in search area:	3902100024B 2102660001B 2101290005D

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
COVINGTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/2 - 1 Mile NNW	NW
A2	1/2 - 1 Mile NNW	SE
A3	1/2 - 1 Mile NNW	SW
4	1/2 - 1 Mile WNW	SW

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	ELDEAN
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	12 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	12 inches	23 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.20	Max: 7.80 Min: 5.60
3	23 inches	30 inches	very gravelly - clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60
4	30 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 20.00 Min: 6.00	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: clay loam
silt loam
silty clay loam

Surficial Soil Types: clay loam
silt loam
silty clay loam

Shallow Soil Types: silty clay loam
clay loam
silt loam
sandy clay loam

Deeper Soil Types: gravelly - coarse sand
sand and gravel
clay loam
loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	0.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	0.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2575940.2s

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location

SITE NAME:	Former Hudepohl Site	CLIENT:	ATC Associates Inc. #72
ADDRESS:	801 West Sixth Street Cincinnati OH 45203	CONTACT:	Bill Norris
		INQUIRY #:	2575940.2s
LAT/LONG:	39.1000 / 84.5282	DATE:	August 27, 2009 5:29 pm

Copyright © 2008 EDR, Inc. © 2008 Tele Atlas Rel. 07/2007.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **NNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	3110507 NW Not Reported Not Reported 20-23 3/1991	**AQUIFLOW**	**14027**
A2 **NNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	3100722 SE 13.17 22.26 Not Reported 11/1990	**AQUIFLOW**	**20103**
A3 **NNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	3130496-01 SW 14.46 21.23 Not Reported 2/1994	**AQUIFLOW**	**15008**
4 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	3113411 SW Not Reported Not Reported 20 5/1992	**AQUIFLOW**	**15084**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OH Radon

Radon Test Results

Zip	Total Sites	Median	1st Quartile	3rd Quartile	Min.	Max.
45203	16	1	0.8	1.5	0.1	2.9

Federal EPA Radon Zone for HAMILTON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for HAMILTON COUNTY, OH

Number of sites tested: 75

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.044 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.932 pCi/L	87%	13%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water System Data
Source: Ohio Environmental Protection Agency
Telephone: 614-644-3677
The database includes community, transient noncommunity and nontransient noncommunity water wells; and source treatment unit locations.

Water Well Database
Source: Department of Natural Resources
Telephone: 614-265-6747

OTHER STATE DATABASE INFORMATION

RADON

State Database: OH Radon
Source: Department of Health
Telephone: 614-644-2727
Radon Statistics for Zip Code Areas

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

© 2009 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix J

FOIA Requests

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

SEP 21 2009

SEP 17 2009

REPLY TO THE ATTENTION OF:

LP-9J

Mr. William Norris
ATC Associates
11121 Canal Road
Cincinnati, Ohio 45241

RE: Freedom of Information Act (FOIA) Request RIN 05-01471-09

Dear Mr. Norris:

This is the Land and Chemicals Division (LCD) response to your FOIA request received September 14, 2009. In your request you asked for information on Hudepohl Brewing, located at 800 West 5th Street, 801 West 6th Street, or 505 Gest Street, Cincinnati, Ohio 45203.

We have checked our records and found nothing for the Hudepohl Brewing site. Only the location of 505 Gest Street notified our Agency as the National Underwriter Company, and received an identification number of OH0000630640. We have no physical documents to forward to you. However, a Site Detail Report has been enclosed for your information.

If you consider this response to be a denial of your request, you have the right to appeal this determination to the National Freedom of Information Officer, United States Environmental Protection Agency, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, N.W., (2822T), Washington, DC 20460, (U.S. Postal Service Only) FAX: (202)566-2147, E-mail: hq.foia@epa.gov. Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue, N.W. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, N.W., Room 6416J, Washington, D.C. 20004. The appeal must be made in writing and be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the RIN listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

Ohio is authorized to perform portions of the hazardous waste program in lieu of the Federal program. Therefore, you may wish to contact the Ohio Environmental Protection Agency at the address enclosed.

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (50% Postconsumer)

The Superfund Division and the Air Division will respond separately to your request and may submit a Bill for Collection if the costs exceed the $14.00 minimum.

Please contact me at (312) 886-7449 or Ms. Christine Klemme at (312) 886-3715 if you have any questions regarding this response. Agency internet addresses are listed on the enclosed sheet for your information. Toxics information can be found at www.epa.gov/tri.

Sincerely,

Jane E. Ratcliffe

Jane E. Ratcliffe, Chief
Internal Services Section

Enclosures

RCRA Site Detail

Report run on: September 16, 2009 - 1:26 PM

Version 4.0

User Selection Criteria

Handler EPA ID: OH0000630640

Activity Location: All

History: All records

WAR Cycles: Show all

Results

Data meeting the criteria you selected follows.
Total Pages: 3

Report Description

The RCRA Site Detail report provides "all available details" from the handler module and summarized information from the waste activity monitoring module for one RCRA site. The report integrates National Biennial RCRA Hazardous Waste Report data with Site Identification data.

Details reported about the RCRA site include basic handler module information; the standard suite of universes; information about each source record received for the facility, including basic information, location and mailing address, source record and permit contact person (including historical records), list of NAICS codes, complete list of regulated waste activities; and summarized National Biennial RCRA Hazardous Waste Report information by reporting cycle year, including quantity totals (generated, managed, shipped, received), and top ten GM forms by quantity generated. Top ten GM form list shows reported waste description, quantities, onsite and offsite system types, and EPA and State waste codes.

Information listed for the RCRA site can be limited by activity location, latest historical information, and most recent BR cycle.

Data is sorted by Activity Location, most recent Received Date, and highest sequence number, with the exception that the activity location matching the site's location state is sorted to the top.

Report Information

Name:	sitedetail.rdf
Developed by:	EPA Headquarters, Office of Solid Waste
Deployed:	November 2002
Last Revised:	March 2009
Contact:	rcrainfo.help@epa.gov
Tables Used:	hbasic, hreport_univ4, hprevious_id, hhandler4, lu_country, howner_operator2, hnaics, lu_naics, hstate_activity, hother_permit2, huniversal_waste, lu_universal_waste, hwaste_code, bgm_basic, bgm_onsite_treatment, bgm_offsite_shipment, bwr_basic, bwr_waste_code, lu_management_method, gpra_ca, aevent, aln_area_event, aarea, lu_state, hid_groups, gis4, gis_lat_long4
Libraries:	decodes.pll

NOTE: Some data is suppressed if it is null or blank. See documentation in RCRAInfo Help for details.

List of Hazardous Waste Code Descriptions

Please run the lookup table report for LU_WASTE_CODES for description of federal and state waste codes in this report.

List of Handler Universe Abbreviations

Generator	Indicates that the facility is a Large Quantity Generator (LQG), Small Quantity Generator (SQG), Conditionally Exempt Small Quantity Generator (CEG), or not a generator (N).
Transporter	Indicates that the facility Transports waste subject to RCRA regulations. ('Y' indicates that the facility is in this universe).
Operating TSDF	Indicates that the facility is a Treatment, Storage or Disposal facility subject to any type of enforcement. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
IC in Place	Indicates that the facility has Institutional Controls in place. ('Y' indicates that the facility is in this universe).
EI Indicator (HE/GW)	Indicates that the facility has controls in place for Environmental Indicators. HE - Human Exposures ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist) GW - Groundwater Release ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist)

OH0000630640 NATIONAL UNDERWRITER CO

EPA Region:05 **Extract Flag:** Y **Facility Identifier:** **County:** HAMILTON

Universes

Generator: CEG Transporter: N Active: Y

Operating TSDF: ----- IC In Place: N EI Indicator (HE / GW): N / N

Activity Location: OH **Source Type:** Notification **Seq. Number:** 1 **Receive Date:** 29 SEP 1994

Other/Previous Site Name: NATIONAL UNDERWRITER CO

Location Address: 505 GEST ST
CINCINNATI, OH 45203

Mailing Address: 505 GEST ST
CINCINNATI, OH 45203

Contact Person For Source Information LARRY MUZYKA (513) 721-2140 505 GEST ST CINCINNATI, OH 45203

Owner (current)
ESOP C/O NU CO
From: To:
505 GEST ST
CINCINNATI, OH 45203
Type: Private
Phone: (513) 721-2140

Latitude/Longitude Measure - Owner: Seq #:

Coordinates: ,

Land Type: Private Non Notifier: No Commercial Availability: Non-Commercial Tsd Date:

Accessibility: No. Employees: State District: SW

Regulated Waste Activities

Hazardous Waste Generator Status - Federal: Conditionally Exempt SQG; State:

Other Hazardous Waste Generator Activities

Importer Activity: No
Mixed Waste Generator: Unknown

Transporter Activity: No
TSD Activity: No
Recycler Activity: No

Exempt Boiler and/or Industrial Furnace

Small Quantity Onsite Burner Exemption: No
Smelting, melting, Refining Furnace Exemption: No

Used Oil Activities

Used Oil Transporter Activity

Transporter: No
Transfer Facility: No

Used Oil Processor and/or Re-refiner Activity

Processor: No
Refiner: No

Underground Injection Control: No

Off-Specification Used Oil Burner: No

Used Oil Fuel Marketer Activity

Marketer who directs shipment off-specification used oil to off-specification used oil burner: No

Marketer who first claims the used oil meets the specifications: No

Destination Facility for Universal Waste:

Description of Hazardous Wastes (as reported on Site Identification Form)

EPA Waste Codes: D001

* End of Report *

United States Environmental Protection Agency | Region 5 Illinois, Indiana, Michigan Minnesota, Ohio, Wisconsin | Land & Chemicals Division 77 West Jackson Blvd., LP-7J Chicago, Illinois 60604-3590

General USEPA Internet Websites

Region 5 Land & Chemicals Division
http://www.epa.gov/region5/waste/

Envirofacts Database
http://www.epa.gov/enviro/index_java.html

Region 5 RCRA Corrective Action Guidance
http://www.epa.gov/reg5rcra/ca/guidance.htm

Region 5 RCRA Corrective Action
http://www.epa.gov/reg5rcra/ca/

Region 5 Pollution Prevention Program
http://www.epa.gov/region5/p2/

Region 5 Waste Minimization Program
http://www.epa.gov/reg5rcra/wptdiv/wastemin/

Office of Solid Waste
(Hazardous, Municipal, Industrial, Special & Universal Wastes)
http://www.epa.gov/osw/

Office of Underground Storage Tanks
http://www.epa.gov/swerust1/

USTfields
(Brownfields with underground storage tanks)
http://www.epa.gov/oust/rags/ustfield.htm

PCB Homepage
http://www.epa.gov/opptintr/pcb/

Enviromapper
http://www.epa.gov/enviro/html/em/index.html

Window to My Environment
(Environmental Conditions and features in an area of your choice)
http://www.epa.gov/enviro/wme/

Region 5 RCRA Hazardous Waste
http://www.epa.gov/reg5rcra/wptdiv/hazardous/index.html

Freedom of Information Act
(To request site-specific information)
http://www.epa.gov/region5/answers/foia/index.htm
call the FOIA Hotline 312-886-6686
FOIA requests to EPA must be in writing
and sent to the Freedom of Information Officer,
USEPA Region 5 (MRI-9J),
77 West Jackson Blvd., Chicago, IL 60604-3590,
email:r5foia@epa.gov, Fax: 312-886-1515

Region 5 Where you Live
http://www.epa.gov/region5/whereyoulive/index.htm

Revised 7/2009

STATE FREEDOM OF INFORMATION ACT CONTACTS

ILLINOIS

Ms. Jan Ogden
Illinois Environmental Protection Agency
1021 North Grand Ave. East
P.O. Box 19276
Springfield, IL 62794-9276
Telephone Number (217) 557-2482
Fax Number (217) 782-9290

INDIANA

Ms. Glynda Oakes
Office of Land Quality
Indiana Department of Environmental Management
100 North Senate Ave.
Indianapolis, IN 46204-2251
Telephone Number (317) 233-1052
Fax: (317) 233-3403

MICHIGAN

Ms. Susan Vorce
Michigan Department of Environmental Quality
P.O. Box 30473
Lansing, MI 48909-7973
Phone Number (517) 241-8166
Fax: 517-241-7428

MINNESOTA

Ms. Lupe Verduzco
RCRA Files
Minnesota Pollution Control Agency
520 Lafayette Road, North
St. Paul, MN 55155-4194
Telephone Number (651) 296-7805
Fax Number (651) 296-9707

OHIO

Ms. Marilyn Macklin
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, Ohio 43216-1049
Fax Number (614) 728-1245

WISCONSIN

Ms. Cathy Burrow
Wisconsin Department of Natural Resources
101 South Webster Street
P.O. Box 7921
Madison, WI 53707-7921
Telephone Number (608) 266-6965
Fax Number (608) 267-2768

Revised 2/2008

Region 5 State UST/LUST Contact Information

ILLINOIS	
UST	**LUST**
Shelley Bradley, Manager Division of Petroleum & Chemical Safety Illinois Office of State Fire Marshal 1035 Stevenson Drive Springfield, Illinois 62703-4259 (217) 785-5878 or 785-1020 E-Mail: shelly.Bradley@illinois.gov Ken L. Wideman Deputy Fire Commissioner Chicago Fire Department 444 North Dearborn Street Chicago, Illinois 60610 (312) 744-4723	Illinois Environmental Protection Agency Fax: (217) 524-4193 or (217) 782-9290 State Web Page: www.epa.state.il.us/land/lust/indiex.html Hernando Albarracin, Manager Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Avenue East Springfield, Illinois 62702 (217) 524-2448 E-Mail: hernando.albarracin@illinois.gov
INDIANA	
Skip Power, Chief UST Section Office of Land Quality Indiana Department of Environmental Management 100 North Senate Avenue –IGCN-#1255 Post Office Box 6015 Indianapolis, Indiana 46206 (317) 308-3039 E-Mail: spowers@idem.in.gov	Craig Schroer, Chief LUST Section Office of Land Quality Indiana Department of Environmental Management 100 North Senate Avenue –IGCN-#1255 Post Office Box 6015 Indianapolis, Indiana 46206 (317) 234-0974 E-Mail: cschroer@idem.in.gov Note: IGCN= Indiana Government Center North
MICHIGAN	
George Bruchmann, Chief Waste and Hazardous Materials Division (UST) Michigan Department of Environmental Quality Town Center 333 South Capital Avenue – 2nd Floor Post Office Box 30157 Lansing, Michigan 48909-7657 (517) 373-9523 E-Mail: bruchmag@michigan.gov	Andy Hogarth, Chief Remediation and Redevelopment Division (LUST) Michigan Department of Environmental Quality Town Center 333 South Capital Avenue – 2nd Floor Post Office Box 30157 Lansing, Michigan 48909-7657 (517) 373-9837 E-Mail: hogartha@michigan.gov

Region 5 State UST/LUST Contact Information

MINNESOTA	
UST	**LUST**
Bob Dullinger, Supervisor Tank Compliance and Enforcement Unit Industrial Division Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, Minnesota 55155 (651) 297-8608 E-Mail: robert.dullinger@pca.state.mn.us	Sandeep Burman, Supervisor Petroleum Remediation Unit 2 Petroleum & Closed Landfill Remediation Section Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, Minnesota 55155 (651) 297-8583 E-Mail: sandeep.burman@pca.state.mn.us
OHIO	
Michael P. Bell, State Fire Marshal Ohio Department of Commerce 8895 East Main Street Post Office Box 687 Reynoldsburg, Ohio 43068-0687 (614) 752-8200 E-Mail: michael.bell@com.state.oh.us	Michael P. Bell, State Fire Marshal Ohio Department of Commerce 8895 East Main Street Post Office Box 687 Reynoldsburg, Ohio 43068-0687 (614) 752-8200 E-Mail: michael.bell@com.state.oh.us
Mike Fehrenbach, Director Petroleum Products and Tanks Bureau Division of Environmental and Regulatory Services Department of Commerce 201 W. Washington Avenue, 3rd Floor Post Office Box 7839 Madison, Wisconsin 53707-7839 (608) 266-8076 Fax: (608) 261-7725 E-Mail: mike.fehrenbach@wisconsin.gov	Mark Gordon, Director Policy and Technical Resources Section Bureau of Remediation & Redevelopment Wisconsin Department of Natural Resources Post Office Box 7921 Madison, Wisconsin 53707-7921 (608) 266-7278 Fax: (608) 266-7647 E-Mail: Mark.Gordon@wisconsin.gov

SEP 21 2009

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
AIR AND RADIATION DIVISION
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

Reply To The Attention Of:

SEP 17 2009

AR-18J

William Norris
ATC Associates
11121 Canal Road
Cincinnati, Ohio 45241

Re: Freedom of Information Act Request
05-RIN-01471-09

Dear Mr. Norris:

This is the Air and Radiation Division's (ARD) response to your Freedom of Information Act (FOIA) request dated September 11, 2009. You requested from the U.S. Environmental Protection Agency any and all information on the facility listed below:

Hudepohl Brewing
800 West 5th Street
or 801 West 6th Street or 505 Gest Street
Cincinnati, Ohio 45203

I have searched the ARD files and found no information pertaining to your request. You will receive separate responses from other divisions of EPA with regard to the facility listed above. If there are any charges for search, review, or reproduction of material, you will receive a combined bill from the Superfund Division of EPA. You may appeal this denial to the National Freedom of Information Officer, U.S. EPA, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, N.W. (2822T), Washington, DC 20460 (U.S. Postal Service Only), FAX: (202) 566-2147, E-mail: hq.foia@epa.gov. Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue, NW. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, N.W., Room 6416J, Washington, DC 20001. Your appeal must be made in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the RIN listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

While EPA retains Federal oversight of the air permitting programs, the actual issuance of any permits to a source that might apply to your request is the responsibility of a State or local agency. Currently, the Ohio Environmental Protection Agency (OEPA) issues State air permits. Any questions regarding the specifics of the permit conditions, status of permits, and any additional information relating to the issuance of permits should be directed to the State, as they have a complete record of all permits issued.

A copy of any air permits may be obtained by contacting Mike Hopkins of OEPA at (614) 644-3611 or mail your request to:

Mike Hopkins, Manager
Air Quality Modeling and Planning Section
Division of Air Pollution Control
Ohio Environmental Protection Agency
122 South Front Street
P.O. Box 1049
Columbus, Ohio 43215-1049

If you have any questions regarding this response, please contact me at (312) 353-8655.

Sincerely,

Noreen Weimer

Noreen Weimer
Freedom of Information Specialist
Air Permits Section

Super/LCD/AIR

(253153216) On-line FOIA Request
idaemon.rtpnc.epa.gov to: Group R5Foia 09/11/2009 02:32 PM

01_NAME_:William Norris
02_COMPANY_:ATC Associates
03_ADDRESS_:11121 Canal Road
04_CITY_:Cincinnati
05_STATE_:OH
06_ZIP_:45241
07_EMAIL_:Norris72@atcassociates.com
08_PHONE_:513-771-2112
09_FAX_:513-782-6908
10_SPECIFIC_INFORMATION_NEEDED_:Interested in any records for RCRA hazardous waste, CERCLIS or air emmisions for any years available related to following facility:

Hudepohl Brewing
800 West 5th Street
Cincinnati, OH 45203

May also be listed as 801 W 6th St or 505 Gest Street

11_FEE_:Other Specified Amount, $100.00
13_FeeWaiver_text:
15_ExpeditedWaiver_text

WARNING NOTICE
This electronic mail originated from a federal government computer system of the United States Environmental Protection Agency (EPA). Unauthorized access or use of this EPA system may subject violators to criminal, civil and/or administrative action. For official purposes, law enforcement and other authorized personnel may monitor, record, read, copy and disclose all information which an EPA system processes. Any person's access or use, authorized and unauthorized, of this EPA system to send electronic mail constitutes consent to these terms.

This information is for tracking purposes only.
Submitting script: /cgi-bin/mail.cgi
Submitting host: static-22-122-26-69.axsne.net (69.26.122.22)
Browser: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB6; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30)
Referred: http://www.epa.gov/foia/requestform.html
TSSMS: epafoia1
Mail to File: R5

SEP 11 2009

C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

SEP 29 2009

REPLY TO THE ATTENTION OF:
SRC-7J

William Norris
ATC Associates
11121 Canal Road
Cincinnati, OH 45241

Re: Freedom of Information Act
Request Identification Number: 05-RIN-01471-09
Site: Hudepohl Brewing, 800 West 5th Street, Cincinnati, Ohio 45203

Dear Mr. Norris:

This letter serves as the Superfund Division's response to your Freedom of Information Act (FOIA) request to the U.S. Environmental Protection Agency dated September 11, 2009. This request has been designated as a multi-program Combined Billing request.

The Superfund Division's searches have revealed no information that is responsive to your request. I regret that we are unable to assist you in this matter.

You may appeal this no information determination to the National Freedom of Information Officer, EPA, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, N.W. (2822T), Washington, D.C. 20460 (U.S. Postal Service Only), FAX: (202) 566-2147, E-mail: hq.foia@epa.gov. Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue, N.W. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, N.W., Room 6416J, Washington, D.C. 20001. Your appeal must be made in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the RIN listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

However, the nature of your request indicates documents may be available from two or more Offices and/or Divisions within Region 5. Each Office and/or Division involved in processing this request will provide you with a response. Charges may be applicable from each Office and/or Division processing your request.

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (50% Postconsumer)

You will be billed for the combined charges within 60 days from the date of your initial FOIA inquiry. If additional time is needed to respond to your request, you may receive a separate bill from the respective Divisions/Offices.

Superfund public dockets and Administrative Records may be obtained at the Superfund Record Center located at the EPA office in Room 711. The Record Center is open to the public Monday through Friday 8:00 am to 4: 00 pm. These documents can also be found online at http://www.epa.gov/region5superfund/sfd_foia.htm.

You may also wish to contact the appropriate state Agency from the enclosed list for information that might be available from their files

In an effort to improve our service to you, we are conducting a survey. Please complete the enclosed Customer Service Card and return it to us.

Should you have further questions regarding your FOIA request, you may contact me at (312) 886-6225. All other matters should be directed to Dr. Carolyn D. Bohlen, Chief, Documents Management Section at (312) 886-6541.

Sincerely,

Melvina M. Taylor
FOIA Specialist for Ohio
Documents Management Section
Superfund Division

Enclosures

cc: Region 5 FOIA Office, MRI-9J
FOIA File

http://cfpub.epa.gov/supercpad/cursites/srchrslt.cfm?start=1&CFID=5934844&CFTOKEN=70614343&jsessionid=4a30e259f520e832d650503726c71f3f5d2c6

Last updated on Tuesday, September 29th, 2009.

Superfund

You are here: EPA Home Superfund Sites Superfund Information Systems Search Superfund Site Information

Search Superfund Site Information

Search Results

Search Criteria:

Active vs. Archived:	***Active*** *What are active and archived sites?*
Site Name:	*HUDEPOHL BREWING*
Street Address:	*800 WEST 5TH STREET*
City:	*CINCINNATI*
State(s):	*Ohio*
Region(s):	*05*
ZIP Code:	*45203*

Found **0** site(s) that match your search criteria listed above.
To conduct another search, return to the **Search Superfund Site Information** page or request a **Customized SIS Report**.

OSWER Home | Superfund Home

URL: http://cfpub.epa.gov/supercpad/cursites/srchrslt.cfm
This page design was last updated on Thursday, August 13, 2009
Content is dynamically generated by ColdFusion

Bill Norris

From: Dinah Crawford [Dinah.Crawford@epa.state.oh.us]
Sent: Thursday, September 17, 2009 8:51 AM
To: norris72@atcassociates.com
Subject: Re: FW: FOIA Request - File Review Request from Web

I've checked with the divisions and we have No information on this site. I forwarded your request to Cindy Stanwick to check on spills, as their records are house in Columbus. You may have already heard from her.

>>> "Bill Norris" <norris72@atcassociates.com> 9/14/2009 9:57 AM >>>
Here is what I sent before on August 30. I would also like to add that in addition to the 801-837 West Sixth Street and 505 Gest Street addresses, this facility had an address at 800 West Fifth Street.

Your assistance is appreciated.

Thanks,

Bill

William A. Norris | Staff Geologist | ATC Associates Inc. | Cincinnati
(513) 842-3961 direct | (513) 383-4051 mobile

11121 Canal Road | Cincinnati, Ohio 45241

(513) 771-2112 tel | (513) 782-6908 fax |
<http://www.atcassociates.com/> www.atcassociates.com

ATC is a leader in developing innovative Environmental, Geotechnical/CMT/Special Inspections and Health & Safety solutions. View our <http://www.atcassociates.com/Movie.asp> video link to learn more.
PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your computer.

From: Bill Norris [mailto:norris72@atcassociates.com]
Sent: Sunday, August 30, 2009 6:19 PM
To: 'dinah.crawford@epa.state.oh.us'
Subject: File Review Request from Web

Dear Ms. Crawford:

I am conducting a Phase I Property Assessment per the Ohio Voluntary Action Program standard and am writing to request a review of any information your office may have on file for the below property.

Former Hudepohl Brewing Co.
801-837 West Sixth Street
Cincinnati, Hamilton County, Ohio 45203

At one time Hudepohl Brewing Co. was also listed under the address 505 Gest Street, Cincinnati, Ohio, so I would also ask that you include that address in this request.

I am interested in information that relates to possible handling and/or release of hazardous materials/petroleum into soil or groundwater so would like to specifically target the hazardous waste, solid and infectious waste, and DERR programs.

Please contact me at your earliest convenience to discuss my request. Thank you and best regards,

Bill Norris

William A. Norris | Staff Geologist | ATC Associates Inc. | Cincinnati
(513) 842-3961 direct | (513) 383-4051 mobile

11121 Canal Road | Cincinnati, Ohio 45241

(513) 771-2112 tel | (513) 782-6908 fax |
<http://www.atcassociates.com/> www.atcassociates.com

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your computer.

Ohio Department of Commerce

George V. Voinovich, Governor

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6450 Poe Avenue • Suite 104 • Dayton, OH 45414-2646
(513) 454-7500 • FAX (513) 454-7503

Nancy S. Chiles, Director

December 15, 1992

Mr. Louis G. Pohl
Pohl Realty
9 Corbin Drive
Cincinnati, OH 45208

RE: Hudepohl Brewery
800 Hudepohl Drive
Cincinnati, OH 45201
Hamilton County
Incident #3111022-00

Dear Mr. Pohl:

The State Fire Marshal, Bureau of Underground Storage Tank Regulations (SFM, BUSTR) has received information regarding the closure of the underground storage tank (UST) system (s) located at the aforementioned site. Our review of the analytical results and associated information indicates that you have met the current requirements for UST closure assessments. Regarding closure assessment activities at this site, BUSTR is not requiring any further action at this time.

Due to the information potentially not discovered or revealed, nothing in this letter should be interpreted as a guarantee or warrantee that no problem exist at the aforementioned site. In addition, this letter does not release the responsible party from future responsibility and liability under sections 3737.88 through 3737.89 of the Ohio Revised Code, other state laws and regulations under the Federal Clean Water Act, Resource Conservation and Recovery Act, or Comprehensive Environmental Response, Compensation, and Liability Act for remedying conditions resulting from any release of contaminants to the environment.

If you have questions about this determination, please contact me at (614) 752-7941.

Sincerely,

Raymond Roe
Environmental Manager

cc: File #3111022-00

REVIEWED BY: Brian Tarver
DATE REVIEWED: 11-12-92
INCIDENT NO.: 3111027
UST OWNER: Pohl Realty - Louis Pohl
UST OWNER ADDRESS: 9 Corbin Drive
Cincinnati OH
45208

REMOVAL DATE: Dec 26-27, 1990
NO. OF TANKS: 3
GALLON & SUBSTANCE STORED IN UST(S): 3000 gal Diesel
8000 gal Diesel
6000 gal. gasoline

	YES	NO
FIELD SCREENING (IF APPLICABLE)	☑	☐
CORRECT NUMBER OF SAMPLES * 3 HIGHEST IF SCREENED * ALL SAMPLES TAKEN (EG: UNDER EACH END OF TANK UNDER THE DISPENSER EVERY 20FT OF PIPING)	☑	☐

ADDITIONAL INFO:

APPROPRIATE TEST METHODS (8020 BTEX & 418.1 TPH)	☑	☐

ANALYTICAL RESULTS
(HIGHEST READINGS/RESULT IN PPB UNLESS INDICATED)

BENZENE	<5
TOLUENE	<5
ETHYLBENEZENE	<5
XYLENE	<5
TPH	<10

PROPER SOIL DISPOSAL * USED AS BACKFILL * LANDFILL — 232 yards * STOCKPILED AWAITING DISPOSAL	☑	☐

ADDITIONAL INFO:

RECOMMEND NFA STATUS ☑
APPROVED BY: K. Gall DATE: 12/3/92
SIGNATURE: [signature]

SUSPECTED RELEASE REPORT

REPORT # 3 1 1 1 0 2 2 . 0 0 . F Y 9 1 DATE: 5/13/91

[1] PERSON REPORTING THE RELEASE TIME: 11:00

NAME: Pat Frary TITLE: PHONE: (606) 341-6000

AGENCY/COMPANY: CARTEC Technical Consultants RELATION TO SITE: Consultant

ADDRESS: 618 Butternilk Pike CITY: Covington ST: Ky ZIP: 41017

REMARKS: Date indicates time report received by BUTTER

[2] SUSPECTED RELEASE LOCATION

MULTIPLE SUSPECTED SOURCES? ___ YES ✓ NO ___ UNDETERMINED COUNTY: Hamilton

FACILITY: Hudepohl Brewery FACILITY ID#: 31

ADDRESS: 800 Hudepohl Dr

CITY: Cincinnati ST: Oh ZIP: 45201 PHONE: ( )

UST OWNER: PHONE: ( )

UST OPERATOR: PHONE: ( )

REMARKS:

FIRE DEPT: CONTACT: PHONE: ( )

[3] CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE (*Check all that apply*)

___ Inventory control results di ate a release may have occurred.

___ Testing, monitoring or sam ir results indicate a release may have occurred.

___ Unusual operating conditions observed (e.g., sudden drop in tank volume).

___ Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).

___ Spill or overfill of petroleum in excess of 25 gallons.

___ Soil/Groundwater contamination discovered during non-closure related investigation.

✓ Closure (or replacement) assessment results indicate that a release has occurred.

OTHER CONDITIONS:

*******COMPLETE REVERSE SIDE*******

[10] REPORT DISPOSITION (*Indicate actions taken on reverse side*)

TAKEN BY: K. Gill EMERGENCY ACTION? ___ YES ✓ NO BY: ___ FM ___ OEPA ( )

COORD: Tarver REPORT/ACTION APPROVED: Kelly Gill DATE: 5/13/91

LOGGED BY: DS DATE: MAY 15 1991 ENTERED BY: ST DATE: MAY 15 1991

CIRCLE STATUS: RPT SUS DIS CON ICA ICR PRIORITY: 1 2 3 4 CLASS: A B C D LTF NON-LTF

ICG SAS SAC CAS CAP NFA

6

DATE FIRST SUBMITTED: ____/____/____ ___:___ ____

SUBSTANCE RELEASED/DETECTED: ___ GASOLINE ___ DIESEL FUEL ___ KEROSINE ___ USED OIL

___ OTHER PETRO ___ HAZ SUBST ___ UNKNOWN EST. DURATION: _____

MEDIA EFFECTED (*Check all that apply*): ____ SOIL ____ PAVEMENT ____ BASEMENT ____ SEWERS

____ GROUNDWATER ____ SURFACE WATER ___ OTHER: _____

LTF ELIGIBLE? ✓ YES ____ NO *If no, why?*: _____

[5] UST INFORMATION

FACILITY REGISTRATION CURRENT? __ YES __ NO __ UNKNOWN (*Attach USTR's for all facilities*)

NUMBER OF TANKS: ____ RELEASE DETECTION METHOD: _____

AGE	CAPACITY	-CONST.- MATERIAL	SUBSTANCE STORED	STATUS	AGE	CAPACITY	-CONST.- MATERIAL	SUBSTANCE STORED	STATUS
___	3,000	Steel	diesel	removed	___	_____	_____	_____	_____
___	4,000	"	"	"	___	_____	_____	_____	_____
___	4,000	"	gasoline	"	___	_____	_____	_____	_____

PROBABLE LOCATION OF RELEASE: TANK NO.__ PIPE BETWEEN _____ AND _____

PROBABLE CAUSE: _____

OTHER POTENTIAL SOURCES AT THIS LOCATION: _____

[6] SITE/HAZARD INFORMATION

IMPORTANT SITE OR SURROUNDING AREA CHARACTERISTICS: _____

PROXIMITY TO DRINKING WATER SOURCES: _____

OTHER FIRE/WATER/HEALTH HAZARDS AT THE SITE: _____

[7] INITIAL RESPONSE ACTIONS BY OWNER/OPERATOR (*Check all that apply*)

____ Release confirmation/Investigation	____ Initial site investigation
____ Initial corrective action procedures	____ Site/Assessment/Exposure Assessment
____ Free product removal	____ Unknown/undetermined
____ Long term corrective action plan	____ None

[8] WERE ANY OTHER AGENCIES NOTIFIED PRIOR TO BUSTR? (*As Reported*)

AGENCY: _____ NAME: _____ DATE: ___/___/___

[9] BUSTR ACTIONS TAKEN

CALLS TO: FD, LHD, LPW, ODH, OEPA/ER, OEPA/DPDW, OEPA/DGW, OTHER

CLOSURE ASSESSMENT REPORT

UNDERGROUND STORAGE TANK REMOVALS

N.I.C.

POHL REALTY - HUDEPOHL BREWERY

800 HUDEPOHL DRIVE
CINCINNATI, OHIO

Inc# 3111022

UNDERGROUND STORAGE TANK REMOVALS
CLOSURE ASSESSMENT REPORT

POHL REALTY - HUDEPOHL BREWERY
800 HUDEPOHL DRIVE, CINCINNATI, OH

1.0 INTRODUCTION

CARTEC Technical Consultants, Inc., has been retained to provide environmental consulting services for activities associated with the removal of three(3) underground petroleum storage tanks located at the old Hudepohl Brewery, 800 Hudepohl Drive, Cincinnati, Ohio. Cartec was responsible for the assessment of the site, consulting services for disposal/remediation of petroleum contaminated soils, soil sampling, laboratory analysis, and preparation of a closure assessment report.

The general information related to this underground storage tank removal project is provided as follows:

- SITE ADDRESS: 800 Hudepohl Drive
  Cincinnati, OH

- SITE USE: Warehouse for Hudepohl Schoenling Brewery
  (Property was the Hudepohl Brewery)

- PROPERTY OWNER: Pohl Realty
  c/o Louis G. Pohl
  9 Corbin Drive
  Cincinnati, Ohio 45208
  (513) 871-0604

- REMOVAL CONTRACTOR: Richard M. Roether Construction
  Contact: Mr. Richard Roether
  Certified Remover: Mr. R.H. Roether
  6917 Mullen Drive
  Cincinnati, OH 45247
  (513) 353-4601

- ENVIRONMENTAL CONSULTANT: Cartec Technical Consultants, Inc.
  Mr. Patrick Frary
  618 Buttermilk Pike
  Covington, KY 41017
  (606) 341-6006

- FIRE INSPECTION/PERMITTING AUTHORITY: Cincinnati Fire Department
  Mr. Jess Combs

- TANK CLEANING AND DISPOSAL: Bedford's Tank & Dump Service
  1711 Washington Circle
  Cincinnati, OH 45215
  (513) 821-1024

- LANDFILL FOR SOIL DISPOSAL: RUMPKE Waste, Inc.
  Hughes Road Landfill
  10777 Hughes Road
  Colerain Township, OH

TANK DESCRIPTION:	Tank 1	Tank 2	Tank 3
Location:	West Tank Field	East Tank Field	East Tank Field
Size:	3,000 gallon	8,000 gallon	6,000 gallon
Last Contents:	Diesel Fuel	Diesel Fuel	Gasoline
Tank Construction:	Steel	Steel	Steel
Cover Material:	Soil	Concrete	Concrete
Slab Below? :	no	yes	yes

The following report provides a detailed description of all tank removal, assessment, and remediation activities at this site.

2.0 TANK CONDITION, REMOVAL, AND DISPOSAL

The two tanks located in the eastern tank field were removed on December 26, 1990. The one, 3,000 gallon tank in the western tank field was removed on December 27, 1991. All possible product and/or water was pumped from the tanks prior to commencement of removal operations by Grubb Oil Company of Cincinnati. There was no remote piping or pump associated with the 3,000 gallon tank (west tank field). The pump, vent line, and product line were all located at the edge of the tank. The vent and product lines from the two tanks in the eastern tank field were short and totally encapsulated in a concrete conduit from the point that they left the tank bedding area.

The tanks were purged of flammable vapors using an eductor type air mover. The tanks were considered safe and removed from the excavation area when the atmosphere in the tank measured less than 10% of the Lower Explosive Limit (LEL). A Gastech Model 1314 LEL/O2 Meter was used to check the levels of flammable vapors in the tanks. The removal was witnessed by Mr. Jess Combs of the Cincinnati Fire Department.

An inspection of each of the three tanks was completed after they were removed from the ground. The 3,000 gallon tank removed from the western tank field was in excellent condition with almost no visible surface corrosion and absolutely no pitting or holes to suggest possible leakage.

The 6,000 gallon and 8,000 gallon tanks removed from the eastern tank field were in good condition with a moderate amount of surface corrosion but no deep pitting or holes were found.

The three tanks were transported to Bedford's Dump and Tank Service where the were cleaned and cut up. The metal from the tanks was then hauled to a scrap metal yard for recycling. Receipts to document tank disposal are provided in Appendix F.

3.0 ASSESSMENT OF TANK REMOVAL EXCAVATION AREAS

Immediately following the removal of the tanks from the site, the condition of each excavation area was assessed. Based on the results of the field assessment, applicable remedial measures were begun to mitigate any impact that the use of the underground storage tanks had on this site.

3.1 WEST TANK FIELD (3,000 Gallon Diesel UST)

All fill/bedding sand was excavated and stockpiled on plastic sheeting adjacent to the tank removal excavation area. The native soil was exposed over the entire excavation area.

An inspection of the excavation area was completed. There was no ground water, notable petroleum odor, or visibly contaminated soil present in the excavation. The walls and floor of the excavation were scanned with a Foxboro 128GC Flame Ionization Detector as described in Item 3.3 of this report. No detectable levels of flame ionizable compounds were noted in any area of the excavation.

The stockpile of excavated soil and bedding sand was also thoroughly scanned with the Flame Ionization Detector to determine if any petroleum product contamination was present. No significant levels of flame ionizable compounds were detected in the stockpile.

Soil samples were taken of the bottom native soil corresponding to the east and west ends of the 3,000 gallon tank. A third sample was taken of the native soil in the south west corner wall corresponding to the pump location. A representative sample of the stockpile material was also taken to document that it was free of petroleum contaminants. Soil sampling for the western excavation area was completed on December 27, 1990. Soil sampling methodology, field screening, preservation, and handling practices are discussed in Item 3.4 of this report.

3.2 EAST TANK FIELD (8,000 Diesel & 6,000 Gasoline USTs)

Immediately following the removal of the 8,000 and 6,000 gallon USTs from the site, the eastern removal excavation area was inspected. There was a moderate petroleum odor and visibly contaminated soil in the southern portion of the excavation area. The fill pipes were located at the south ends of the tanks and the contamination appeared to be the result of spillage or overfill. There was not sufficient room on the property to allow continued excavation and stockpiling of the contaminated soils, so excavation was stopped until approval to dispose of petroleum contaminated soils at an approved landfill could be obtained.

A representative sample of the petroleum contaminated soil was taken in a 500 ml. glass jar with teflon lined lid on December 26, 1990. The soil sample was transported under EPA chain-of-custody procedures to Cardinal Laboratories in Covington, Kentucky and submitted for the appropriate analysis for application to dispose of contaminated at Rumpke Landill in Colerain Township, Ohio. Laboratory analysis results were received on January 1, 1991 and a request for approval to dispose of the soil was made to Rumpke Waste, Inc. Approval to dispose of petroleum contaminated soils was received from Rumpke Landfill on January 1, 1991.

On January 2, 1991 all soil suspected to be contaminated with petroleum product was excavated from the west tank field, loaded directly into dump trucks and hauled to Rumpke Landfill in Colerain Township. The excavated soil was continually scanned with the Foxboro 128 Flame Ionization Detector to insure that the area was not over or under excavated. Excavation continued until no significant levels of flame ionizable compounds were detected in the material being removed.

An inspection of the excavation area revealed that the walls were all solid block and the bottom had an 8 inch thick concrete pad. The condition of the walls and pad could only help to prevent the migration of petroleum contaminants. The pump island was situated right at the eastern wall and the piping troughs were totally encapsulated in concrete. Any release of petroleum product from the pumps or piping would have had to flow directly back to the tank bedding field.

The excavation area was scanned with the FID as described in item 3.3 of this report. Special attention was paid to the edges of the concrete pad during scanning since that area would be most likely to reveal any petroleum product migration over the concrete pad and into the native soils. The pad was broken through on all four sides to reveal the native soil and allow for scanning with the FID. The only detectable levels of flame ionizable compounds were located in the south bottom area (maximum FID reading was 135 ppm). The block walls were also penetrated in several locations so the native soil could be scanned with the FID, but no significant levels of flame ionizable compounds to suggest petroleum contamination were detected.

The southern half of the concrete pad was removed to allow excavation of petroleum contaminated soil. Approximately three ft. of soil was excavated to insure that all petroleum contaminated soil had been removed and disposed of at Rumpke Landfill. The excavation area was again scanned with the FID as described in Item 3.3 of this report. There were now no significant levels of flame ionizable compounds detected in any portion of the excavation area.

Soil samples were taken of the eastern UST removal excavation area in accordance with the guidelines of the Ohio State Fire Marshal's Office. Soil samples were taken of the bottom corresponding to the north and south ends of each of the two tanks. Samples were not taken of the pump island or piping paths considering that the concrete trough would route any leakage or spillage back to the tank area. Sampling methodology, handling, and preservation practices are described in item 3.4 of this report.

3.2 Flame Ionization Detector Scanning Methods

The purpose of soil scanning was to locate suspect contamination and define points at which additional removal or soil sampling was needed. If scanning detected suspect contamination, then soil excavation and removal was continued. Excavation continued until scanning detected no significant levels of petroleum contamination, at which time soil sampling was performed.

When soil scanning, CARTEC utilized a Foxboro Model 128GC Flame Ionization Detector (FID). The FID is a sensitive instrument designed to measure trace quantities of organic materials in air. The flame ionization detector is an almost universal detector for organic compounds, especially hydrocarbons, with the sensitivity to measure in the parts per million (ppm) range. The FID is factory calibrated on a regular basis to insure accuracy. This instrument is checked routinely for field use using calibration gases in accordance with the manufacturers operating procedures.

CARTEC'S technique for soil scanning is to first measure ambient air with the FID to allow adjustments for background levels of flame ionizable compounds. Next, a 1/2 inch diameter metal rod is inserted approximately six inches into non-aerated native soil, thereby creating a vapor space. Then, the FID probe is inserted into the vapor space and a sample is drawn into the instrument. Flame ionizable compounds levels between 1 ppm and 1,000 ppm can be read.

All exposed surfaces of the excavation walls and floor were scanned. Scanning is concentrated in areas where soils are visibly discolored, partings in rocks are observed, shale and limestone interface occur, and high and low points of excavation. Special attention was given to the block walls an concrete pad in the eastern excavation area. The walls and pad were broken through in numerous places and the native soil scanned to insure that any petroleum product contamination would be detected.

3.3 Soil Sampling Methodology

When no significant levels of flame ionizable compounds were detected using the FID and when excavation ceased, soil sampling was completed. The location of soil samples taken conforms to regulatory guidelines. Samples were taken of the native soil/bedrock in the excavation area by first removing at least four (4) inches of surface material to reach the non-aerated soil/bedrock. The sampler, while wearing disposable latex gloves (gloves are changed after each sample), uses the lip of the sample container to loosen and force the soil into the container. In areas where the soil/bedrock was very stiff, a flat steel hand scraper was used to loosen the material. This hand scraper was washed with Alconox and water and rinsed with distilled water after each sample to prevent cross contamination. At no time was cross contamination possible since no contact is made with the sampler or contaminated sampling device. Bottles and VOA vials were filled as full as possible to prevent possible losses of volatile organics when opened for analysis. Soil samples were appropriately labeled and placed in an iced cooler for preservation.

At each sample location, three samples containers were used: the first container was a 250 ml. glass jar with teflon lined lid for TPH analysis, the second container was a 40 ml. VOA vial for BTEX or VOC analysis, and the third container was a ziplock plastic bag, filled only half full for field screening.

The field screening samples were placed in an available warm location to increase volatilization for a minimum of 10 minutes. After the elapsed time, the FID probe was poked through the wall of the plastic bag and a vapor sample of the headspace gasses was drawn into the FID and read. The results of the field screening with the FID are recorded on the chain-of-custody sheet (Appendix D). As a minimum, the three samples with the highest FID readings from each excavation area are submitted for laboratory analysis.

Soil samples were transported and handled according to EPA chain-of-custody procedures. Soil samples were submitted to Cardinal Laboratories, Inc. for analysis.

4.0 LABORATORY ANALYSIS

The soil samples were kept on ice and transported/handled according to EPA chain-of-custody procedures.

4.1 LABORATORY ANALYSIS TEST PARAMETERS

The samples were submitted for laboratory analysis for TPH (Total Petroleum Hydrocarbons) EPA Method SW-846-9071 and BTEX (Benzene, Toluene, Ethylbenzene, and Xylene) EPA Method SW-846-8020. All laboratory analysis was completed by Cardinal Laboratories, Inc. of Covington, Kentucky.

The laboratory detection limit for the TPH analysis was 10 mg/Kg. For the BTEX analysis, a lower laboratory detection limit of 5 ug/Kg was used.

4.1 LABORATORY ANALYSIS RESULTS

Laboratory analysis data sheets are provided in Appendices B and C. The results indicate that no detectable levels of the petroleum constituents tested for are present in the samples.

6.0 CONCLUSION

Based on the field inspection, scanning, and laboratory analysis of soil, this site is now free of detectable levels of petroleum contamination.

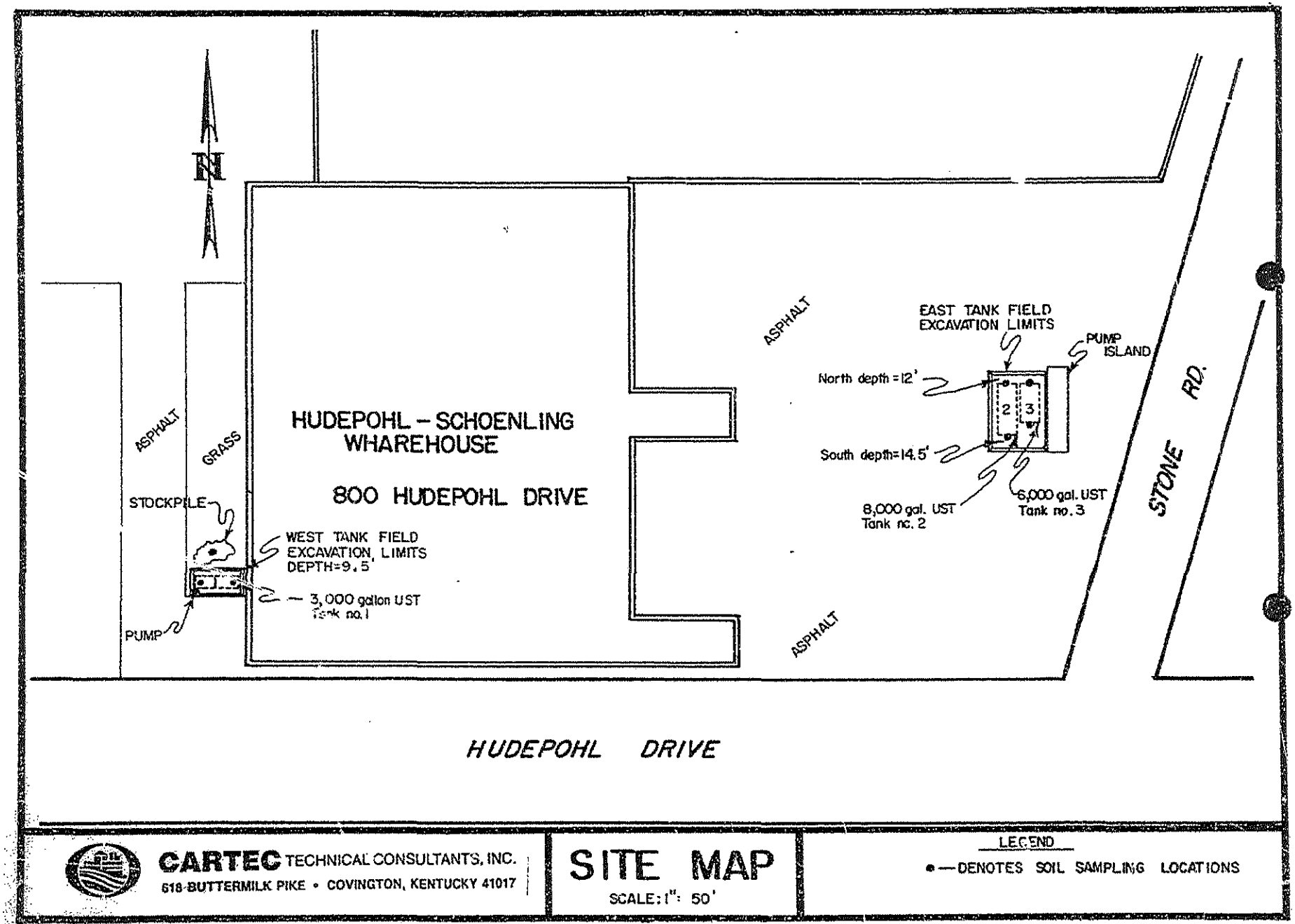
No petroleum product contamination was found in the western excavation in the vicinity of the removed 3,000 gallon diesel fuel UST. Laboratory analysis of the native soils and stockpiled bedding material documents that this UST did not adversely impact this site.

In the eastern excavation area, where the 8,000 and 6,000 gallon USTs had been removed, it is evident that only minor petroleum product contamination was present. It is suspected that the petroleum contamination was the result of minor leakage or spillage and remained confined to the immediate tank field area affecting only the bedding sands and shallow soils. No evidence of tank leakage was found.

The removal contractor has successfully excavated all soils suspected to be contaminated with petroleum hydrocarbons. All soil removed from the excavation was disposed of at Rumpke Landfill in Colerain Township, Ohio. A total of 232 cubic yards of petroleum contaminated soil was excavated in the eastern removal area and properly disposed of. Disposal receipts are provided in Appendix E.

Appendices follow to document all removal activities.

If there are any questions concerning this Closure Assessment Report, please contact CARTEC Technical Consultants, Inc.



CARTEC TECHNICAL CONSULTANTS, INC.
618 BUTTERMILK PIKE • COVINGTON, KENTUCKY 41017

SITE MAP

SCALE: 1" = 50'

LEGEND

● — DENOTES SOIL SAMPLING LOCATIONS

LEPC

Hamilton Coun .nergency Planning Committee
Emergency Planning and Community Right-to-Know
2000 Radcliff Drive
Cincinnati, OH 45204

FOR OFFICE USE ONLY
1. Date of Request 8-31-09
2. Request Number
3. Date Sent to Requester

FAXED

Information Request Form

Sections 311, 312 and 324 or Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) mandate that the public shall be provided access to facility specific chemical inventories, material safety data sheets (MSDS) and local emergency response plans. An individual may request the nonconfidential information in a facility file by appointment. Copies will also be made available upon request. The State Emergency Response Commission may charge a reasonable fee to cover the cost of copying, shipping and accrued costs for computer searches. These fees must be paid before receiving the requested materials. There will be no charge for reviewing a facility file if no copies are requested.

1. FACILITY IDENTIFICATION

County Hamilton
Name of Facility former Hudepohl Brewery
Street Address 801 West Sixth St & 505 Gest St
City, State, Zip Cincinnati, Ohio 45203

2. STANDARD INFORMATION REQUESTS

Please check the appropriate box (es)

☒ Section 304 information of release or spill reports on record with the SERC.
☒ Completed chemical inventory and location form.
☐ Copy of MSDS for a specific chemical (s)

The Local Emergency Planning Commission and State Emergency Response Commission will make a good faith effort to provide the requested information within 45 days. Under State of Ohio and SERC rules, personal information below this line will be considered confidential, if so requested. However, this information may be subpoenaed or otherwise obtained by court action.

3. REQUIRED GENERAL INFORMATION ABOUT PERSON MAKING REQUEST:

Please Print
Name William Norris
Company ATC Associates Inc.
Street Address 11121 Canal Rd.
P.O. Box _____ City, State, Zip Cincinnati, OH 45241
Telephone Number (include area code) (513) 771-2112

I understand there may be a fee to cover copying, computer costs and shipping

Signature William A Norris Date 8/31/09

4. OTHER INFORMATION ABOUT THIS REQUEST:

Requests for copies of TIER II inventory information or Material Safety Data Sheets for substances stored at the facility in quantities of less than the assigned Threshold Planning Quantity (TPQ) for extremely hazardous substances or the 10,000 pounds TPQ for hazardous substances, MUST include a written statement explaining why the information is needed.

Required for completion of Phase I Property Assessment at request of property owner.

RETURN THIS FORM TO:
Hamilton County, OH Emergency Planning Committee (LEPC)
Emergency Planning and Community Right-to-Know
2000 Radcliff Drive
Cincinnati, OH 45204
Fax: 513-263-8222

FACSIMILE

Cincinnati Health Department
Waste Unit
3845 William P. Dooley By-Pass
Cincinnati, OH 45223
Phone: 513.564.1780
Fax: 513.564.1776

Name: Bill Norris

Organization: ATC

Fax: 782-6908

Phone: 771-2112 x259

From: Rick Thornburg -564-1785 phone

Date: 9/10/09

Subject: Phase I

Pages: (including cover) 2

Comments:

Confidentiality Notice

These documents accompanying this telecopy transmission contain confidential information belonging to the sender which is legally privileged. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or taking of any action is reliance on the contents of this telecopied information and is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone at (513) 564-1780 to arrange for return of the original documents to us.

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

11121 Canal Road
Cincinnati, OH 45241-1861
www.atc-enviro.com
513) 771-2112
FAX (513) 782-6908

September 9, 2009

Cincinnati Health Department
3101 Burnet Avenue
Cincinnati, Ohio
FAX . (513) 564-1776

RE: Records Search

To Whom It May Concern:

I am conducting an environmental site assessment of the below referenced property. I would like to request any information your department may have regarding current or past violations, citations, or complaints for the site related to solid or hazardous waste, landfills, spills, dumping, etc. or the presence of on-site groundwater wells or septic systems.

Former Hudepohl Brewery,
801 to 827 West Sixth Street (odd numbers only) and
800 to 824 West Fifth Street (even numbers only)
Cincinnati, OH 45203

No CSR into the complaint in '01
event# Gest → Customer Service Response Database since '99

I can be reached at the following address and/or telephone numbers:

ATC Associates
11121 Canal Road
Cincinnati, Ohio 45241

Voice: (513) 771-2112 x259
FAX: (513) 782-6908

If you have any questions, please do not hesitate to call me. Thank you for your efforts.

Sincerely,

ATC ASSOCIATES INC.

Bill Norris

Bill Norris
Staff Geologist

We have an ancient record of a water well at the property that indicates the well was no longer in use. There was no date provided in the record. Fifteen years ago, CHD personnel visited every location in that record to attempt to locate all wells. We did not find a well at that location.

Bill Norris Cincinnati Office of Environmental Quality

From: Wachter, Jack [Jack.Wachter@cincinnati-oh.gov]
Sent: Monday, September 14, 2009 11:29 AM
To: norris72@atcassociates.com
Subject: RE: Records of old Hudepohl site

Hi Bill,

My boss (Bonnie Phillips) saved me some work. Before she met with Mike last week she checked our files and could not find anything about this site. Sorry.

Jack

From: Bill Norris [mailto:norris72@atcassociates.com]
Sent: Monday, September 14, 2009 10:21 AM
To: Wachter, Jack
Subject: Records of old Hudepohl site

Hi Jack,

Looks like we are involved with the owners of the old Hudepohl plant on West Sixth Street and with the City (Sam Stephens) to try to get a Clean Ohio Grant. I was wondering if your department had anything on file? The place has had a bunch of addresses over the years: 801-837 West Sixth Street, 505 Gest Street, and 800 West Fifth Street. We're only involved with a small part of the original site and I'm finding it hard to get any good, specific records. Hope you can help.

Thanks,

Bill

William A. Norris | Staff Geologist | **ATC Associates Inc.** | **Cincinnati**
(513) 842-3961 direct | (513) 383-4051 mobile

11121 Canal Road | Cincinnati, Ohio 45241
(513) 771-2112 tel | (513) 782-6908 fax | www.atcassociates.com

ATC is a leader in developing innovative Environmental, Geotechnical/CMT/Special Inspections and Health & Safety solutions. View our video link to learn more. PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your computer.

City of Cincinnati

SEP 30 2009

Cincinnati Fire Department
Fire Administration Building
430 Central Avenue
Cincinnati, Ohio 45202-2633

Robert Wright
Fire Chief
www.cincyfire.com

City of Cincinnati
City Hall
801 Plum Street
Cincinnati, Ohio 45202-2633

Milton Dohoney, Jr.
City Manager
www.cincinnati-oh.gov

September 28, 2009

ATC ASSOCIATES INC
11121 CANAL ROAD
CINCINNATI, OHIO 45241-1861

ATTENTION: Bill Norris, Staff Geologist

Reference: See attached address Listing:

- ☐ No record of dispatch for fire/EMS run
- ☐ No record of hazardous materials and/or spills
- ☐ No record of underground or aboveground tank activity
- ☐ The locations is out of the City of Cincinnati jurisdiction
- ☑ All incidents regarding the referenced addresses are included
- ☐ An absolute address is needed in order to investigate your request

If we can be of further assistance to you, please contact us at (513) 357-7584 or fax us at (513) 357-7579.

Sincerely,

Cheryl J. Treyor

Cincinnati Fire Prevention Bureau
Permits Program
3300 Central Parkway, Lobby B
Cincinnati, OH 45225

Equal Opportunity Employer

ATC
ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

11121 Canal Road
Cincinnati, OH 45241-1861
www.atc-enviro.com
513) 771-2112
FAX (513) 782-6908

September 25, 2009

Cincinnati Fire Department
Fire Prevention Office
Cincinnati, Ohio
FAX (513) 357-7579

RE: File search for address in Cincinnati, OH

To Whom It May Concern:

I am conducting an environmental site assessment of the below-referenced property. I would like to request any information your department may have regarding fires, spills, on-site underground storage tanks, or environmental responses to the site.

801 to 827 West Sixth Street (odd numbers only) and
800 to 824 West Fifth Street (even numbers only)
Cincinnati, OH 45203

I can be reached at the following address and/or telephone numbers:

ATC Associates
11121 Canal Road
Cincinnati, Ohio 45241

Voice: (513) 771-2112 x261
FAX: (513) 782-6908

If you have any questions, please do not hesitate to call me. Thank you for your efforts.

Sincerely,

ATC ASSOCIATES INC.

Bill Norris

Bill Norris
Staff Geologist

rint Date: 09/28/2009

NFIRS.NET FULL INCIDENT REPORT

Cincinnati Fire Department

ıcident Date	Cad #	Exp #	Location	Closed	Incident Type
5/08/2007	07159054	0	Street address	Yes	Sprinkler activation, no fire - unintentional

ddress

800 W FIFTH ST

INCINNATI Ohio 45202

Closed by 10739 BATTLE MICHAEL T

Alarm: 6/8/07 9:38

Arrive: 6/8/07 9:42

Controlled:

Clear: 6/8/07 10:08

Aid Type: None

Aid FDID:

Aid Incident #:

Property $ Loss: 0.00

Content $ Loss: 0.00

Casualties:

	Fire	Other
Injuries:	0	0
Deaths:	0	0

	Suppression	EMS	Other	
App Count:	2	0	0	No
Person Count:	8		0	

Detector: Unknown

Hazmat Release: None

Mix prop: Not mixed use

Workers using forklift accidentially knocked off sprinkler head. System shut down and occupants advised to call sprinkler company to repair.

Incident Actions Taken

Shut down system

Apparatus Information

Exposure	Seq	ID	Dispatched	Arrive	Cleared	#people	Desc
0	2	E23	6/8/2007 9:38:00AM	6/8/2007 9:42:00AM	6/8/2007 10:08:00AM	4	Suppression
0	1	T29	6/8/2007 9:38:00AM	6/8/2007 9:42:00AM	6/8/2007 10:08:00AM	4	Suppression

FORM NO 5M 6-63

Cinti Bldg Div

4

CITY OF CINCINNATI

DEPARTMENT OF SAFETY DIVISION OF BUILDINGS

PLAN NUMBER

1190 MAY 1964

PERMIT APPLICATION FOR COMMERCIAL OR INDUSTRIAL BUILDINGS AND NON RESIDENTIAL LAND USES

800 Blk W 5th St

1. Street and Number 800 FIFTH & STONE ST. ~~[illegible]~~
2. Subdivision _____ Lot No. _____
3. Owner's Name HUDEPOHL BREWING Address 40 E. McMICKEN Phone 721-7273
4. Plans by NELSON FELSBERG ARCHITECT Address 2965 MONTANA AVE. Phone 662-0600
5. Contractor's Name ELISHA HILL Address 809 GREENWOOD LANE Phone 752-2417
6. Is this a new building ☐, alteration ☐, addition ☐ 7. How many stories? _____ 8. Estimated Cost $1800.00
9. Construction Material: Concrete ☐; Steel ☐; Brick ☐; Frame ☐; Other ☐ 10. State floor load per sq. ft. _____
11. Type of foundation. Poured Concrete ☑; Concrete Block ☐; Other ☐ 12. Kind of soil for footings. Solid ☑ Filled ☐
13. Is a new heating system to be installed? Yes ☐ No ☐ If yes, where located? _____ A separate heating permit is required
14. Describe briefly proposed work INSTALL TWO UNDERGROUND W/L STORAGE TANKS (6,000 - 8,000 GAL)
15. Will any automobile, truck, or self-propelled vehicle enter this building? Yes ☐ No ☐
16. State in detail all existing and proposed uses of this building and premises TRUCK TERMINAL REFUELING STATION
17. Are uses stated on line 16 listed on reverse side of application? Yes ☑ No ☐. If yes, follow instructions on reverse side of application.
18. Will uses stated on line 16 be for products or services retailed primarily from the premises? Yes ☐ No ☑
19. Will any operation in the use of this building or premises(principal, accessory or incidental) be obnoxious or offensive by reason of the emission of odor, dust, smoke, gas, fumes, water-carried waste, noise or vibration? Yes ☐ No ☑ If yes, will such uses be controlled in accordance with all applicable provisions of the Code of Ordinances? Yes ☐ No ☐
20. What percentage of the total actual floor area will be occupied by mechanical equipment? _____

The owner of this building and undersigned, do hereby covenant and agree to comply with all the laws of the State of Ohio and the ordinances of the City of Cincinnati, pertaining to building and buildings, and to construct the proposed building or structure or make the proposed change or alteration in accordance with the plans and specifications submitted herewith, and certify that the information and statements given on this application, drawings and specifications are to the best of their knowledge, true and correct.

21. Application by Robert M. Etson Address TRESLER OIL CO. 4050 RIVER RD.
Owner's or Agent's Signature

CERTIFICATION OF ENGINEERS

Date Permit Issued JAN 8 1964 Number BE 4617 Permit Fee $ 18.75

I have examined the foregoing application, plans and specifications and with the corrections noted on the plans approve them for permit.

Temporary Permit Issued _____ by _____ Approved by NO Soil Inspection Req'd. YES

Chimney approved by NO Date 5-15-64

Combined sewer ☐; Sanitary sewer ☐; Storm sewer ☐; Septic tank ☐; approved by NO

Total floor area, Sq. Ft. _____ Contents of building, Cu. Ft. _____

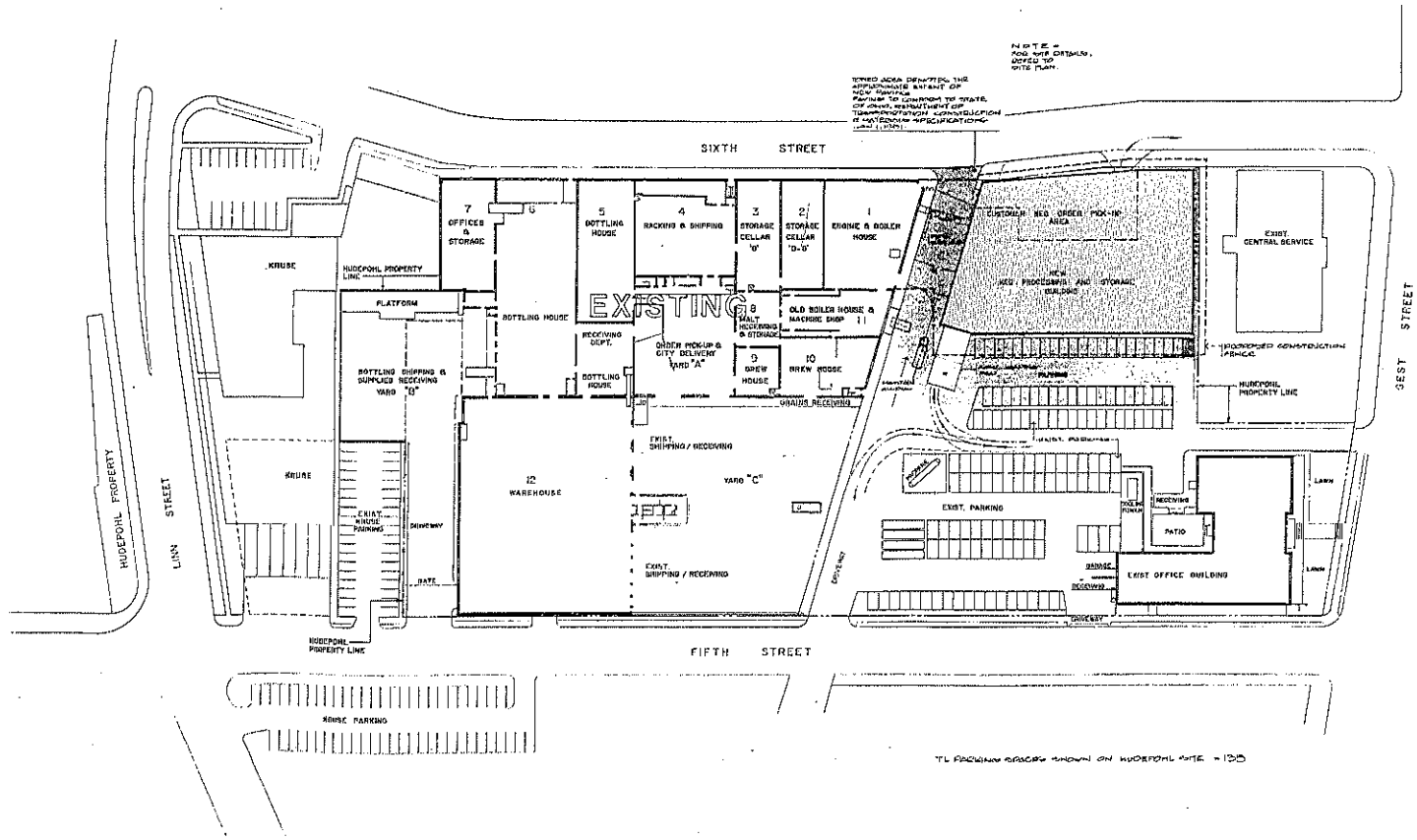
CERTIFICATION OF ZONING

I have examined the foregoing application, plans and specifications and with the corrections noted on the plats and plans approve them for permit.

District [illegible] Master Plan Interference? _____ Zoning Engineer [illegible]

Date _____

B 10-28-09



DO NOT SCALE THIS DRAWING FOLLOW DIMENSIONS

GENERAL NOTES ON DWG. No. _____ APPLY TO THIS DRAWING

KAPPELE WRIGHT & MACLEOD INC.
ENGINEERS
CINCINNATI AND PHILADELPHIA

ASSOCIATE ARCHITECTS
JAMES D. VICHMAN & ASSOCIATES
ARCHITECT
CINCINNATI

DATE MARCH 26, 1984
DRAWN M.C.
ENGINEER C.A.S.
CHECKED C.A.S.
MATERIAL
APPROVED
SCALE 1" = 80'-0"

THE HUDEPOHL BREWING COMPANY
CINCINNATI OHIO

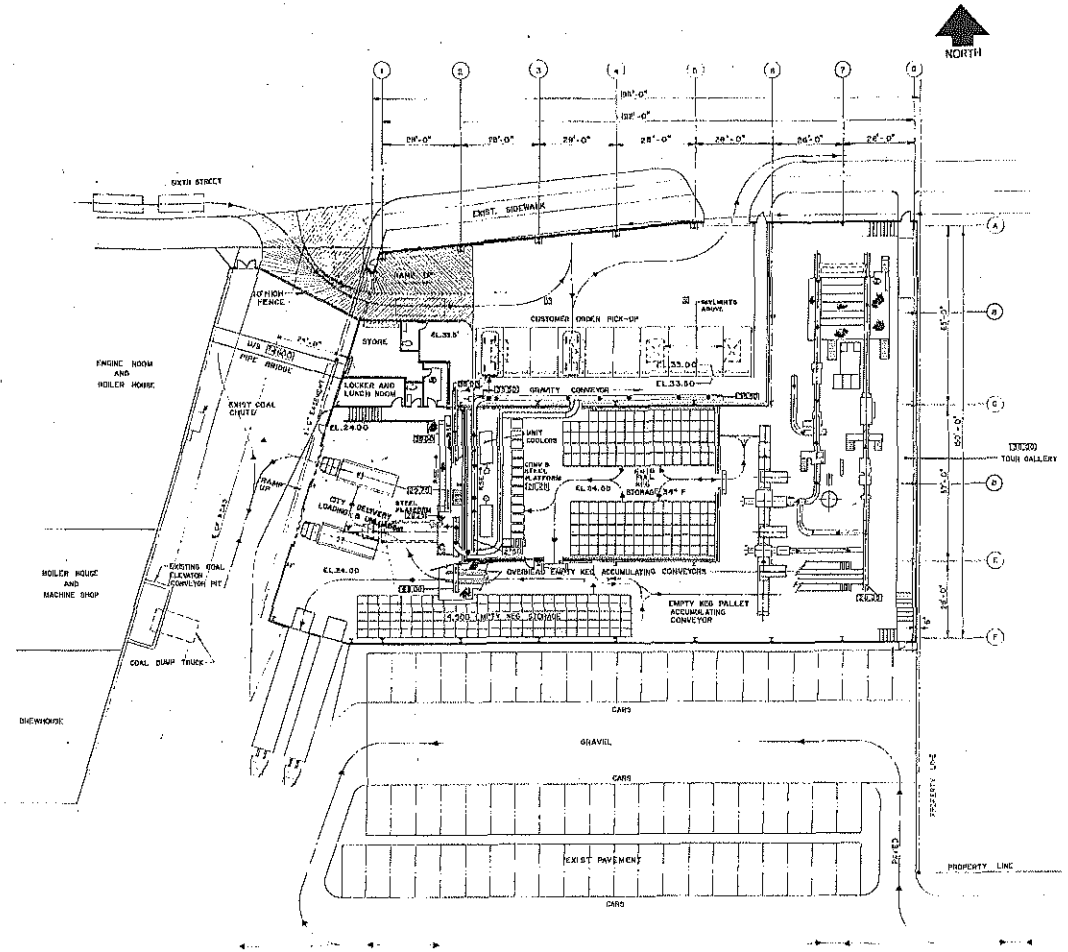
NEW KEG ROOM
PLOT PLAN

DEPT. ARCHITECTURAL
PROJECT NO. 3070
SHEET NO. 1 OF 9

50-82-01A REV B

Cincinnati Bldg. & Inspections Div.

10-82-02 3



PROCESSING AND STORAGE AREA	22,600 SQ. FT.
KEG PICK-UP AREA	9,300 SQ. FT.
TOTAL BUILDING AREA	31,900 SQ. FT.

DO NOT SCALE THIS DRAWING FOLLOW DIMENSIONS

GENERAL NOTES ON DWG. No. ..... APPLY TO THIS DRAWING

KAPPELE WRIGHT & MACLEOD INC.
ENGINEERS
TORONTO AND PEMBROKE

THE HUDEPOHL BREWING COMPANY
CINCINNATI OHIO

NEW KEGGING FACILITIES
GENERAL LAYOUT

10-82-02 3

Cincinnati Bldgs & Inspections Div

City of Cincinnati

Cert. Bldg
D.V

Department of Public Works
Division of Engineering

Room 440, City Hall
801 Plum Street
Cincinnati, Ohio 45202

John Hamner
Director

Prem Garg, P.E.
City Engineer

December 2, 1994

Permission is hereby granted to Golden Mark Inc., 801 W. Sixth Street, Cincinnati, Ohio 45202, telephone phone number 723-9494, contact person, H. Wesley Cushman, president, to block 50 lineal feet (100%) with a crane and barrels for the purpose of removing tanks from the old Hudepohl brewery at 801 W. Sixth Street.

This permit will be in effect from December 5, 1994 to February 5, 1995.

Permittee shall notify both Police at 352-2993 and Fire Department at 352-2328 of his intentions before beginning work under this permit.

Permittee by acting under this permit assumes all responsibility for the safety of passing pedestrians and motor vehicles and shall take suitable precautions to insure their protection. Signage indicating *"CROSSWALK CLOSED AHEAD"* and directing pedestrian traffic to the nearest crosswalk must be used.

This permit is void unless it is kept at the work site during working hours.

All work done under this permit shall be in strict compliance with all laws and ordinances of the City of Cincinnati and under the direction and to the satisfaction of the City Engineer and shall involve no cost or liability to the City of Cincinnati.

The issuance of this permit does not relieve the said Golden Mark Inc. of the responsibility of obtaining permits which may be required by other City departments.

The said Golden Mark Inc. agrees to the terms and conditions thereof and guarantees to save the City of Cincinnati free from any and all damages and claims arising from the issuance of this permit, or from any work done thereunder.

This permit is revocable at any time by the Director of Public Works or the City Engineer and if so revoked, all work shall cease immediately.

If you have any questions regarding this permit, please call Engineering Technical Support at 352-4500.

Jim Stamm Comm for Prem Garg

Prem Garg, P.E.
City Engineer

Equal Opportunity Employer

Cinti. Bldg Div

BUILDING CONSTRUCTION INSPECTION
COURT SUMMARY SHEET

LOCATION: 801 W. 6th Street

OWNER: Patricia A. Osborne

VIOLATION: Failure to comply with lawful order of the Director of Buildings and Inspections Section 1101-63, Cincinnati Building Code. Three orders were issued and two orders remain pertaining to safety.

SUMMARY:

8/ 3/95 - Fire in building, cork smoldering, Cincinnati Fire Division responsded

11/15/95 - Received letter from H. Wesley Cushman

2/ 1/96 - Orders issued

3/ 1/96 - Public hearing, H. Wesley Cushman said work would be completed in forty-five days

3/27/96 - Fire in building, cork smoldering, Cincinnati Fire Division responded

Number of inspections made - over 100 inspections since April 24, 1993.

City of Cincinnati

Department of Buildings and Inspections
Division of Building Construction Inspections

Direct Reply To:
Randy Malone
File No. S-2193

Room 338, City Hall
801 Plum Street
Cincinnati, Ohio 45202
Phone (513) 352-6218
Fax (513) 352-1398

December 2, 1996

William V. Langevin, R.A.
Chief Building Official Director

Paul E. Myers
Assistant Director
Building Construction Inspections

Pat Osborne
441 Commonwealth Street
Erlanger, KY 41018

In re: 801-C W. 6th Street
being a building located
in the City of Cincinnati

Dear Madam:

You are hereby notified that the above mentioned building does not conform to the requirements of the Cincinnati Building Code. In order to comply with said Building Code, you are required to make the following changes, viz:

1. Have demolition contractor obtain a permit to finish illegal start of demolition on building 801-C. Permit will be issued only with performance bond to ensure completion of demolition within permitted time period per Section 1101-49, Cincinnati Building Code. Failure to comply with orders within time frame could be a civil offense infraction (Class D).

It has been estimated that a reasonable length of time in which to complete the work outlined above is December 12, 1996. In order to make sure that the work is started on time to meet this date, we ask that you call Mr. Malone at 352-4792, between 8:00 and 9:30 a.m., Monday thru Friday, and make an appointment to meet him.

If we fail to hear from you within ten (10) days from the date of this notice, a copy will be posted on the premise as required by Section 1101-49 of the Cincinnati Building Code.

Sincerely,

Randy Malone

Randy Malone
General Building Inspector

RM:vlb

Enclosures

Equal Opportunity Employer

City of Cincinnati

e ails

Detailed Information for Project/Case#:**2005P01770 at 801 W 6th st, Cincinnati**

Please select the relevant tab below to view more information.

General Information | Approvals | Inspections

Inspections:

Items Approved:

The following table lists Items Approved: along with the most current action taken on the Item.Items may be linked to a history of prior comments.This list of comments can be viewed by clicking on the Item link if present.

Item	Date:	Action	Comments
999-Supervisor Approval	10/11/2005	EXPIRED	
367-Fondation Hole Inspection	10/10/2005	EXPIRED	
990-Final Permit Inspection	10/10/2005	EXPIRED	new permit will be needed
210-Demolition Startup Inspection	6/13/2005	Approved	Work in progress.
200-Pre-Demolition Inspection	5/16/2005	Approved	no prot. needed

Copyright © 1999-2009 Cagis. All rights reserved. Terms of Service | Privacy Policy

City of Cincinnati

Detailed Information for Project/Case#:**2005P01770 at 801 W 6th st, Cincinnati**

Please select the relevant tab below to view more information.

General Information | Approvals | Inspections

General Information:

Type	Wrecking Combo Permit
Sub Type	Demo Commercial
Title	
Description	WRECK COMMERCIAL BLDG
Location	801 W 6TH ST
Parcel Number	013600040243

Key Dates:

Applied Date	Tuesday, February 08, 2005
Current Status	CLOSED
Status as of	

Copyright © 1999-2009 Cagis. All rights reserved. Terms of Service | Privacy Policy

e City of Cincinnati ails

Detailed Information for Project/Case#:**2005P08351 at 801 W 6th st, Cincinnati**

Please select the relevant tab below to view more information.

General Information | Approvals | Inspections

Inspections:

Items Approved:

The following table lists Items Approved: along with the most current action taken on the Item.Items may be linked to a history of prior comments.This list of comments can be viewed by clicking on the Item link if present.

Item	Date:	Action	Comments
999-Supervisor Approval	5/26/2006	Approved	
900-Final Grading Inspection	5/12/2006	Approved	Substantially meets code
990-Final Permit Inspection	5/11/2006	Approved	Substantially meets code
10-Grading Inspection	4/3/2006	Approved	Substantially meets code
20-Soil Inspection	1/24/2006	Approved	Substantially meets code

Copyright © 1999-2009 Cagis. All rights reserved. Terms of Service | Privacy Policy

City of Cincinnati

e ails

Detailed Information for Project/Case#:**2005P08351 at 801 W 6th st, Cincinnati**

Please select the relevant tab below to view more information.

General Information | Approvals | Inspections

General Information:

Type	Excavation/Fill Permit
Sub Type	Commercial Excavation/Fill
Title	
Description	EX & FILL
Location	801 W 6TH ST
Parcel Number	013600040243

Key Dates:

Applied Date	Tuesday, October 18, 2005
Current Status	CLOSED
Status as of	

Copyright © 1999-2009 Cagis. All rights reserved. Terms of Service | Privacy Policy

Appendix K

Records of Communication

ATC ASSOCIATES, INC.

RECORD OF VERBAL COMMUNICATION

Date: 9/11/09 ***ATC Project No./Reference:*** 72.39245.0001

Time: 2:50 p.m. ***Project Name:*** Phase I ESA – Former Hudepohl Site, W. 6th St., Cincinnati, OH

ATC Contact Person: William Norris

Contact: Rick Thornburg

Telephone Number: (513) 564-1785

Company: Cincinnati Health Department

How Initiated: Telephone _X__ Personal _____ Other_____

Summary:

I called Mr. Thornburg to clarify his earlier FAX response to my information request. CSR stands for the "Customer Service Response" database which includes complaints since 1999. No records were in the database for the site. One complaint regarding tires was listed in the area for an even numbered address on Gest Street. He didn't remember the exact address.

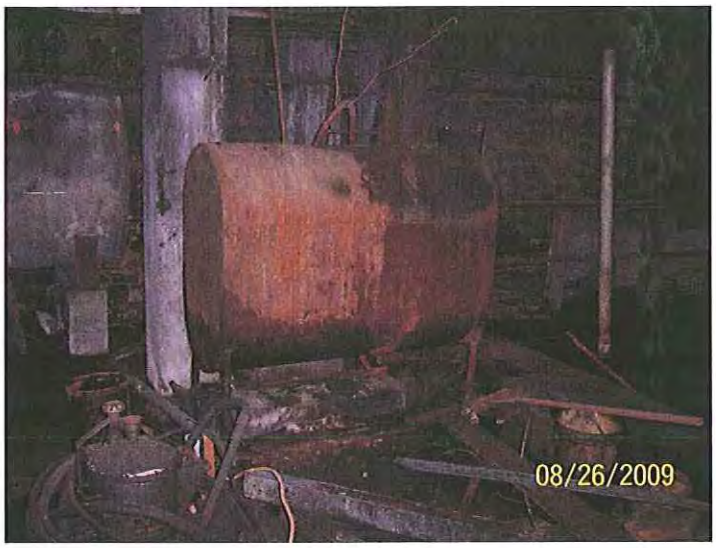
ATC Contact Signature William G Norris

Appendix L

Property Photographs

Photograph 1: Looking southwest at Building 1 (former boiler and engine house) at corner of West 6th and Stone Streets.

Photograph 2: View of transformer and coal chute on east side of Building 1.



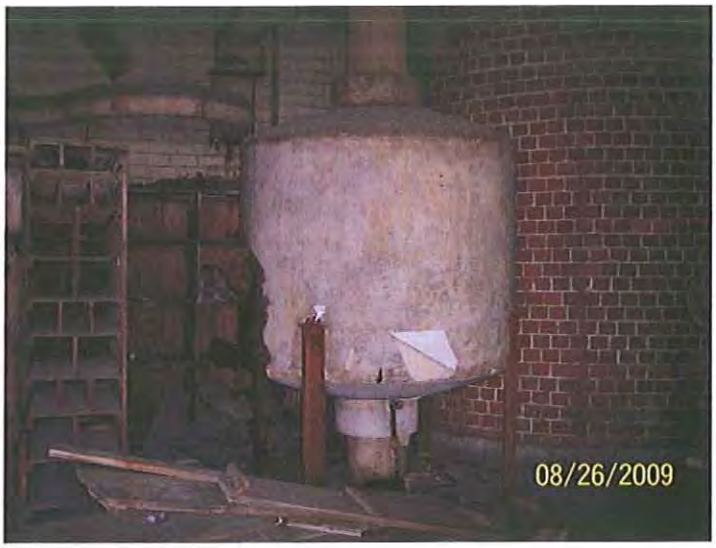
Photograph 3: View of AST located in basement of Building 1. Use not known.

Photograph 4: View of stained concrete on 2nd floor of Building 1.

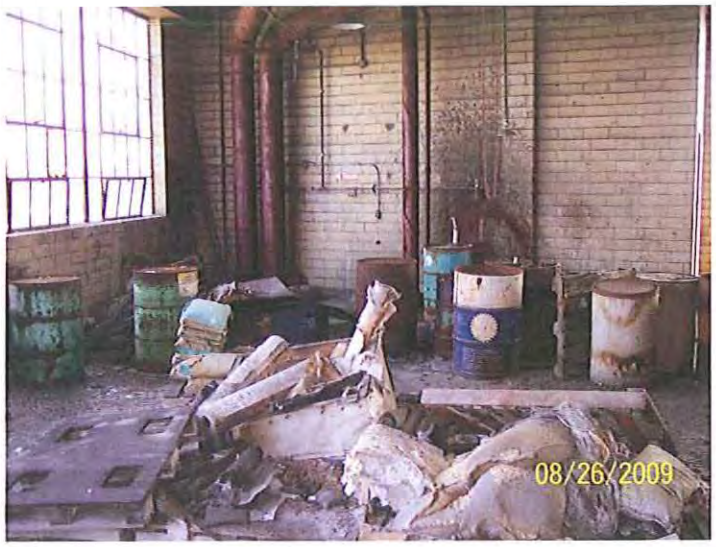
ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09



Photograph 5: View of insulated mechanical system tank on 2nd floor of Building 1.



Photograph 6: View of lubricant and boiler water treatment chemicals located on 3rd floor of Building 1.

Photograph 7: View of the roof and cooling tower of Building 1.

Photograph 8: View of mini-transformers associated with a former Hudepohl sign on the roof of Building 1.

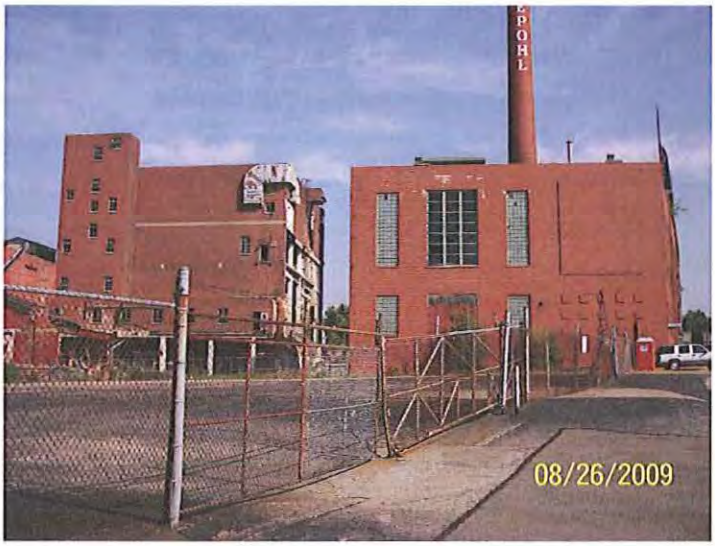
ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09

Photograph 9: View of "transite" debris located on the roof of Building 1.

Photograph 10: Looking west-northwest at Buildings 10 (left) and 11 (right) from Stone Street.



Photograph 11: Looking north at Building 10 from Stone Street.

Photograph 12: Looking east at Buildings 10 (right) and 11 (left) from Yard A.

ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09

Photograph 13: View of coal chute on east side of Building 11.

Photograph 14: View of interior 1st floor of Building 11 near boilers.

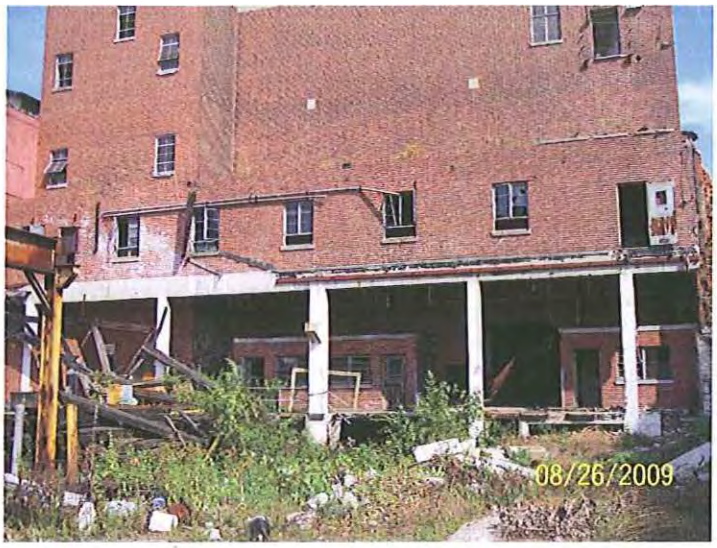
Photograph 15: View of beer storage tanks located between Buildings 1 and 4 (former location of Building 2) as seen from West 6th Street.

Photograph 16: Looking southwest at Building 4 as seen from West 6th Street.

ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09



Photograph 17: Looking north at Building 4's loading dock as seen from Yard A.

Photograph 18: View of possible well or sump located at the southeast corner of Building 4.

Photograph 19: View of the 2nd floor of Building 4.

Photograph 20: Looking southwest across Yard A towards Building 5.

ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09

Photograph 21: View of the southwest corner of Yard A.

Photograph 22: View of "flammable" bladder bags located in Yard A.

Photograph 23: View of portable fuel storage tank located in Yard A. Building 5 is in the background.

Photograph 24: Looking southwest at Building 5 (center) and the off-site adjacent Building 6 (right) as seen from West 6th Street.

ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

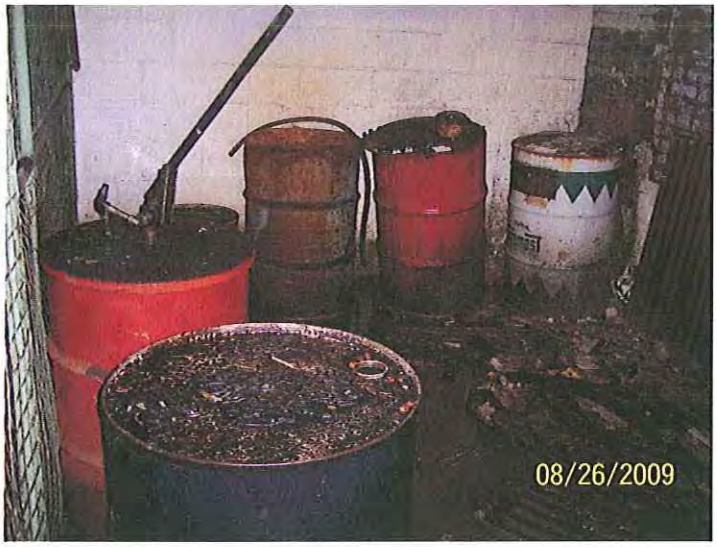
SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09

Photograph 25: Beer storage tanks located in the basement of Building 5.

Photograph 26: Drums of lubricants located in the basement of Building 5.

Photograph 27: View of piping located in the basement of Building 5.

Photograph 28: Concrete pad for former process equipment located on the 1st floor of Building 5.



Photograph 29: View of lubricant drums located on the 2nd floor of Building 5.

Photograph 30: Looking northwest at the north adjacent property as seen from the corner of West 6th and Stone Streets.

Photograph 31: Looking south along Stone Street. Former Hudepohl is on the right. Cincinnati Belt and Transmission (CBT) is on the left.

Photograph 32: Looking south at the adjacent warehouse also operated by CBT.

ATC ASSOCIATES INC

VAP Phase I Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
ATC Project No. 72.39245.0001

SITE PHOTOGRAPHS
Appendix L
Photographs Taken By: W. Norris
Date of Photographs: 08/26/09 or 09/24/09

Prepared For:

Hudepohl Square LLC
c/o Mr. Sy Safi
GCCM Construction Services, LLC
PO Box 434
Union, Kentucky 41091-0434

City of Cincinnati
Attn: Ms. Bonnie Phillips
Office of Environmental Quality
805 Central Avenue, Suite 320
Cincinnati, Ohio 45202

Prepared By:

ATC ASSOCIATES INC.
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112

VAP PHASE II PROPERTY ASSESSMENT
FORMER HUDEPOHL BREWERY
801 WEST SIXTH STREET
CINCINNATI, OHIO 45203
ATC PROJECT NO. 72.05876.0884

Prepared by: William A. Norris
Project Geologist

Reviewed by: Michael J. Luessen
VAP Certified Professional, No. 267

December 15, 2010

EXECUTIVE SUMMARY

ATC Associates Inc. (ATC) completed a VAP Phase II Property Assessment (Phase II) of the former Hudepohl Brewery property (herein referred to as the "Property") located at 801 West Sixth Street, Cincinnati, Ohio for the City of Cincinnati during May-December 2010. The study was performed relative to potential Property redevelopment as a mixed residential/commercial facility. The purpose of the study was to conduct an investigation sufficient to determine whether applicable standards are met in Identified Areas as identified in ATC's VAP Phase I Property Assessment. Both Phase I and Phase II have been completed for the purpose of participation in the Ohio EPA's Voluntary Action Program (VAP) as codified under Ohio Administrative Code 3745-300. The scope of work completed for this assessment included: i) sampling and analysis of subsurface soils/groundwater in each Identified Area, ii) sampling and analysis of building materials and exposed surfaces for PCB impact, iii) sampling and analysis of building materials for potential asbestos content, iv) evaluation of painted surfaces for lead content, v) evaluation of exposure pathways, vi) determination of applicable standards, and vii) preparation of a report to document our findings.

ATC installed 17 soil borings and analyzed 35 soil samples to quantify concentrations of constituents of concern (COCs) at the Property. COCs included volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH), RCRA metals, and PCBs. Three test pits were excavated in the area of previously demolished buildings to characterize fill materials. Nine samples from the test pits were analyzed for asbestos and lead, in addition to other COCs identified above.

Risk-based generic direct contact standards available through Ohio's Voluntary Action Program (VAP; Ohio Administrative Code [OAC] 3745-300-08) were utilized to evaluate soil conditions as quantified. Given planned use as a residential/commercial development, the residential exposure scenario was utilized, although results were also compared to construction/excavation worker exposure scenario standards. Direct contact with soil was determined to be a potentially complete exposure pathway. The soil generic direct contact standards were used to evaluate risk at the Property.

Arsenic, lead, PAH and TPH were quantified above residential standards in on-site soils. Arsenic concentrations above residential standards were detected in 20 samples from both fill and native materials across the Property at a maximum concentration of 20.5 mg/kg. Lead was detected above residential standards in seven fill samples. PAH and TPH were also quantified above standards in fill. Calculation of multiple chemical risk for each soil sample indicated that 4 additional samples have carcinogenic and/or non-carcinogenic risks greater than 1.

Four on-site monitoring wells and one off-site well were installed to approximately 60 feet below grade to quantify groundwater conditions at the Property. Groundwater samples were analyzed for VOCs and PAHs. PAHs were not detected in any of the samples. Trichloroethylene (TCE) was quantified in two on-site and the one off-site/upgradient well. Given the presence of TCE in the upgradient well, the source of TCE appears to be off-site. Groundwater is not used as a potable source in the area of the Property.

Soils with arsenic, lead, PAH and/or TPH impact at the Property in excess of the residential land use standards should be remedied. Excavation and off-site disposition is the most

effective remedial alternative for such impact although areas beneath buildings may be capped (an engineering control) and institutional controls implemented. Soils are below both the construction/excavation worker and commercial/industrial land use direct contact standards (with the exception of one are of lead impact). The majority of material at the Property should not require special handling during construction activities and could potentially be taken off-site and re-used at an appropriate commercial/industrial facility.

Buildings were screened for PCBs by collection and analysis of floor wipe samples, bulk material samples including core samples, and caulk samples. PCB impact was detected above standards in eight separate areas of on-site buildings. Based on concrete core samples, PCB penetration into underlying flooring material appears to be minimal except in the first floor area of the New Boiler House. PCB-impacted areas should be remediated prior to redevelopment.

The collection and analysis of 131 samples indicated that fifteen types of building materials contained asbestos. These materials included 1) pipe insulation, 2) boiler insulation, 3) duct insulation, 4) boiler breeching insulation, 5) boiler gasket, 6) block boiler insulation, 7) plaster, 8) window glazing, 9) "transite", 10) fire door insulation, 11) rope gasket, 12) tank insulation, 13) stored asbestos materials 14) floor tile, and 15) floor tile mastic. These materials should be abated prior to redevelopment.

Lead containing paint was identified by XRF analysis to be on several of the building components tested. Components included beams, columns, doors, door/window casings, sills, handrails, ladders, racks, elevator doors, stair stringers, eaves, trim, metal walkway parts, baseboards, tanks, and locker. These materials should be abated prior to redevelopment.

Residual hazardous materials and special wastes including fluorescent light fixtures, containerized materials, etc. were identified throughout the facility. Such materials should be removed prior to redevelopment.

TABLE OF CONTENTS

EXECUTIVE SUMMARY I

1.0 INTRODUCTION 1

1.1 PURPOSE AND SCOPE OF STUDY 1
1.2 PROPERTY DESCRIPTION 2
1.2.1 Vicinity Characteristics 5
1.3 CURRENT USE 5
1.4 INTENDED USE 5
1.5 ELIGIBILITY 6
1.6 IDENTIFIED AREAS / CHEMICALS-OF-CONCERN 6
1.7 DATA QUALITY OBJECTIVES 9
1.8 METHODOLOGIES 9
1.9 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT 10

2.0 PRIOR INVESTIGATIONS SUMMARY 12

3.0 SUMMARY OF AVAILABLE DATA 13

3.1 GEOLOGY, HYDROGEOLOGY, AND PHYSICAL CHARACTERISTICS 13
3.1.1 Topographic Characteristics 13
3.1.2 Geologic Characteristics 13
3.1.3 Hydrogeologic Characteristics 14
3.2 DRINKING WATER SOURCES 15

4.0 SAMPLING AND DATA COLLECTION ACTIVITIES 16

4.1 USE OF PREVIOUS DATA 17
4.2 SITE HEALTH AND SAFETY 17
4.3 SUBSURFACE INVESTIGATION 18
4.3.1 Test Boring Installation 18
4.3.2 Test Pit Excavation 19
4.3.3 Monitoring Well Installation and Well Development 20
4.3.4 Soil Sampling and Analysis 21
4.3.5 Groundwater Sampling and Analysis 22
4.3.6 Hydrogeologic Measurements 23
4.4 BUILDING INVESTIGATION 23
4.4.1 PCB Assessment 23
4.4.2 Asbestos Survey 25
4.4.3 Lead-Based Paint (LBP) Evaluation 25
4.4.4 Hazardous Materials/Special Wastes Inventory 26
4.5 QA/QC PROCEDURES AND SAMPLING 26
4.5.1 Field QA/QC 26
4.5.2 Laboratory Report QA/QC 28
4.6 INVESTIGATION DERIVED WASTES 28

5.0 RESULTS 30

5.1 PROPERTY SPECIFIC GEOLOGY AND HYDROGEOLOGY 30
5.2 SAMPLING RESULTS 31
5.2.1 Soil Conditions 31

5.2.2 Test Pit Results *32*
5.2.3 Groundwater Conditions *33*
5.2.4 PCB Evaluation Results *34*
5.2.5 Asbestos Survey Results *35*
5.2.6 LBP Assessment Results *36*
5.2.7 Hazardous Materials/Special Wastes Inventory *36*
5.3 QA/QC DATA REVIEW 37

6.0 PATHWAY EVALUATION 40

6.1 PRIMARY SOURCE AREAS 40
6.2 RECEPTOR POPULATIONS 40
6.3 AFFECTED MEDIA/TRANSPORT PATHWAYS 40
6.3.1 Soil *40*
6.3.2 Groundwater *41*
6.3.3 Surface Water/Sediments *41*
6.3.4 Air *42*
6.3.5 Building surfaces, components and residual materials *42*
6.4 PATHWAY COMPLETENESS 42

7.0 APPLICABLE STANDARDS 44

8.0 SUMMARY OF FINDINGS 45

8.1 SOIL / DEMOLITION DEBRIS CONDITIONS 45
8.1.1 Multiple Chemical Effects *45*
8.2 GROUNDWATER CONDITIONS / DETERMINATION 47
8.3 BUILDING EVALUATION 47

9.0 CONCLUSIONS 49

9.1 PROPOSED REMEDIAL ACTIONS 50

10.0 REFERENCES 52

10.1 LABORATORIES 52

ATTACHMENTS/APPENDICES

FIGURES:

Figure 1 - Property Location Map
Figure 2 - Property Plan
Figure 3 - Geologic Map
Figure 4 - Groundwater Resource Map
Figure 5 - Soil Boring, Test Pit and Monitoring Well Location Map
Figure 6 - Property Geologic Cross Section
Figure 7 - Soil Results Summary Maps
Figure 8 - Groundwater Potentiometric Surface Maps (July 12 and October 5, 2010)
Figure 9 - Groundwater TCE Results Maps
Figure 10 - PCB Wipe/Bulk Material Results Summary Maps

TABLES:

Table 1 - Groundwater Elevation Data
Table 2 - Soil Analytical Results Summary
Table 3 - Test Pit Sample Analytical Results Summary
Table 4 - Groundwater Analytical Results Summary
Table 5 - PCB Wipe and Bulk Sample Analytical Results
Table 6 - PCBs in Caulk Sample Analytical Results
Table 7 - Hazardous Material and Chemical Container Inventory
Table 8 - QA/QC Analytical Results Summary
Table 9 - Multiple Chemical Adjustment Calculations

APPENDICES:

Appendix A - Data Quality Objectives
Appendix B - Resumes of Key Personnel
Appendix C - Limitations
Appendix D - ODNR Well Logs
Appendix E - Site-Specific Operating Procedures
Appendix F - Soil Boring Logs and Well Construction Diagrams
Appendix G - Groundwater Sampling Documentation
Appendix H - Asbestos Inspection Report
Appendix I - Lead-Based Paint Inspection Report
Appendix J - Waste Disposal Documentation
Appendix K - Soil Sample Laboratory Reports
Appendix L - Test Pit Sample Laboratory Reports
Appendix M - Groundwater Laboratory Reports
Appendix N - PCB Sample Laboratory Reports

1.0 INTRODUCTION

ATC Associates Inc. (ATC) completed a Phase II Property Assessment (Phase II) of an approximately 1.611-acre former brewery property (the "Property") located at 801 West Sixth Street in Cincinnati, Hamilton County, Ohio 45203, during May-December 2010. The Property includes one parcel identified by the Hamilton County Auditor's office as Parcel Number 136-0004-0243. The Property location is shown in Figure 1.

The Phase II was conducted on behalf of Hudepohl Square, LLC, and the City of Cincinnati in general accordance with ATC Proposal No. 072-2010-0224 dated April 30, 2010. This assessment was conducted in accordance with Ohio EPA's (OEPA) Voluntary Action Program (VAP) Phase II Property Assessment requirements (Ohio Administrative Code 3745-300-07) and was based on findings from a VAP Phase I Property Assessment (report dated July 2010). This report documents our findings.

1.1 Purpose and Scope of Study

It is ATC's understanding that Hudepohl Square, LLC (Hudepohl Square), the Property owner, is considering redevelopment of the Property for mixed commercial/residential purposes. A portion of the existing buildings would be razed and remaining buildings renovated in association with the subject redevelopment project. It is ATC's understanding that Hudepohl Square wishes to conduct redevelopment in association with the City of Cincinnati.

The purpose of conducting a Phase II Property Assessment under the VAP is to "conduct an investigation sufficient to determine whether all applicable standards are met or to determine that remedial activities conducted in accordance with rule 3745-300-11 of the Administrative Code at the Property meet or will achieve applicable standards." The scope of work completed for this assessment included: i) collection and review of existing data, ii) sampling and analysis of soils in each identified area, iii) analysis and evaluation of groundwater conditions at the Property, iv) evaluation of exposure pathways, v) determination of applicable standards, and v) preparation of a report to document our findings.

This report is for the use and benefit of, and may be relied upon by Hudepohl Square LLC, GCCM Construction Services LLC, the City of Cincinnati, or any of their affiliates and third parties authorized in writing by Hudepohl Square LLC, GCCM Construction Services LLC, the City of Cincinnati, or ATC, including lender(s) in connection with a secured financing of the Property, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual Property conditions may change with time, and that hidden conditions may exist at the Property that were not discoverable within the authorized scope of the assessment. ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

1.2 Property Description

The Property consists of a single consolidated parcel encompassing a total of 1.611 acres located in the Queensgate commercial/industrial district of Cincinnati, Hamilton County, Ohio. It lies south and east of the intersection of West Sixth Street and the former Stone Street and northeast of the intersection of the former Stone Street and the former Carlisle Avenue. Both Stone Street and Carlisle Avenue were vacated by the City of Cincinnati and adjacent portions of the right-of-ways incorporated into the Property. The Property boundaries are approximately defined by lines connecting the following Latitude and Longitude coordinates beginning at the northeast corner of the Property and moving clockwise:

	Latitude (north)	Longitude (west)
1)	39° 06' 00.50"	84° 31' 39.99"
2)	39° 05' 58.49"	84° 31' 40.17"
3)	39° 05' 57.99"	84° 31' 43.52"
4)	39° 05' 59.93"	84° 31' 43.37"

The Property location and physical setting are shown in Figure 1 on the Covington, Kentucky-Ohio, USGS 7.5 Minute Topographic Map. An overview/plan of the Property is shown in Figure 2.

The Property lies within the southeast quarter of Section 24 of Fractional Range 1, Township 4 of the Between the Miamis Survey. The Property is situated in the Lackman Brewing Company Survey within Hathaway's Subdivision. The Property is identified as Parcel No. 136-0004-0243, owned by Hudepohl Square LLC.

The Property is currently occupied by five industrial buildings (New Boiler House, Old Boiler House, New Brew House, Racking and Fermentation House, and Bottling and Wash House). The buildings, built between approximately 1859 and 1961, are two to four stories with basements and sub-basements (i.e., cellars). Each building is constructed of concrete, steel and brick. Four buildings and a roofed structure located over the shipping yard were demolished within the last 5 to 10 years.

Public utilities including water, sewer, electricity and natural gas are available to the Property although water, electric and gas are not currently in service.

The New Boiler House, located in the northeast corner of the Property, is a three-story structure with a basement that formerly housed steam boilers, electric generation equipment, and mechanical systems. A smoke stack is located near the southwest corner of the building. An traction elevator is located near the southeast corner. A cooling tower is located on the roof. Historic records indicate that a ground level concrete structure located on the east exterior of the building is a coal chute. The building was built in 1946.

The foot prints of former adjoining Buildings 2, 3, 8 and 9 are covered by demolition debris (primarily concrete and brick), some clay soil, and weeds. The former structures were underlain by deep cellars (up to 40 feet below grade at the north end of the Property). During demolition the cellars' ceilings were breeched and the voids backfilled with demolition debris.

The Racking and Fermentation House, located in the north-central portion of the Property, is a four-story structure with two mezzanine levels and a basement. The east side of the building is largely open due to wall penetrations made during previous demolition and storage tank recovery activities. The building was formerly used for fermenting, racking (separation of beer from residual solids after fermentation), and shipping. The building was built in 1947.

The Bottling and Wash House, located along the west side of the Property, is a three-story structure with a partial basement at the south end. The building was constructed circa 1900 and formerly used for beer bottling, bottle washing, and shipping/receiving. The basement was used as locker rooms and for beer storage.

The Shipping Yard, located in the south-central portion of the Property, is covered by concrete pavement. Loading docks are located along the north and west edges of the area proximal to the Racking/Fermentation House and Bottling/Wash House.. The area was formerly covered by a one-story roofed structure consisting of wooden trusses supported on brick walls and steel beams. A partial brick wall and three wooden trusses were observed along the south edge of the area. A partial charred truss (evidence of a previous structural fire) was noted at the northwest corner of the yard. Reclaimed brick and wood beams as well as miscellaneous materials (equipment and containers) and demolition debris are located in this area.

The Brew House, located at the southeast corner of the Property, is a two-story building with a mezzanine level. The structure is underlain by a deep cellar that is not currently safely accessible. The building was formerly used as a Brew House which housed large brewing kettles and tanks and for grain receiving. Laboratories and offices were also housed in the building. Large openings are present on the west side of the building from previous demolition and brew tank recovery operations. A portion of the concrete floor on the ground level had been removed by demolition operations allowing a partial view of the under lying cellar. A partial view of the cellar was also possible from a doorway from the north adjacent building although physical access to the space was not possible. A large steel beer storage tank (approximately 15' in diameter) was visible in the cellar. The building was constructed in 1961 although the cellar pre-dates the over lying building.

The Old Boiler House is located near the southeast corner of the Property between the Brew House and the New Boiler House. The building consists of a single story with a mezzanine and a basement. A deep cellar (not accessible) is located below the basement. The building was formerly a boiler house and maintenance shop. Two multi-story boilers and associated mechanical equipment are located on the east side of the building. Residual coal was observed in the basement in the area of the boilers. A former coal chute

is located on the east side of the building. An apparent natural gas line pressure relief pipe was observed at the northeast exterior corner of the building suggesting that the boilers could be fired by natural gas as well as coal. The building was constructed in 1909 and apparently renovated in the 1960s.

The above-referenced buildings (both current and former) occupy the entire Property except two narrow portions along the east and south edges of the Property, formerly occupied by the Stone Street and Carlisle Avenue right-of-ways, respectively. No bare soil or landscaped areas were observed.

1.2.1 Vicinity Characteristics

The Property is located in a predominantly industrial/commercial area of Cincinnati. Adjacent buildings to the east, south and west were formerly owned and operated by Hudepohl. The east and south adjacent buildings are currently owned and/or operated by the Cincinnati Belt and Transmission Company (CBT) for warehousing and distribution purposes. The west adjacent facility appears to be used for warehousing. Further west is a building used as a jail. The Property is bordered on the north by West Sixth Street beyond which are a parking lot, green space and an entrance ramp to U.S. Route 50. Route 50 lies further north. Land use immediately surrounding the Property is shown in Figure 2.

1.3 Current Use

The Property is currently vacant and unused.

1.4 Intended Use

ATC understands that the proposed future use of the Property is to demolish a portion of the existing buildings, renovate remaining buildings, and redevelop the Property for new commercial/residential applications. ATC further understands that the new development as proposed will be "green" in nature, and may include elements including: i) recycling of existing building materials for bulk aggregate and ii) groundwater extraction/recovery for heating/cooling applications.

1.5 Eligibility

As demonstrated in the Phase I Property Assessment, the Property is not subject to certain laws and/or regulations as listed in OAC 3745-300-02 that would make it ineligible for participation in the VAP program.

1.6 Identified Areas / Chemicals-of-Concern

ATC completed a Phase I Property Assessment of the Property in accordance with Ohio Voluntary Action Plan requirements (ATC Project No. 72.39245.0001, report dated October 9, 2009).

Manufacturing businesses including breweries and ice cream factories have historically been located on the Property for approximately 150 years. Although such businesses process food products, these industries used and stored hazardous substances and petroleum products for cleaning, maintenance and fueling purposes.

Six conditions of potential environmental concern were recognized at the Property: i) the past use of the Property for industrial purposes, ii) the presence of small quantities of residual chemicals and petroleum products, iii) the presence of widespread floor staining and discoloration associated with general industrial use, iv) the past presence of electric generators and associated electrical equipment at the Property, v) the presence of suspect asbestos-containing materials (ACMs) in on-site buildings, and vi) the likely presence of lead-based paint on structures given the age of the facility.

Residual drums and containers of maintenance chemicals and petroleum products are present in the northeast and southwest areas of the Property. Containers ranged from good to fair condition. Property reconnaissance identified evidence of multiple small scale releases (i.e., staining/discoloration) on concrete flooring throughout the Property. Some of the staining was associated with residual containers but other areas appeared discolored from past spills/leaks or general long term industrial usage.

Historical documents indicate that the facility previously generated its own electric power using steam-powered generators located in various buildings at various times in the eastern

portion of the Property. Electrical equipment associated with such may be a potential source of PCBs.

Suspect asbestos-containing materials (ACMs) and suspect lead-based paint (LBP) were also noted throughout the facility. These suspect materials included materials in poor to severely damaged condition which could constitute a release of these substances to the environment.

Given the long term use of the Property for manufacturing purposes, the presence of general floor staining/discoloration and residual chemical/lubricant containers at the Property, and the poor condition of suspect ACMs and LBP, the potential for past releases is considered high. No specific hazardous waste/chemical storage/disposal areas were identified and no large, single release has been documented. Individual floor stains observed during reconnaissance were considered "*de minimis*". Under VAP guidelines, if more than three *de minimis* areas are located within an one acre, the area must by evaluated per Phase II protocols (OAC 3745-300-06[F]). Given the general overall staining observed at various locations around the Property, more than three "*de minimis*" areas are considered present. Given the lack of "point source" areas of concern/impact as outlined above, the entire Property is considered a single Identified Area under the VAP.

The proposed list of chemicals of concern (COCs) for the on-site Identified Area is based on those residual substances observed during Property reconnaissance (including suspect ACM and LBP) and those materials that may be inferred to have been used in the past based on general industrial practices. These COCs include: i) petroleum products (oils, lubricants), ii) volatile organic compounds (cleaners, degreasers), iii) PCBs associated with electrical equipment and lubricating oils, iv) metals associated with maintenance chemicals and residual ash from on-site boilers, v) asbestos-containing material, and vi) lead-based paint.

A historic lumber yard was present on the north adjacent property from at least 1883 until 1944. Given the possibility that hazardous chemicals were used at the lumber yard for lumber treating operations, that the lumber yard is apparently up-gradient of the Property, and the close proximity of the facility to the Property, the historic lumber yard is considered an Identified Area.

A historic freight warehouse/garage was located to the east of the Property from approximately 1927 to 1958. Four gasoline USTs were located at the facility at various locations at different times. The nearest UST was situated approximately 60 feet east of the Property. Given that the UST locations are situated east of the Property and potentially up-gradient, their distance from the Property (i.e., less than 100 feet), and that no record of UST closure is apparently on file with BUSTR, the historical presence of USTs east of the Property is a considered an Identified Area.

The USTs at the east off-site Identified Area were identified as containing gasoline. Given the use of the facility as a freight terminal, it is possible that diesel fuel may also have been used. Accordingly COCs associated with this Identified Area are assumed to include components of gasoline and diesel fuel.

Identified Areas are summarized below along with potential COCs for each area.

Identified Area	Description	Chemicals of Concern	Laboratory Analysis
Entire Property	Historic Industrial Use	Solvents, Petroleum, Metals	Fill/debris: asbestos & lead Soil: VOCs, PAHs, TPH, Metals, PCBs Groundwater: VOCs, PAHs
	Residual Chemicals and Petroleum Products	Solvents, Petroleum, Metals	--
	Floor Staining/Discoloration	PCBs	PCBs
	Electrical Equipment; Caulking	PCBs	
	Suspect Asbestos Containing Materials	Asbestos	Asbestos by PLM
	Lead-Based Paint	Lead	Lead
Off-Site Lumber Yard	Lumber Treating	Solvents, Petroleum	VOCs, PAHs
Off-Site Warehouse	Underground Storage Tanks	Petroleum	VOCs, PAHs

PAHs - polynuclear aromatic hydrocarbons; PCBs - polychlorinated biphenyls
TPH - total petroleum hydrocarbons; VOCs - volatile organic compounds

The media affected by such source areas are likely to be shallow soils in each identified area and first groundwater.

1.7 Data Quality Objectives

Data quality objectives (DQOs) were developed and implemented in general accordance with the Ohio VAP (OAC 3745-300-07[C]) and the U.S. EPA's "Guidance on Systematic Planning Using the Data Quality Objectives Process." The DQO process is a method used to establish criteria which serve as a basis for collecting data of sufficient quality to support the study goals (USEPA 2006). DQO documentation is included in Appendix A.

1.8 Methodologies

The Phase II Property Assessment was performed by Mr. Matt Nemecek, Mr. Thomas Beck, Mr. Travis Powell (Staff Geologists), Mr. William A. Norris (Project Geologist), Mr. Michael Bryson (Environmental Technician), and Mr. Michael Bossert (Project Manager), all with ATC's Cincinnati, Ohio office. Mr. Michael J. Luessen, ATC Principal Consultant and a VAP Certified Professional (CP No. 267) provided project oversight. Resumes for Mr. Luessen and Mr. Norris are provided in Appendix B.

Methods employed during this study were conducted in accordance with OAC 3745-300-07 and the above-referenced DQOs, and are summarized in outline form below.

Existing Data Collection and Review

- Review of previous quantitative data, if any,
- Identification of geologic, hydrogeologic, and physical characteristics of the Property through a review of available topographic, geologic, and groundwater data (to facilitate evaluation of the potential migration of hazardous materials or petroleum products to or from the Property), and
- Review and evaluation of the VAP Phase I Property Assessment to determine Identified Areas, chemicals of concern (COCs), and identify data gaps (if any).

Sampling and Laboratory Analysis

- Installation of 17 soil borings and analysis of 35 soil samples to determine the nature and extent of environmental impact associated with the on-site Identified Area,
- Excavation of three test pits and collection of samples in areas of previously demolished buildings to identify the presence of residual asbestos and elevated lead in the demolition debris,

- Quantification of groundwater conditions at the Property including installation of 5 groundwater monitoring wells (four on-site and one off-site) with sampling/analysis of groundwater for VOCs and PAHs,
- Collection and analysis of 99 surface wipe and bulk material samples to determine the extent of PCB impact. Materials sampled included floor surfaces, concrete cores, roofing material, and window caulk/glazing,
- Collection and analysis of 178 bulk samples of on-site building materials from 91 homogeneous areas to identify the presence and quantity of asbestos-containing materials,
- Analysis of 79 painted surfaces using XRF methods to identify the presence of lead-based paint,
- Inventory of residual hazardous substances located at the Property including fluorescent light fixtures/bulbs, cans, drums, reservoirs, etc.
- Collection and submission of additional samples to satisfy QA/QC sampling requirements including sample duplicates, trip blanks, equipment blanks, and field blanks, and
- Use of a VAP-certified laboratory for analysis of COCs including VOCs, PAHs, TPH, PCBs, and RCRA metals.

Determinations

- Evaluation of sources, affected media, potential receptors, transport mechanisms, etc. to identify potentially complete pathways,
- Classification of groundwater according to VAP protocols,
- Determination of applicable regulatory standards based on planned future use,
- Identification of materials that may require abatement prior to redevelopment, and
- Demonstration of compliance with standards or recommendations for remedial activities.

Report Preparation/Documentation

- Preparation of a report prepared in accordance with the OAC 3745-300-07 standard.

1.9 Limitations and Exceptions of Assessment

This report is for the use and benefit of, and may be relied upon by Hudepohl Square LLC or any of its affiliates, the City of Cincinnati, the State of Ohio in connection with providing available project funding and Ohio's Voluntary Action Program, and third parties authorized in writing by Hudepohl Square LLC, the City of Cincinnati or ATC, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual Property conditions may change with time, and that hidden conditions may exist at the Property that were not discoverable within the authorized scope of the assessment. ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the

preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

This property assessment did not include documentation of issues or conditions beyond the scope of OAC 3745-300-07 except as noted above. Any property assessment is inherently limited in that findings from such study are based on available information and current conditions. Specific limitations of this study are discussed in greater detail in Appendix C.

2.0 PRIOR INVESTIGATIONS SUMMARY

One environmental report was available for review: "Asbestos Material Survey @ Hudepohl Bldg. 801 W 6th Street," prepared by Keen and Cross Environmental Services, Inc., dated May 18, 2005. According to Mr. Sy Safi with GCCM Construction Services, the report pertains to one of the former on-site demolished buildings. The report indicated that the following asbestos-containing material was identified in the building and required removal prior to demolition: thermal system insulation, fire doors, and "transite" pieces. A copy of the report is included in the VAP Phase I Property Assessment report.

3.0 SUMMARY OF AVAILABLE DATA

3.1 Geology, Hydrogeology, and Physical Characteristics

3.1.1 Topographic Characteristics

The Property is situated on the sloping edge of a terrace at the juncture of the Ohio River and Mill Creek valleys. The relatively steep slopes of the valley wall lie approximately 6,000 feet to the northeast. The Ohio River flows towards the west approximately 1,500 feet south-southwest of the Property. The Property lies approximately 40 feet above the normal pool level of the river.

The Property is located between approximately 505 feet and 530 feet above mean sea level. Topography at the Property slopes moderately towards the southwest. Adjacent properties are similar in elevation to the Property. Storm water runoff in the area of the Property will enter numerous storm water catch basins located in streets and alleys around the Property.

No permanent surface water bodies (e.g., lakes, streams, or ponds) are present on the Property.

3.1.2 Geologic Characteristics

Southwest Ohio is characterized by pre-glacial valleys carved into underlying bedrock. The valleys have been partially filled with unconsolidated clay, sand and gravel deposits during Pleistocene glaciation. The Property is located in the Ohio River valley on a glacial outwash terrace north of the Ohio River. Bedrock at depth in the area consists of Ordovician-age interbedded plastic shales and limestones. Surface soils in the area of the Property consist of fine-grained lacustrine or deltaic glacial outwash deposits consisting predominantly of fine sand, clay and silt up to 60 feet thick. The outwash is underlain by up to 20 feet of sand and gravel and approximately 70 feet of sand (Walker, 1986; Brockman et al., 2004). A copy of the geologic map for the Property vicinity is included as Figure 3.

A review of water well logs for the area surrounding the Property available from the Ohio Department of Natural Resources (ODNR) found 8 wells located within one-half mile of the Property. No recorded wells were located on the Property. The nearest well is located approximately 1,500 feet east of the Property (well No. 47). The remaining wells are located approximately 2,000 feet southeast of the Property. Well No. 47 appears to have been a commercial/industrial well located in an area that is now developed as a highway. The remaining wells were installed at an electric substation operated by a local public utility company. The logs do not indicate the use of the water from the wells. Wells were installed between 1937 and 1950. An ODNR map of oil/gas wells for downtown Cincinnati, dated August 7, 2000, does not show the presence of oil or gas wells at the Property or in the surrounding area.

The well logs indicate that the area surrounding the Property is underlain primarily by clay and fine-grained sediments to depths as much as 45 feet. Sand and gravel underlies the clay to limestone and shale bedrock at depths varying from approximately 85 to more than 179 feet. Copies of ODNR well logs are provided in Appendix D.

According to the information provided in the United States Department of Agriculture Soil Survey of Hamilton County, Ohio (1982), soils in the area of the Property consist of Urban land-Martinsville complex, 3-8 percent slopes (UmB). UmB consists of Urban land and a gently sloping, well-drained, Martinsville silt loam on outwash plains. The Urban land part of the complex is covered by streets, parking lots, buildings, and other structures which obscure or alter the native soils. Martinsville soils consist of a surface layer of friable silt loam, a subsoil consisting of friable silty clay loam, firm clay loam and firm sandy clay loam; and a substratum to a depth of approximately 60 inches of stratified loam, sandy clay loam, and sandy loam. Permeability is moderate.

3.1.3 Hydrogeologic Characteristics

Geologic materials in the Property vicinity provide an excellent source of groundwater (Walker, 1986). Wells installed into the permeable sand and gravel outwash deposits of the Ohio River valley are recharged by nearby rivers/streams and typically yield more than 500 gallons per minute (gpm). Yields as much as 1,000 gpm have been reported. ODNR well logs indicate that static ground water levels range from approximately 28 to 101 feet below

ground surface. Historical records indicate that a previous well located on-site had been installed to 98 feet (Wimberg, 1989). No additional property-specific hydrogeologic data was available from the sources reviewed. A copy of the Ground-Water Resources of Hamilton County map (Walker, 1986) is included as Figure 4.

The flow of shallow groundwater often mimics local topographic and drainage patterns. Based upon local topography and surface drainage patterns as interpreted from the USGS map, groundwater beneath the area of the Property is expected to flow generally towards the southwest towards the Ohio River. Estimated groundwater levels and/or flow direction may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

3.2 Drinking Water Sources

Potable water for the majority of the Cincinnati area (including the Property vicinity) is provided by the Cincinnati Water Works. Water supply for the site and surrounding area is obtained from the Ohio River via intakes located at California, Ohio, approximately six miles southeast of the Property. The buried valley aquifer in the Property vicinity, while used as a primary drinking water source in other areas of southwest Ohio, is not used as drinking water source for the City of Cincinnati.

Current City of Cincinnati Board of Health Regulations limit the installation of new potable water wells within the City limits. Regulation 00053-3 (Sanitation Requirements, Water Supply) says that "in all dwellings, the owner shall provide an adequate supply of water from the Cincinnati municipal system." For potable systems which currently are not or can not be supplied by the municipal system, regulations require that "when water from the municipal system becomes available to any dwelling, the owner shall provide water from that system and abandon the private supply."

According to Ohio EPA records, the Property is not located in a recognized wellhead protection (WHP) area and there are no wellhead protection areas, public water supply wells or sole source aquifers within 1 mile of the Property. The Ohio EPA Drinking Water Source Protection Map is included in Appendix D.

4.0 SAMPLING AND DATA COLLECTION ACTIVITIES

Field activities consisted of seven general tasks: i) soil characterization and delineation of impact associated with the identified areas, ii) quantification of groundwater conditions across the Property, iii) characterization of residual demolition debris on-site, iv) identification and delineation of potential PCB impact to on-site building surfaces, v) identification and quantification of asbestos-containing materials present on-site, viii) identification and characterization of surfaces coated with lead-based paint in on-site buildings, and vii) identification and quantification of residual potentially hazardous materials stored on-site including PCB-containing light ballasts, chemical/petroleum drums and containers, mercury-containing bulbs, fluid-filled reservoirs, etc.

Seventeen test borings (B-1 through B-12 and MW-1 through MW-5) were installed around the Property during July-September 2010, using hydraulic-push drilling rigs, hollow-stem auger drilling rigs, and/or hand-operated bucket augers. Five of the borings was subsequently converted into two-inch diameter monitoring wells (MW-1 through MW-5). Non-well borings were installed to depths between 3 and 30 feet below surface grade. Soils from non-well borings were sampled continuously to terminal depth. On-site well borings were continuously sampled for soils to depths of 30 feet and sampled discontinuously thereafter to terminal depth.

Wells were completed approximately 10 feet below the depth where groundwater was first encountered (i.e., to depths between 53 feet and 62 feet). Wells were developed on July 9 or September 24, 2010, and sampled on July 12 and October 5, 2010. Soil and groundwater temporal variability was not assessed, as soil and groundwater conditions were not anticipated to vary substantially over time.

Three test pits (TP-1 through TP-3) were excavated to approximately 15 feet below ground surface on June 24, 2010, in the area of the previously demolished buildings on-site. Samples were collected from three general horizons in each pit (shallow, intermediate and deep) and analyzed for total lead content and presence of residual asbestos.

An asbestos inspection of the on-site buildings and grounds was conducted by state licensed Asbestos Hazard Evaluation Specialists during June and July, 2010. Inspectors

collected 178 bulk building material samples from 91 homogeneous areas. Samples were analyzed for asbestos using polarized light microscopy.

A lead-based paint inspection of on-site painted surfaces was conducted during June and July 2010 using an XRF analyzer. The inspector tested 79 painted building components throughout the Property for lead content.

The presence and extent of PCB impact within on-site buildings was assessed during July-October, 2010 by the collection and laboratory analysis of 10 window caulk/glazing samples, 79 surficial wipe samples, 7 bulk roofing material samples, and three concrete core samples.

Residual bulk materials (including potentially hazardous and non-hazardous substances and petroleum products) at the Property were inventoried during August-September, 2010. No samples were collected in association with the inventory.

Detailed descriptions of field activities are presented in the following sections. Site-specific operating procedures are provided in Appendix E. Soil boring, test pit, and well locations are shown in Figure 4.

4.1 Use of Previous Data

No previous analytical soil or groundwater data was available for use during this study.

4.2 Site Health and Safety

A site-specific health and safety plan (HASP) was prepared in accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120. All members of the work crew were required to review and sign-off on the plan prior to the start of work. Safety tailgate meetings were held at the beginning of each day to discuss safety issues at the site. Prior to work in certain areas of building interiors where asbestos debris was identified, workers were required to don respiratory protection and disposable coveralls.

The Ohio Utility Protection Service (OUPS) was notified prior to initiation of drilling activities such that public utilities could be marked at the site. Private utility locating services (The Underground Detective, Inc. of Cincinnati, Ohio, and Blood Hound, Inc. of Brownsburg, Indiana), were utilized to locate private and unmarked public subgrade utilities in the work area.

4.3 Subsurface Investigation

4.3.1 Test Boring Installation

Prior to installation of the borings, a track-hoe was utilized to clear debris from the proposed boring locations and provide safe access to building doorways for interior boring installation. Soil borings B-1 through B-12 and MW-1 through MW-4 were advanced between July 6 and July 8, 2010 to investigate and quantify current soil conditions. Boring MW-5 was installed on September 22, 2010. Borings MW-1 through MW-5 were installed with the intent to facilitate the installation of groundwater monitoring wells for use in groundwater characterization. Most soil borings were installed using a hydraulic-push rig. Three borings installed in the New Boiler House were completed to refusal using a hand-powered bucket auger. Borings MW-1 and MW-5 were installed in their entirety using a truck-mounted rig equipped with hollow-stem augers. The remaining three monitoring wells were initially installed/sampled to 30 feet using hydraulic-push technology and completed to depth using a hollow stem auger drill rig. Non-well hydraulic-push borings were installed to depths between 20 to 30 feet. Monitoring well borings were installed to the first groundwater. Drilling services were provided by SCS Environmental Contracting of Ft. Wayne, Indiana, and Columbus, Ohio. Boring installation was supervised by Mr. Matthew Nemecek, Mr. Tom Beck, and Mr. William Norris, all ATC geologists/scientists.

Four of the borings located inside of buildings encountered probe refusal short of the 20-foot planned boring depth (i.e., borings B-4, B-7, B-8 and B-9). In these cases, borings were relocated several feet away from the original hole and a new boring installed. Up to three new locations were tried for each boring location. In each case shallow refusal (less than 5 feet) was still encountered. A limited review of building plans suggest that these locations in the New Boiler House and Racking/Fermentation House are underlain by subgrade concrete slabs and wide spread-foot foundations. It is assumed these

obstructions were encountered during drilling. As a consequence, additional borings were installed to 30 feet exterior to the buildings (borings B-4A, B-10, B-11, and B-12). Hereafter, boring B-4A will be referred to simply as B-4. Boring locations are shown in Figure 5.

The hydraulic-push sampling rig was equipped with a 4-foot long sampling probe lined with disposable vinyl sample sleeves. Soils were collected continuously from the borings in four-foot intervals to a maximum depth of 30 feet and divided into 2-foot samples upon recovery.

Monitoring well locations MW-1 to MW-4 were sampled continuously to 30 feet. Below 30 feet soil samples were collected at 5-foot intervals using split spoon samplers. The entire length of boring MW-5 was sampled at 5-foot intervals. Non-disposable sampling equipment were scrubbed in an Alconox solution and rinsed with distilled water to prevent possible cross-contamination between samples.

Boring/well logs are included in Appendix F.

4.3.2 Test Pit Excavation

Three test pits were excavated in the area of three former on-site buildings to characterize residual fill materials and demolition debris in the central portion of the Property. The primary chemicals of concern were materials potentially containing asbestos and lead from lead-based-paint in the demolished buildings that are the apparent source of much of the fill/debris. Building plans indicate that the debris fills the sub-basement storage cellars of the former brewery to depths between 30 and 40 feet below the current ground surface.

The test pits were excavated using a trackhoe under the supervision of Mr. Travis Powell, an ATC geologist, and Mr. Michael Bossert, an ATC state-certified asbestos hazard evaluation specialist. Three samples of fill materials were collected from each test pit at depths of approximately 2 feet, 8 feet, and 15 feet (shallow, intermediate, and deep, respectively).

4.3.3 Monitoring Well Installation and Well Development

Four borings (MW-1 through MW-4) were advanced at the Property between July 6 and July 8, 2010 and converted to monitoring wells to investigate and quantify current groundwater conditions at the Property. Monitoring well locations were selected to provide the maximum information of on-site groundwater conditions based on an assumed groundwater flow direction towards the southwest. Subsequent investigation indicated that groundwater flow below the Property is towards the southeast. A fifth boring/well (MW-5) was installed off-site to the northwest on September 22, 2010, to investigate and quantify groundwater conditions upgradient of the Property. Well locations are shown in Figure 5.

Wells were installed by a truck-mounted rig equipped with hollow-stem augers and supervised by Mr. Tom Beck and Mr. William Norris, ATC scientists. Wells were completed approximately 10 feet below the top of the saturated zone.

Soil samples were collected continuously from the first 30 feet of each of the first four well locations and every five feet thereafter to characterize soil stratigraphy/conditions. Soil samples were collected every five feet through the entire length of boring MW-5. Although collected, no soil samples from monitoring well MW-5 were submitted for laboratory analysis.

Upon completion of each well boring a 2-inch inside diameter PVC well casing and screen were installed in the borehole. The wells were constructed using fifteen feet of slotted screen installed across the water table. Quartz sand was used to pack annular space in the wells to approximately two feet above the top of the screened interval. The remainder of the well consisted of solid casing with a bentonite seal filling the annular space to approximately one foot below grade. A flush-mounted steel-sleeved protective vault was then situated above the top of casing. A well cap with a keyed padlock was placed at the top of each well to limit access to the well. Well construction diagrams are included with the boring logs in Appendix F.

Drilling in unconsolidated materials (particularly silt and clay-rich sediments) typically results in a "smearing" of the sides of the borings. This smearing reduces the natural permeability of sediments drilled. Well development is the process by which these artificially induced

changes in natural permeability are reduced. Monitoring wells were developed on July 9 and September 24, 2010, by vigorous surging followed by bailing. This method has been found to be effective in the development of monitoring wells to promote a good hydraulic connection between the well and the monitored hydrostratigraphic unit. Surging causes reversal of flow through the screen openings that will agitate the sediments, remove the finer fraction, and then rearrange the remaining formation particles. Sediment drawn into the well casing is then removed during bailing.

Wells were purged of a minimum of three well volumes during the development process. Purge water was monitored for temperature, pH and conductivity to determine if water conditions stabilized during the development process. If conditions did not stabilize over three consecutive measurements by the time three well volumes had been purged, purging continued to a maximum of five well volumes or until the well was purged dry. Stabilization data indicate that water conditions had stabilized by the fifth well volume in all cases. Stabilization criteria are detailed in Appendix E. Well development documentation is included in Appendix G.

4.3.4 Soil Sampling and Analysis

Soil samples were inspected and described by an ATC field geologist. Samples were designated by the boring ID and a depth range (e.g., 0-2 for the sample from grade level to a depth of 2 feet). Nitrile gloves were worn by ATC's representative and changed between samples to prevent possible cross-contamination. Soil samples from each location were split into two aliquots. One split of each sample was placed in pre-cleaned glass jars with Teflon-lined lids and immediately placed on ice in a cooler for potential laboratory analysis. The other aliquot was placed in a sealable polyethylene bag for field screening.

Samples were field screened with a photoionization detector (PID) with a 11.8 eV lamp, which measures total photoionizable vapors in parts per million (ppm). The PID was calibrated daily to benzene through the use of an isobutylene gas standard. PIDs are effective for qualitative screening of samples for the presence of VOCs due to the high volatility and low ionization potential of such compounds. The maximum PID reading from each sample was recorded.

The scope of work called for at least two soil samples from each boring to be submitted for laboratory analysis. Given the number of analyses requested for certain sample intervals and the limited quantity of soils recovered, some "samples" consisted of two 2-foot intervals located as close to each other as possible (i.e., immediately above and below each other) in order to have enough sample material to cover the requested analyses. Accordingly, some boring locations had three or four sample intervals submitted for analysis. Only a single sample was submitted for certain boring locations where probe refusal was less than 5 feet or recovery was so poor that multiple samples were not available (i.e., B-8, B-9, and B-11). No samples were submitted from borings B-7 and MW-5.

Three samples of fill materials were collected from each test pit at depths of approximately 2 feet, 8 feet, and 15 feet. Test pit samples were collected by hand from the trackhoe bucket and placed in nylon bags. The bagged samples were subsequently split into two aliquots. Both splits were placed in 4 ounce glass jars with Teflon-lined lids.

Soil boring samples and one jar from each test pit sample were submitted to Belmont Labs in Englewood, Ohio, utilizing chain-of-custody controls. The second jar from each test pit sample was submitted to the ATC Cincinnati asbestos laboratory. Samples from each area were analyzed for COCs using the sample analysis plan outlined below.

Identified Area	Chemicals of Concern and EPA Method Number					
	VOCs 8260	PAHs 8270	PCBs 8082	Metals 6010/7470	TPH 8015 (full range)	Lead 6010/ Asbestos PLM
Subsurface Soils	X	X	X	X	X	
Subsurface Demolition Debris						X

PLM - polarized light microscopy

4.3.5 Groundwater Sampling and Analysis

Groundwater samples were collected from monitoring wells MW-1 through MW-4 on July 12, 2010. Prior to sampling a minimum of three well volumes of water were purged from each well. Disposable polyethylene bailers were used to purge and sample each well. Additional groundwater samples were collected from all five wells on October 5, 2010 using low-flow sampling methods (see Appendix E).

Groundwater samples were collected in appropriate containers (40 milliliter glass vials with Teflon® septums [VOC analysis] or 950 ml amber glass jars with Teflon®-lined lids [PAH analysis]) and immediately placed on ice in a cooler. Sterile nitrile gloves were worn during sampling and changed between wells to prevent possible cross contamination of samples.

Groundwater samples were shipped to Belmont Labs as previously referenced, utilizing chain-of-custody controls. Water samples from the first round of sampling were analyzed for VOCs by EPA Method 8260 and PAHs by EPA Method 8270. Samples from the second round of sampling were analyzed for VOCs only.

4.3.6 Hydrogeologic Measurements

Monitoring well elevations for each well were surveyed against an arbitrary benchmark using a self-leveling laser level and a rod equipped with a detector. Elevation measurements were recorded to the nearest 1/100th of a foot. Top of casing elevations were recorded for each monitoring well. The benchmark used for the survey was the top of a sewer manhole with a known elevation (provided by the Cincinnati Metropolitan Sewer District) located in the former Stone Street right-of-way southeast of the New Brew House.

Gauging of static water level was performed on July 12 and October 5, 2010 (prior to sampling) as well as August 26 and September 2, 2010, using an electronic water level indicator which measures the depth to groundwater to the nearest one-hundredth of a foot. Depth-to-water measurements were recorded from the top of casing.

4.4 Building Investigation

4.4.1 PCB Assessment

PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment. The EPA has also noted that caulk containing PCBs was used in many buildings during building construction, renovation, or repair from the 1950s through the late 1970s.

Surface wipe samples were collected from areas of concern including heavily stained areas and at random locations around the facility on August 12 and August 16, 2010. Additional sampling was conducted on September 28 and 30, 2010. A fresh paper template consisting of an approximately 1-inch wide border of sturdy cardstock surrounding a square opening of 100 cm^2 (i.e., 10 cm by 10 cm) was placed on the floor at the sample location. A gauze pad soaked with hexane was thoroughly wiped across the opening of the template using both lateral and longitudinal strokes. The sampler donned a fresh pair of protective nitrile gloves between wipe samples to prevent possible cross-contamination. Once the area was thoroughly wiped, the gauze pad was placed in a clean 4-ounce glass jar with a teflon-lined lid. The jar was labeled and placed on ice in a cooler.

PCBs were detected in surficial granular roofing material after the first round of wipe sampling. Subsequently, bulk samples of roof ballast were collected and placed in 4-ounce jars for laboratory analysis.

Three core samples were collected on September 30, 2010 from the three "worst-case" areas based on the results of the first round of wipe sampling. Core samples were collected to assess the degree of PCB penetration into flooring material. Core samples were collected using an electric hand-held drill equipped with a 3-inch diamond core bit. The coring tool was used to cut a circular groove into the floor surface approximately 2 centimeters deep in the immediate area of the previous wipe sample location. Each core was then chipped or popped out of place using a hammer and chisel. A mist of distilled water was sprayed into the cutting area during drilling to reduce dust emissions and keep the bit cool. The bit was cleaned between sample locations using a spray of distilled water. The cores/chips from each location were placed in a polyethylene bag and reduced to less than pea gravel-sized pieces by blows from a hammer while still in the polyethylene bag. The pieces were then transferred to a clean 4-ounce glass jar with a teflon-lined lid. The jar was labeled and refrigerated.

PCB wipe and core samples were packed on ice and shipped to the Belmont Labs facility in Englewood, Ohio under chain of custody controls. The samples were submitted for analysis of PCB Aroclors (standard 7 compounds) by EPA Method 8082.

Ten representative bulk samples of window caulk/glazing were collected from on-site buildings on July 7, 2010. The samples were shipped to Pace Analytical Services of Indianapolis, Indiana, under chain of custody controls and analyzed for PCBs by EPA Method 8082. Pace Analytical Services was used because the laboratory has the ability to analyze caulk samples.

4.4.2 Asbestos Survey

A comprehensive asbestos inspection of the Property was performed using the requirements specified in the Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763, Subpart E). This regulation is intended for active primary and secondary schools, and is regarded as the industry standard for identification of ACM in buildings. In addition, AHERA is referenced by Occupational Safety and Health Administration (OSHA) regulations as required protocol for conducting asbestos inspections of buildings where construction activities will take place. The survey was conducted by Ohio Department of Health (ODH)-certified Asbestos Hazard Evaluation Specialists from ATC's Cincinnati office. The asbestos report is presented under separate cover and included in its entirety in Appendix H.

4.4.3 Lead-Based Paint (LBP) Evaluation

The potential exists for lead to be present at the Property, primarily in association with surfaces covered with lead-based paint. Areas of previous building demolition and areas of peeling paint present potential lead paint hazards. Redevelopment plans include renovation and re-use of existing buildings for residential purposes. Although lead-in-paint is typically a worker exposure issue that is addressed by construction contractors and exempt from Clean Ohio funding and VAP regulation, it is relevant here given: i) potential building materials grinding/re-use in association with site redevelopment (which could create lead dust and impact to soil on-site) and ii) potential future exposure of residents and occupants in the buildings.

The LBP assessment was completed by Mr. Michael Bryson, an environmental technician with ATC's Cincinnati office, using an RMD LPA-1 XRF Analyzer. Mr. Bryson is ODH-certified Licensed Lead Risk Assessor (License # LA-006091). The LPA-1 XRF Analyzer is a

device which quickly, accurately, and non-destructively measures the concentration of LBP on surfaces in the field. The inspection was completed on June 4, 7, and July 6 and 7, 2010, in accordance with the "*Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*" (HUD Guidelines). The HUD-defined LBP threshold is 1.0 milligrams lead per square centimeter (mg/cm^2) or 0.5% (5,000 ppm) lead by weight.

The LBP inspection report is presented under separate cover and included in its entirety in Appendix I.

4.4.4 Hazardous Materials/Special Wastes Inventory

An inventory of materials such as hazardous wastes or materials that would be classified as special wastes was conducted. The purpose of the inventory was to identify and quantify those materials that that may require special handling or disposal prior to or during demolition/renovation activities.

The inventory identified and quantified to the extent possible material containers, drums, bulk material, fluorescent light ballasts, fluorescent light tubes, possible mercury-containing equipment (e.g., mercury switches and thermometers), chlorofluorocarbon (CFC)-containing equipment, batteries, and oil-filled devices. The contents of each container was noted if labeled or obvious from visual inspection. Containers/drums were not opened or otherwise handled to assess the actual content or remaining volume of material. Many drums were unlabeled and unopened rendering their contents, if any, "unknown". No sampling was conducted in association with the inventory.

4.5 QA/QC Procedures and Sampling

4.5.1 Field QA/QC

Quality assurance/quality control (QA/QC) measures in the field included procedures for equipment decontamination, instrument calibration, documentation, sample handling and preservation, and chain-of-custody use. Standard operating procedures, including QA/QC measures, are detailed in Appendix E.

QA/QC procedures included collection and submission of duplicate and blank samples associated with soil, groundwater, and wipe sampling. Nineteen QA/QC samples were collected and analyzed, a ratio of approximately 17 percent of the number of samples submitted for analysis (a rule of thumb is that 10% of samples should be QA/QC samples [USEPA, 1998]).

Blind duplicates are samples collected at the same time and/or same location as the primary sample and submitted to the laboratory using a different sample identification (blind duplicate). The purpose of the duplicate sample is to assess laboratory precision, reproducibility of results, and variability within sample media.

Duplicate samples were collected at a rate of approximately 1 for every 20 regular samples. Accordingly, twelve sample duplicates were collected for this study. Six soil samples, two groundwater samples and four wipe samples were collected for duplication. Duplicate samples were collected and handled in the same manner as the original samples and analyzed using the same methods as the original samples as referenced above. Each soil sample duplicate was analyzed for two or three types of COCs including VOCs (2 samples), PAHs (2 samples), TPH (2 samples each for C_6-C_{12} and C_{10}-C_{20}/C_{20}-C_{24}), RCRA metals (3 samples), and PCBs (2 samples). The groundwater duplicate was analyzed for VOCs (2 samples) and PAHs (1 sample). Wipe sample duplicates were analyzed for PCBs. Samples were chosen randomly from the available samples.

Trip blanks are used to assess possible contamination due to sample shipping (such as diffusion of volatiles between containers shipped in a single cooler or contamination contained in a dirty cooler). Trip blank samples were prepared by Belmont Labs and provided to ATC at the start of the project. The sealed containers were carried to the field during sampling and subsequently included with sample shipment to the laboratory. Trip blanks were prepared and placed in shipping coolers during collection and shipping of samples scheduled for VOC analysis. Four trip blanks were submitted and analyzed for sampling activities that occurred on July 6, 7, 8 and 12, 2010.

Field and equipment blank samples associated with soil and groundwater sampling were prepared by filling sample containers with distilled water. Field blanks consisted of containers which were filled with clean distilled water in the field during sampling and used to assess

potential contamination from the field environment. Equipment blanks consisted of distilled water rinsed over sampling equipment and caught in sampling containers used to assess the cleanliness of sampling materials and the thoroughness of decontamination procedures. PCB wipe blanks were prepared by soaking a gauze pad in hexane, wiping the gauze across the surface of an unused paper template, and placing the pad in a clean 4-ounce glass jar.

Field blanks were prepared during representative field sampling activities during sampling on July 7 and 12, and October 5, 2010.

Equipment blanks were prepared at least once per type of sampling for which samples were analyzed and for which non-disposable equipment was used for each analyte except TPH. A total of three equipment blanks were produced on July 6 and 8, 2010 (soil sampling), and October 5, 2010 (groundwater sampling).

4.5.2 Laboratory Report QA/QC

Laboratories are required to implement their own QA/QC procedures and practices in accordance with their certifications. ATC reviewed each laboratory report for information completeness and analytical irregularities. Elements reviewed included: presence of VAP affidavit, chain-of-custody, sample identification, sampling dates, extraction and analysis dates, method identification, matrix type, reporting units, reporting limits, condition of shipping and sample containers, cooler temperature, holding times, method blank results, and analytical qualifiers. Laboratory qualifiers are noted in each laboratory report. No substantial issues or irregularities were noted relative to laboratory analytical data generated in support of this project.

4.6 Investigation Derived Wastes

Soil wastes (auger cuttings) and auger rinse water were generated during installation of the five monitoring wells. Well development and purge water wastes were also generated during assessment activities. Twelve drums of soil cuttings and two drums of wastewater were generated, labeled, and temporarily stored on-site. The drums were removed for off-site disposal as special waste on August 12, 2010, by Pettit Environmental of West Chester,

Ohio. Three additional soil drums and one purge water drum from installation of MW-5 were removed for off-site disposal as special waste on December 23, 2010, by EMS of Cleveland, Ohio. Disposal documentation is included in Appendix J.

5.0 RESULTS

5.1 Property Specific Geology and Hydrogeology

Soils across the site consisted surficial fill over 27 feet thick. The thickest fill is located in the central portion of the Property in the footprint of previously demolished buildings. Demolition debris and off-site fill were mixed and backfilled into sub-basement cellars that extend more than 30 feet below current grade. Fill consists of variable material including clay, sand and gravel, brick, concrete, cinders, coal, glass and miscellaneous material. Borings installed inside the on-site New Boiler House and Racking/Fermentation House encountered obstructions at depths of approximately 2.5 to 5 feet. The obstructions are apparently sub-basement basement slabs and wide spread-foot foundations. Native material at the Property consists of an upper layer of silt or fine sand approximately 7 to 17 feet thick underlain by fine to coarse sand with some gravel which extends to depths greater than 62 feet. The upper layer of silt/fine sand may be absent in areas with thick fill or areas with deep basements/cellars. A northwest to southeast geologic cross-section of the Property is shown in Figure 6.

Saturated conditions were encountered in the underlying sand deposits during drilling at depths between 43 and 50 feet below grade. Static water levels gauged prior to sampling ranged from 40.20 to 51.12 feet below ground surface (July 12, 2010 to October 5, 2010). Gauge data is summarized in Table 1.

Relative water table elevations were calculated by subtracting the measured water level from surveyed reference points established at the top of the well casings. Water level measurements were used to determine a direction of groundwater flow using the computer program Surfer 7.0. Gauge data measured between July 12 and October 5, 2010 indicated groundwater flow to be generally southeast, a direction 90 degrees from the anticipated southwest flow direction based on regional hydrogeological characteristics. Potentiometric maps for July 12 and October 5, 2010, are provided in Figure 7. The water table gradient between MW-5 and MW-3 (parallel to groundwater flow) was calculated at approximately 0.002 feet/foot.

5.2 Sampling Results

5.2.1 Soil Conditions

Analytical results from soil sampling were initially compared to the VAP generic direct contact standards (GDCSs; OAC 3745-300-08). The residential land use scenario was used to evaluate data as the appropriate exposure scenario for future planned Property use. A detailed review and discussion of applicable standards is presented in Section 8.0.

Evidence of foreign material was detected in several of the borings. Fill materials containing man-made materials (brick, concrete, cinders, etc.) are present across much of the Property (see Figure 6). PID readings across the Property were relatively low to non-detect (highest on-site reading of 3.8 parts per million [ppm] in sample MW-3, 0-2'). PID results are included on the boring logs in Appendix G.

VOCs were detected in 3 of 26 soil samples submitted for VOC analysis. Methylene chloride was present in samples B-8 (0-2') and B-12 (16-18') at concentrations of 0.0103 mg/kg and 0.00793 mg/kg, respectively. Acetone was detected at 0.0561 mg/kg in sample B-2 (4-6'). Both methylene chloride and acetone are common laboratory reagents; as such, they are often found as contaminants introduced into samples at the laboratory. Given the low concentrations of methylene chloride and acetone reported in soil samples and the presence of methylene chloride in laboratory QA/QC blanks, the presence of methylene chloride and acetone is considered laboratory artifacts and not representative of field conditions. None of the VOC concentrations were above GDCSs.

PAHs were detected in 7 of 26 samples analyzed. These samples contained between one and 15 different PAH compounds. The highest single concentration was pyrene in sample B-11 (4-6') at 43.2 mg/kg. Three of the seven samples (B-11 [4-6], B-12 [24-26'] and MW-2 [0-2']) had individual PAH concentrations greater than 1.0 mg/kg. All samples with detectable PAHs are from fill samples but not all fill samples analyzed for PAHs had detectable PAHs. Individual PAHs were detected above residential GDCSs in two samples (B-11 [4-6'] and MW-2 [0-2']). The same two samples (as well as sample B-12 [24-26']) also had detection limits of one or more PAH compounds which were above GDCSs.

The TPH carbon range C_6-C_{12} (low-range) was not detected in any of the 26 samples analyzed for low-range TPH. The mid range TPH carbon range (C_{10}-C_{20}) was present at detectable concentrations in five samples at a maximum concentration of 844 mg/kg (B-11 [4-6']). TPH C_{20}-C_{34} (high-range) was detected in four of the samples at a maximum of 7,600 mg/kg (B-11 [4-6']). The concentrations of high-range carbons in sample B-11 (4-6') exceeded GDCSs for sandy soils (5,000 mg/kg).

Twenty-six soil samples were analyzed for PCBs. PCBs were detected in samples B-11 (4-6') and B-12 (24-26') at concentrations of 0.376 mg/kg and 0.0501 mg/kg, respectively. Neither of the concentrations were above GDCSs.

All of the soil samples analyzed contained detectable concentrations of five or six metals (arsenic, barium, cadmium, chromium, lead, and/or mercury). Metals are naturally occurring; the presence of metals in soils is not necessarily evidence of impact from hazardous substances. Concentrations of metals ranged from below laboratory detection limits to maximum concentrations of 23.2 mg/kg arsenic (sample B-5, 20-21'), 1310 mg/kg barium (B-5, 20-21'), 4.38 mg/kg cadmium (B-2, 4-6'), 30.5 mg/kg chromium (B-11, 4-6'), 5,800 mg/kg lead (B-5, 20-21'), and 4.44 mg/kg mercury (B-5, 20-21'). Selenium and silver were below detection limits in all soil samples analyzed for metals.

The concentration of arsenic in 20 of 26 samples analyzed for metals was above the VAP residential GDCS of 6.7 mg/kg. Lead in three samples (B-2 [4-6'], B-5 [20-21'], and B-12 [24-26]) were above the VAP residential standard of 400 mg/kg. Concentrations of the remaining six metals were not quantified above VAP residential GDCSs. Elevated arsenic was detected in both fill and native soils. The elevated lead samples were from fill material.

Soil laboratory results are summarized in Table 2. Complete laboratory reports are included in Appendix K.

5.2.2 Test Pit Results

Demolition debris encountered in the three on-site test pits consisted of variable fill materials including mostly bricks and silty sandy clay but also small quantities of concrete, wood debris, tile, and miscellaneous materials.

Test pits were visually inspected for potential asbestos-containing materials. One suspect material, a small piece of "transite", was observed in test pit TP-1 at a depth of approximately 15 feet. Representative soil samples from each pit were submitted to the ATC asbestos laboratory and screened for the presence or absence of asbestos fibers. Due to the nature of the matrix (loose soil), the percentage of asbestos could not be determined. Asbestos fibers were present in four of the nine samples analyzed (TP-1 [15'], TP-2 [8' and 15'], and TP-3 [2']). The asbestos observed consisted of both chrysotile and amosite varieties.

Lead was detected in each test pit sample ranging from 33.6 mg/kg (TP-3, 15') to 2,360 mg/kg (TP-3, 2'). Four of the samples (TP-1 [2' and 8'], TP-2 [15'] and TP-3 [2']) contained lead at concentrations greater than the residential GDCS of 400 mg/kg.

Test pits results are summarized in Table 3. Complete laboratory results are included in Appendix L.

5.2.3 Groundwater Conditions

No detectable concentrations PAHs were quantified in any of the nine groundwater samples analyzed.

One VOC, trichloroethylene (TCE), was detected in wells MW-1 (both sampling events), MW-2 (both sampling events), and MW-5 (the October 5 event) ranging from 0.0124 mg/L (MW-5) to 0.0754 mg/L (MW-3, October 5, 2010). During the July sampling event, the greatest TCE concentration (0.0406 mg/L) was detected in well MW-1 (at the time, the most upgradient well). During the October sampling event, the greatest TCE concentration (0.0754 mg/L) was detected in well MW-3 (the downgradient well). TCE was detected in the northwest off-site well (MW-5) at a concentration of 0.0124 mg/L. The potable use standard for TCE is 0.005 mg/L; each instance of detectable TCE is above the potable use standard. The TCE plume extends northwest to southeast across the Property from the northwest adjacent West Sixth Street to the south edge of the Property at well MW-3. The presence of COCs in groundwater above unrestricted potable use standards was demonstrated in more than one groundwater sample as required by OAC3745-300-07(F)(2).

Groundwater laboratory results are summarized in Table 4. Complete laboratory reports are included in Appendix M.

5.2.4 PCB Evaluation Results

Data generated from non-soil PCB analyses were compared 40 CFR 761 and relevant USEPA guidance which specifies action levels for total PCBs in caulk samples (50 mg/kg), in surface wipe samples (10 µg/100 cm^2), and flooring core samples (1 mg/kg). The standards used assume the use of the Property will be for high occupancy (more than 16.8/6.7 hours per week depending on impacted material) and no "cap" will be emplaced. Such standards are for un-restricted property use.

PCBs were detected in one of the ten caulk/glazing samples submitted for analysis at a concentration of 3.58 mg/kg (sample BWH-01-05). The sample was collected from a window on the north side of the Bottling/Wash House. The US EPA action level for PCBs in caulk is 50 mg/kg. No caulk samples contained PCBs above the action level (50 mg/kg).

PCBs were detected in 59 of the 85 wipe samples analyzed. Fourteen of the samples contained PCB concentrations greater than the 10 µg/100 cm^2 USEPA action level. All seven bulk roofing material samples contained detectable PCBs; only five of the seven samples were above the USEPA bulk material action level of 1 mg/kg. The samples above action levels represent eight distinct areas of the on-site buildings as summarized below.

Location	Estimated Area
Engine Room of New Boiler House - 1st Floor	1,500 sq. ft.
New Boiler House, Stained Area 1 - 2nd Floor	400 sq. ft.
New Boiler House, Stained Area 2 - 2nd Floor	400 sq. ft.
New Boiler House - 3rd Floor	100 sq. ft.
New Boiler House - Roof	4,200 sq. ft.
Bottling/Wash House - 1st Floor	1,000 sq. ft.
Bottling/Wash House Stained Area - 2nd floor	400 sq. ft.
Racking/Fermentation House Stained Area - 4th Floor	400 sq. ft.

The impacted areas identified from the second floor of the New Boiler House, second floor of the Bottling/Wash House, and fourth floor of the Racking/Fermentation House are distinct dark stained areas the extent of which is clearly visible (and confirmed by subsequent

sampling). The lateral extent of other impacted areas was determined by additional wipe sampling and analysis. The impacted area on the first floor of the New Boiler House consists mainly of equipment platforms elevated approximately 6-12 inches above floor grade.

Concrete samples contained PCB concentrations ranging from below laboratory detection limits (i.e., <0204 mg/kg) in sample C-3 to 3.81 mg/kg in sample C-1. Only one sample (C-1) contained PCB concentrations above the USEPA action level of 1 mg/kg. Visual evidence of vertical staining was not observed. Each core concentration and the corresponding surface wipe sample concentration are summarized below.

Core ID	PCB Result	Surface Wipe ID	PCB Result
C-1	3.81 mg/kg	P-7	16.4 µg/100 cm^2
C-2	0.597 mg/kg	P-10	218 µg/100 cm^2
C-3	<0.0204 mg/kg	P-33	12.2 µg/100 cm^2

Core sample concentrations do not show a linear relationship to the surface wipe sample concentrations.

PCB results are summarized in Table 5 and 6. Complete laboratory reports are included in Appendix N.

5.2.5 Asbestos Survey Results

A total of 178 bulk samples were collected from the on-site buildings during the inspection. Bulk samples were collected from 91 different homogeneous areas, and 131 samples were submitted for analysis. Fifty-four (54) samples representing 15 types of asbestos-containing building materials (ACBMs) were found to contain greater than one percent asbestos. The EPA defines an asbestos-containing material (ACBM) as any material or product, which contains greater than 1 percent (>1%) asbestos by weight. The 15 types of ACBM identified included various types of 1) pipe insulation, 2) boiler insulation, 3) duct insulation, 4) boiler breeching insulation, 5) boiler gasket, 6) block boiler insulation, 7) plaster, 8) window glazing, 9) "transite", 10) fire door insulation, 11) rope gasket, 12) tank insulation, 13) stored asbestos materials 14) floor tile, and 15) floor tile mastic.

The complete asbestos inspection report is included in Appendix H.

5.2.6 LBP Assessment Results

Lead containing paint was identified by XRF analysis to be on several of the building components tested. Components included beams, columns, doors, door/window casings, sills, handrails, ladders, racks, elevator doors, stair stringers, eaves, trim, metal walkway parts, baseboards, tanks, and lockers. Similar non-LBP components were also identified. The building components observed to be in defective condition (fair or poor) and found by XRF analysis to contain lead in concentrations at or above 1.0 mg/cm^2 or 0.5% lead by weight were identified as potential Lead-Based Paint Hazards. Component surfaces that were in an intact condition at the time of the inspection could also be LBP. All LBP, regardless of condition, has the potential to become a LBP hazard if disturbed.

The complete LBP inspection report is included in Appendix I.

5.2.7 Hazardous Materials/Special Wastes Inventory

Potentially hazardous materials/special wastes were observed throughout the facility except the basement of the Racking/Fermentation House.

The most widespread special wastes identified at the facility were fluorescent light fixtures and bulbs. Fluorescent light fixtures contain light ballasts which may contain small amounts of PCBs if manufactured prior to 1977. Given the age of the facility, a large number of light fixtures are likely PCB-containing. Fluorescent light bulbs contain small amounts of mercury. Fluorescent light fixtures/bulbs were noted throughout the facility.

Containerized materials ranged from less than one quart-sized containers to 55-gallon drums. Containers ranged from good condition with labels to poor condition without labels. Bagged materials appeared in the worst condition. Leakage from containers/bags appeared to be minimal. A number of materials included in the inventory, such as enzymes and cellulose, do not appear to be hazardous materials but were included in the inventory for the sake of completeness. Some non-hazardous materials may require special disposal. Such determinations were beyond the scope of the inventory. Inventory findings are summarized in the following table.

Hazardous and Potentially Hazardous Materials Survey		
Material	**Size**	**Quantity**
Capacitors	< 5 gal.	14
Containers (Misc. Contents)	5 gal. or less	330
	10 - 50 gal.	12
	55 gal.	45
Fluorescent Lights	fixtures	151
	bulbs	333
Bagged Materials	mostly 50 lbs.	87
Oil Reservoirs	~ 5 gal.	9
Batteries	automobile	1
Bulk granules	< 5 cubic yards	2 locations
Propane Cylinders	33 lbs.	6
Refrigerant	~ 2 gal.	1

A complete list of materials in included in Table 7.

5.3 QA/QC Data Review

Per the DQOs, five aspects of data quality were reviewed in order to assess the acceptability of the collected information.

Use of Certified Laboratory

All soil, groundwater, and PCB samples (except caulk samples) were analyzed by Belmont Labs. Belmont Labs is a laboratory certified under the VAP (#CL0032) to perform the following analyses: arsenic, barium, cadmium, chromium, lead, selenium and silver by Method 6010B, mercury by Method 7470A/7471A, volatile organic compounds by Method 8260/8260B, semi-volatile organic compounds by Method 8270C, PCBs by Method 8082, and TPH diesel and gasoline ranges by Methods 8015B and 8015A-modified.

Caulk samples were analyzed by Pace Analytical Services, Inc. (Pace Analytical). Pace Analytical is certified under the VAP (#CL0065) to perform PCB analysis by Method 8082.

Asbestos samples were analyzed by the ATC Cincinnati, Ohio, laboratory.

Sample Collection and Handling

Sampling and field activities were conducted in general accordance with DQOs and site-specific operating procedures as provided in Appendices A and F, respectively. Any deviations are documented in the appropriate sections of this report.

Laboratory QA/QC Review

ATC reviewed analytical laboratory reports as discussed in Section 4.8.2. One documented qualifier of potential concern was noted.

Laboratory analysis of the samples submitted often required dilution of the sample due to analytical interference from compounds in the sample that were not on the target analyte list. Dilution typically raises the reported detection limits. The laboratory noted dilution as an irregularity for certain samples analyzed for PAHs but did not consider the dilution to invalidate the data. In three instances (samples B-11 [4-6'], B-12 [24-26'], and MW-2 [0-2']) the elevated detection limits were above the regulatory standards for certain PAH compounds. In such cases the analytes with elevated detection limits are assumed to exceed action levels.

Other irregularities noted in the laboratory reports were deemed generally of no concern and unlikely to invalidate analytical results.

QA/QC Sampling

QA/QC duplicate sample results were compared to original sample results. Relative percent difference (RPD) was used as a measure of duplicate variance from the original sample (see Appendix E). Soil duplicates generally have a greater variability than water samples. A RPD less than 25% for water and less than 50% for soils is generally considered acceptable (USEPA Region II, 2001). Experience suggests that higher RPDs in soils is not uncommon. Given that most duplicate samples did not contain detectable concentrations of analytes, RPDs were calculated for only seven samples. QA/QC sample results and RPDs are summarized in Table 8-A.

Two of the three soils sample duplicates had at least one compound that had an RPD greater than 50% (B-5 [20-21]/D-1 and B-2 [12-14]/D-6). Because of the variability common in soils, these are RPDs are not considered concerns. One of the two PCB wipe sample duplicates (P-33/P-D) that have RPDs had an RPD greater than 50%. The reason for this variability in wipe sampling is not certain but may be due to variability in the degree of staining/PCB concentration in the area of the sample. The two groundwater samples with RPDs were both less than 10%.

No QA/QC equipment blanks or trip blanks had detectable analytes. One of three field blanks had low concentrations of chloroform and chloromethane, both of which are commonly present at low concentrations in chlorinated water. Given the retail source of distilled water used in creating the blanks, these compounds are likely contaminants from the source of the water and not associated with the field environment. Based on QA/QC results, field conditions and procedures do not appear to have been a source of potential sample contamination.

Review of QA/QC information suggests that collected data meet the stated goals of the DQOs and that the data may be relied upon to support the conclusions of this study.

6.0 PATHWAY EVALUATION

6.1 Primary Source Areas

Source areas are likely shallow soils impacted by historical commercial/industrial operations, shallow fill material including building demolition debris, impacted building surfaces, and hazardous building components. Elevated concentrations of COCs, primarily PAHs, TPH, arsenic and lead, were quantified in shallow fill materials across the Property. Arsenic concentrations above residential standards were quantified in both shallow fill and deeper native soils. Although generally not considered in pathway evaluation, current Property source areas include impacted building surfaces, components and residual materials. Elevated lead and PCB concentrations were identified on building surfaces throughout the facility. Hazardous building components included asbestos-containing materials, light fixtures, capacitors, oil reservoirs, and residual chemical containers.

6.2 Receptor Populations

The Property is currently vacant. On-site receptors are visitors and ecological receptors (plants/animals). Hudepohl Square, LLC plans to redevelop the Property for mixed residential and commercial purposes. Receptors present during redevelopment of the Property will include construction workers. After redevelopment of the Property, potential receptors will include residents and commercial employees.

The Property is located in a commercial use area of Cincinnati. Potential off-site receptors include visitors and employees. Agriculture products, livestock, fish, and/or shellfish are not cultivated in the Property vicinity and are not considered potential receptors.

6.3 Affected Media/Transport Pathways

6.3.1 Soil

Soils beneath the site consist of fill materials up to 27 feet thick underlain by silt and sand deposits to depths greater than 62 feet. Direct contact (dermal contact and ingestion) with soils is the current primary point of soil exposure for Property visitors, and would also be the

primary point of future exposure for construction workers (during Property redevelopment) and for residents. Currently, much of the underlying soils and fill are covered by buildings and pavement.

6.3.2 Groundwater

Groundwater at the Property lies approximately 43 to 50 feet below the ground surface. Groundwater is located in permeable silt and sand outwash deposits and flows to the southeast at a gradient of approximately 0.002 feet/foot. Groundwater below on-site source areas could be impacted by leaching of COCs into groundwater from overlying soils. Sampling and analysis of groundwater below the Property indicate that groundwater has been impacted by trichloroethane (TCE). Soil analytical results did not identify an on-site source area for TCE or similar volatile chemicals. The presence of TCE in an off-site upgradient well suggests an off-site source for TCE.

Groundwater is not used as a source of potable water at the Property or in the vicinity of the Property and is not considered a viable potential future source.

Groundwater is not considered a viable transport/migration pathway.

6.3.3 Surface Water/Sediments

No surface water/sediments are present in the source area.

The Property is covered by buildings, surficial fill/demolition debris, sparse vegetation and paved areas. Stormwater runoff is a potential mechanism for migration of COCs from unpaved areas to stormwater catch basins by physical movement of particles via overland flow. The storm water sewer system in downtown Cincinnati is a combined system which is connected to a public sewer treatment system. Particulates eroded from the exposed areas of the Property will enter the stormwater system and will not be available for receptor exposure. Therefore, stormwater runoff is not considered a migration pathway.

6.3.4 Air

Proposed plans include construction of residences. If buildings are constructed directly above source areas, migration of soil and groundwater vapors to indoor air are possible pathways.

Although PAHs are not highly volatile, this pathway is considered potentially complete for PAHs in on-site soils.

The groundwater to indoor air pathway was not quantitatively evaluated for this study. Given the proposed residential redevelopment of the Property and the permeable nature of underlying deposits (silt and sand), volatilization to indoor air is a potential concern. Qualitative evaluation of TCE does not suggest that concentrations quantified would pose an unacceptable health risk. Further evaluation would be required to quantify the actual risk posed by TCE.

Soils at the Property are currently covered by buildings, pavement, fill/demolition debris or vegetative cover with minimal soil exposure. Upon completion of the proposed development, the source areas will likewise be covered by vegetative cover, pavement and/or buildings. Accordingly, wind erosion and air particulate exposures are not considered current or future viable pathways except during the construction phase.

6.3.5 Building surfaces, components and residual materials

Impacted building surfaces (PCBs), components (ACM/LBP), and residual materials are sources of COCs through direct contact and/or airborne particulates.

6.4 Pathway Completeness

For a pathway to be complete, three elements must be present: i) a source area, ii) receptor populations, and iii) a transport mechanism. Currently, direct contact with impacted soils, potential PAH in soil to indoor air (inhalation), and TCE in groundwater to indoor air (inhalation) appear to be complete pathways for exposure to COCs relative to the Property. The three pathways would also be potentially complete after redevelopment. Direct contact

and/or airborne exposure from building surfaces, components, and residual materials would also be complete pathways during construction activities. Pathways via groundwater (ingestion) and surface water (dermal contact/ingestion) do not appear to be complete nor would they be expected to be complete in the future.

7.0 APPLICABLE STANDARDS

Five potentially complete pathways were identified associated with the Property: i) soil direct contact either by ingestion or dermal contact, ii) inhalation or ingestion of air born soil particulates during future construction activities, iii) soil to indoor air of PAHs if a building is present over source areas, iv) groundwater to indoor air of TCE if a building is present over source areas and v) direct contact and airborne exposure to impacted building surfaces, components and residual materials during construction. Other pathways were not considered complete.

The VAP's generic soil direct contact standards (OAC 3745-300-08[C][3]) are applicable to both of the complete soil pathways. Within the Generic Numerical Standards framework, residential land use is the appropriate category for application to future land use at the Property. The construction/excavation worker standard is also applicable during construction of future buildings on-site. The residential and construction/excavation worker direct contact standards for metals and PAHs are provided in Table 3. TPH standards for sandy soils (the most conservative standard for on-site soils) are 1,000 mg/kg (low-range carbons), 2,000 mg/kg (mid-range carbons), and 5,000 mg/kg (high-range carbons).

VAP generic standards are not available for the indoor air pathway. Determination of such standards require completion of modeling and a property-specific risk assessment which was beyond the scope of the present study. PAHs are minimally volatile. As such, the indoor air risk associated with such compounds is generally low. Further study of TCE and PAHs relative to the indoor air pathway (including the development and specification of property specific TCE/PAH indoor air standards) will be deferred until after completion of remedial actions. Calculation of site-specific target levels for TCE/PAH via the indoor air pathway will be calculated at that time, if appropriate, based upon post-remedial concentrations of such compounds.

Standards for building surfaces and components are based on USEPA, ODH, and other sources as documented in previous relevant sections of this report. Residual materials do not have a standard as it is assumed that such materials will be removed in bulk from the facility.

8.0 SUMMARY OF FINDINGS

8.1 Soil / Demolition Debris Conditions

Analytical results for soil boring samples and test pit samples were compared to the VAP GDCSs for residential and construction/excavation worker exposure scenarios. Eight COCs were quantified above the single chemical residential GDCSs.

Arsenic was quantified in 20 soil samples (both fill and native soils) at concentrations exceeding the single chemical residential GDCSs. None of the arsenic concentrations exceeded the construction/excavation worker GDCS. Lead was quantified in three soil samples and four test pit samples above the residential GDCS of 400 mg/kg. Four of the samples (B-5 [20-21'], TP-1 [2'], TP-2 [15'], and TP-3 [2']) also exceeded the 750 mg/kg construction and excavation worker GDCS.

Four PAHs (benzo[a]anthracene, benzo[b]flouranthene, benzo(a)pyrene, and indeno[1,2,3-cd]pyrene) were detected in sample B-11 (4-6') above residential single chemical GDCSs. Benzo(a)pyrene was also detected in sample MW-2 (0-2') above the residential single chemical GDCS. Detection limits for benzo(a)pyrene and dibenz(a,h)anthracene were above the residential soil standards for single chemicals in boring B-11 (4-6'), B-12 (24-26'), and/or MW-2 (0-2'). No PAHs were above the single chemical construction/excavation worker GDCSs.

High-range TPHs were quantified above the standard for coarse-grained soils in sample B-11, 4-6' (7,600 ppm). Land use is not taken into account relative to TPH standards.

Trace amounts of asbestos were detected in four of the nine demolition debris samples.

8.1.1 Multiple Chemical Effects

Given that multiple COCs were detected in soils, the cumulative risk associated with exposure to those COCs was calculated. Cumulative risk was calculated for each individual soil sample. Per the standard, cumulative risk values (i.e., cumulative risk ratios) were calculated separately for COCs with carcinogenic effects and COCs with non-carcinogenic effects (some

chemicals are included in both categories). If the cumulative risk ratios for COCs are greater than one, then a cumulative adjustment for multiple chemicals must be made to the generic standards. Lead and TPH are evaluated separately from the other COCs per the VAP standards and excluded from the multiple chemical adjustment. Given that acetone and methylene chloride (the only VOCs quantified in on-Property soils) are likely laboratory artifacts, VOCs were excluded from the multiple chemical evaluation. Silver and selenium were not detected in any samples; these metals were also excluded. Assumptions and procedures used for the evaluation are detailed in Appendix E.

The cumulative risk ratio is calculated by first determining the risk ratio for each COC. The risk ratio is calculated by dividing the maximum concentration of each COC from the Identified Area by the GDCS for either carcinogens or for non-carcinogens as appropriate (Table III, Columns 2 and 3; OAC 3745-300-08). The resulting numbers are summed separately for COCs with carcinogenic effects and COCs with non-carcinogenic effects.

The results of these calculations on the data set are greater than one for 23 samples. The bulk of the risk in 21 of these samples appears related to the presence of arsenic in the sample. Elevated PAHs appear to account for the high risk in the remaining two samples. If arsenic is removed from consideration (a plausible scenario given that arsenic is naturally occurring and may potentially be mitigated by calculation of background concentrations), only 5 samples exceed the multiple chemical standard, primarily due to the presence of high concentrations of PAHs in these samples (B-2 [4-6' & 12-14'], B-11 [4-6'], B-12 [24-26'], and MW-2 [0-2']).

Soils across the Property do not meet the VAP generic direct contact standard for a residential exposure scenario when multiple chemical effects are considered. All COCs were well below GDCSs (both single and multiple chemical) for construction/excavation exposure scenario standards except for samples B-5 (20-21') for lead and sample B-11 (4-6') for TPH (see Tables 2 and 9). A tabulation of the above-referenced calculations and results are provided in Table 9 (with arsenic) and Table 9B (without arsenic).

Arsenic-impacted soils are found throughout the Property in both fill and native materials. PAH-impacted soils are located in shallow to deep soils located below the Bottling/Wash House, in demolition debris located in the central portion of the Property, and in shallow soils

in the south-central portion of the Property. Lead-impacted soils were likewise detected in soils below the Wash House, in the demolition debris, and in deep fill located along West Sixth Street. Trace amounts of asbestos were detected in the demolition fill. The amount of lead- and asbestos-impacted demolition fill is approximately 10,000 cubic yards (assuming a depth of approximately 30 feet of debris across the area of the former buildings).

8.2 Groundwater Conditions / Determination

Detectable concentrations of COCs were not quantified in on-site groundwater, except for trichloroethylene (TCE). Concentrations of TCE ranging from 0.0124 mg/L to 0.0754 mg/L were detected in south-central wells MW-1 and MW-3 and northwest off-site well MW-5. TCE was not detected in the eastern and western wells (MW-2 and MW-4). The source of TCE appears to be off-site to the northwest of the Property (up-gradient). Groundwater flow is towards the southeast.

According to the Phase I Property Assessment, the north adjacent property was formerly occupied by a lumber yard from approximately 1883 to 1944. A furniture manufacturer occupied the northwest adjacent property from approximately 1883 to 1891 and a machinery manufacturer from approximately 1923 to 1962. Given the lack of TCE impact quantified on-site and the presence of TCE in an up-gradient well, the TCE impact is considered to be "pass-through" in nature from an off-site, up-gradient source.

Based on the Ground-Water Resources of Hamilton County map, the area of the Property is underlain by an unconsolidated saturated zone capable of yielding more than 500 gallons per minute. Therefore, groundwater at the Property is classified as critical resource groundwater per OAC 3745-300-10(B)(1)(b). Although the area of the Property likely meets requirements for an urban setting designation per OAC 3745-300-10(C), such designation has not as yet been requested.

8.3 Building Evaluation

PCBs were detected in floor wipe samples above standards in eight separate areas of on-site buildings. Based on concrete core samples, PCB penetration into underlying flooring material appears to be minimal except in the first floor area of the New Boiler House. This

area will likely require removal of at least 2-inches of concrete and/or encapsulation. The extent of impacted flooring comprises a total of approximately 4,200 square feet. PCBs above standards were also detected in bulk roofing material on the roof of the New Boiler House associated with damaged lighting capacitors. The amount of impacted roofing material is approximately 10 cubic yards.

No window caulking containing PCBs above the standards was detected.

Fifteen types of building materials ranging from good to severely damaged were found to contain asbestos. These materials included 1) pipe insulation, 2) boiler insulation, 3) duct insulation, 4) boiler breeching insulation, 5) boiler gasket, 6) block boiler insulation, 7) plaster, 8) window glazing, 9) "transite", 10) fire door insulation, 11) rope gasket, 12) tank insulation, 13) stored asbestos materials 14) floor tile, and 15) floor tile mastic.

Lead containing paint was identified by XRF analysis to be on several of the building components tested. Components included beams, columns, doors, door/window casings, sills, handrails, ladders, racks, elevator doors, stair stringers, eaves, trim, metal walkway parts, baseboards, tanks, and locker. Similar non-LBP components were also identified. The building components observed to be in defective condition (fair or poor) and found by XRF analysis to contain lead in concentrations at or above 1.0 mg/cm^2 or 0.5% lead by weight were identified as potential Lead-Based Paint Hazards.

9.0 CONCLUSIONS

Arsenic, lead, PAH and TPH-impacted soils were detected at the Property.

Arsenic concentrations above residential standards were detected in 20 samples from both fill and native materials across the Property at a maximum concentration of 23.2 mg/kg. Lead was detected above the residential standard (400 mg/kg) in seven samples. PAH-impacted soils were quantified in fill in three samples above the residential single chemical standard. Calculation of multiple chemical risk for each sample indicated that 23 of the samples have carcinogenic and/or non-carcinogenic risks greater than 1. Multiple chemical risks are generally elevated due to the presence of arsenic in each sample, but in five samples PAH concentrations are also significant (B-2 [4-6' & 12-14'], B-11 [4-6'], B-12 [24-26'], and MW-2 [0-2']). The elevated PAHs (multiple chemical risk) are from fill materials.

A graphic summary of single chemical and multiple chemical results at the Property is shown in Figure 7A (arsenic) and Figure 7B (PAH, TPH, lead, etc.).

Groundwater beneath the Property is impacted with TCE above potable use standards. The source of TCE appears to be off-site towards the northwest. TCE impact to groundwater beneath the Property is considered "pass-through" in nature. Groundwater is not used as a potable water resource at the Property; use is restricted by local ordinance. We anticipate elimination of this pathway by an environmental covenant (i.e., groundwater use restriction) for the Property. Qualitative evaluation of the groundwater to indoor air exposure pathway does not suggest that TCE concentrations quantified will exceed risk-based standards for this pathway. However, this pathway should be modeled and quantitatively eliminated through risk assessment.

Groundwater beneath the Property was analyzed for VOCs and PAHs but not metals. Lead was present in soils/demolition debris at relatively high concentrations. The soil leaching to groundwater pathway was not quantitatively evaluated for metals. As noted above groundwater is not used as potable water in the area of the Property. Qualitative evaluation of the soil leaching to groundwater exposure pathway does not suggest that lead has impacted groundwater (e.g., no PAHs were detected in groundwater although PAHs are also present in significant concentrations in on-site soils and presumably more mobile than lead).

However, this pathway should be assessed and eliminated through risk assessment and/or further sampling.

Approximately 4,200 square feet of flooring has been impacted by PCBs. Approximately the same area of roofing has also been impacted by PCBs.

Fifteen types of building materials were found to contain asbestos. LBP was identified throughout the Property. Residual hazardous materials/special wastes are present throughout the facility.

Given the planned future use of the Property for residential use, remedial measures are recommended to reduce/eliminate environmental risks as quantified.

9.1 Proposed Remedial Actions

Soils with arsenic, lead, PAH and/or TPH impact at the Property in excess of GDCSs for residential land use should be remedied. Such material includes residual demolition debris located in the central area of the Property. Excavation and off-site disposition is the most effective remedial alternative for such impact in areas that will be left open or where additional building development will be implemented. ATC understands that the central area of the Property may be redeveloped with a parking structure. Residual demolition debris is unlikely to provide a suitable foundation from a geotechnical perspective. Accordingly, removal and off-site disposal of such material is the recommended remedial action. Monitoring of soil conditions should be performed during remedial excavation activities to ensure appropriate soil/waste management. Impacted soils below existing buildings may remain in-place if a suitable engineering control (e.g., concrete cap) and associated institutional controls (deed restrictions) are implemented. Such controls are recommended for areas under the Bottling/Wash House. It should be noted that the vertical point of compliance for residential land use is 10 feet. This depth/elevation should be measured from the top of final grade relative to site redevelopment.

Concentrations of COCs in the majority of impacted soils at the Property are below both the construction/excavation worker and commercial/industrial land use direct contact standards.

Accordingly, the majority of material at the Property should not require special handling during construction activities and could potentially be re-used as "clean fill" at an appropriate commercial/industrial facility. Lead-impacted soils associated with residual demolition locally exceed the commercial/industrial and construction worker GDCSs; these materials should be disposed at a soil treatment facility or equivalent.

Given that the Property will be redeveloped for high occupancy re-use (i.e., unrestricted use), PCB-impacted flooring should be cleaned to the minimum 10 µg/100 cm^2 standard. Concrete and other flooring are typically porous meaning that surficial PCBs can be absorbed into the material. Limited coring indicated that infiltration had occurred only on the first floor of the New Boiler House. Accordingly, removal and proper disposal of the surface layer of concrete (approximately 1 to 2 inches) is recommended in this area.

Although it is unlikely that concentrations of PAHs quantified in on-site soils and concentrations of TCE in groundwater would pose an unacceptable health risk by migration to indoor air, these pathways are potentially complete and should be quantitatively evaluated as part of the remedial effort.

Remedial activity should also include abatement of asbestos-containing materials and LBP, and removal/disposal of residual hazardous materials/special wastes. These items fall outside the scope of the VAP and would be completed in accordance with applicable federal and state regulations.

10.0 REFERENCES

ATC Associates Inc., "VAP Phase I Property Assessment, Former Hudepohl Brewery, 801 West Sixth Street, Cincinnati, Ohio," Project No. 72.39245.0001, prepared for Hudepohl Square, LLC, report dated October 9, 2009.

Brockman, C.S. et al., *Surficial Geology of the Ohio Portions of the Cincinnati and Falmouth 30 x 60 Minute Quadrangles Map,* Ohio Department of Natural Resources, Division of Geological Survey, 2004.

Ohio Environmental Protection Agency, Division of Emergency and Remedial Response, *Data Quality Objectives Process Summary*, DERR-00-DI-32, January 2002.

Surfer 7.04, © 1999 Golden Software, Inc., Golden, Colorado.

United States Department of Agriculture *Soil Survey of Hamilton County*, Ohio, dated 1982.

United States Environmental Protection Agency, *Guidance on Systematic Planning Using the Data Quality Objectives Process,* EPA QA/G-4, February 2006.

United States Environmental Protection Agency, *Quality Assurance Guidance for Conducting Brownfields Site Assessments,* EPA 540-R-98-038, September 1998.

United States Environmental Protection Agency, *Polychlorinated Biphenyl (PCB) Site Revitalization Guidance Under the Toxic Substances Control Act (TOSCA),* EPA OPPT-2004-0123, November 2005.

United States Environmental Protection Agency, *Current Best Practices for PCBs in Caulk Fact Sheet - Interim Measures for Assessing Risk and Taking Action to Reduce Exposures,* www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/caulk/caulkinterim.htm, updated October 2009.

United States Geological Survey (USGS) 7.5-Minute Series *Covington, Kentucky-Ohio* Topographic Quadrangle Map, 1981, photorevised 1987.

Walker, A.C., *Ground-Water Resources of Hamilton County*, Ohio Department of Natural Resources, Division of Water, 1986.

10.1 Laboratories

Belmont Labs, 25 Holiday Drive, Englewood, Ohio 45322. Ohio VAP Certification No. CL-0032, expires 02/01/2012.

Pace Analytical Services, Inc., 7726 Moller Road, Indianapolis, Indiana 46268. Ohio VAP Certification No. CL-0065, expires 04/27/2012.

FIGURES

Figure 1 - Property Location Map
Figure 2 - Property Plan
Figure 3 - Geologic Map
Figure 4 - Groundwater Resource Map
Figure 5 - Soil Boring, Test Pit and Monitoring Well Location Map
Figure 6 - Property Geologic Cross Section
Figure 7 - Soil Results Summary Maps
Figure 8 - Groundwater Potentiometric Surface Maps (July 12 and October 5, 2010)
Figure 9 - Groundwater TCE Results Maps
Figure 10 - PCB Wipe/Bulk Material Results Summary Maps

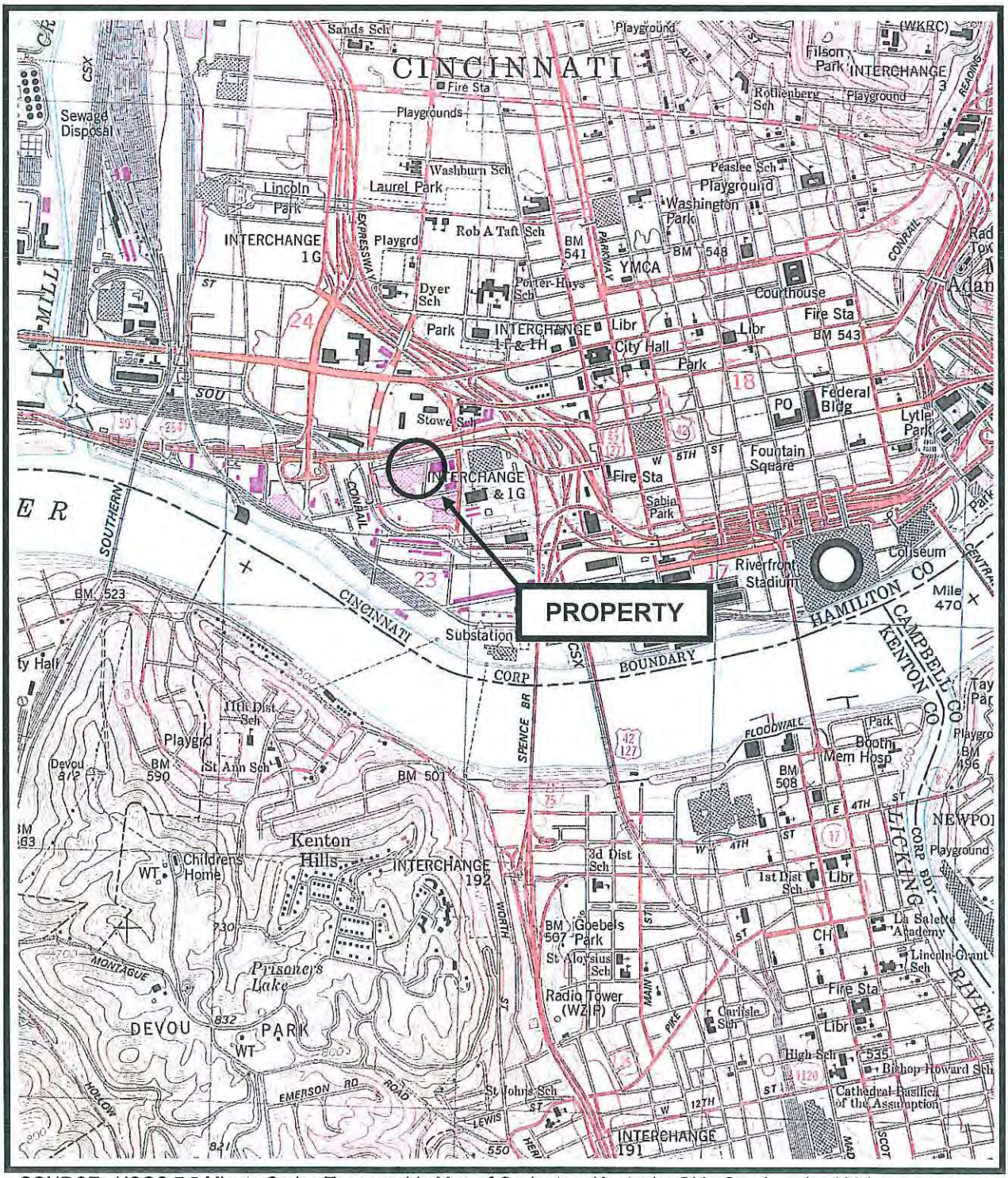
TABLES

Table 1 - Groundwater Elevation Data
Table 2 - Soil Analytical Results Summary
Table 3 - Test Pit Sample Analytical Results Summary
Table 4 - Groundwater Analytical Results Summary
Table 5 - PCB Wipe and Bulk Sample Analytical Results
Table 6 - PCBs in Caulk Sample Analytical Results
Table 7 - Hazardous Material and Chemical Container Inventory
Table 8 - QA/QC Analytical Results Summary
Table 9 - Multiple Chemical Adjustment Calculations

APPENDICES

Appendix A - Data Quality Objectives
Appendix B - Resumes of Key Personnel
Appendix C - Limitations
Appendix D - ODNR Well Logs
Appendix E - Site-Specific Operating Procedures
Appendix F - Soil Boring Logs and Well Construction Diagrams
Appendix G - Groundwater Sampling Documentation
Appendix H - Asbestos Inspection Report
Appendix I - Lead-Based Paint Inspection Report
Appendix J - Waste Disposal Documentation
Appendix K - Soil Sample Laboratory Reports
Appendix L - Test Pit Sample Laboratory Reports
Appendix M - Groundwater Laboratory Reports
Appendix N - PCB Sample Laboratory Reports

FIGURES

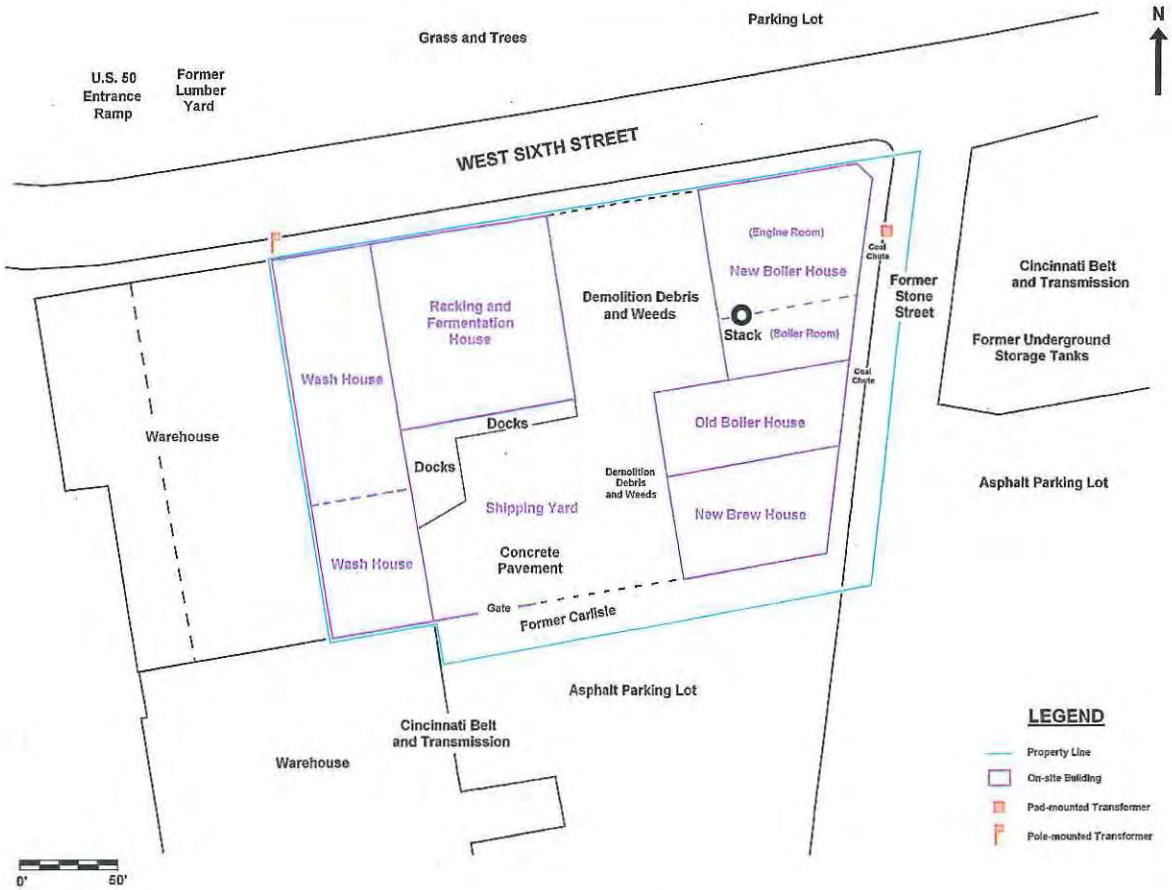


SOURCE: USGS 7.5 Minute Series Topographic Map of Covington, Kentucky-Ohio Quadrangle, 1981, photorevised 1987.

PROPERTY LOCATION MAP
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9-22-10	WAN	Wan
SCALE: 1 in. = 2000 ft.			
FIGURE: 1			

ATC



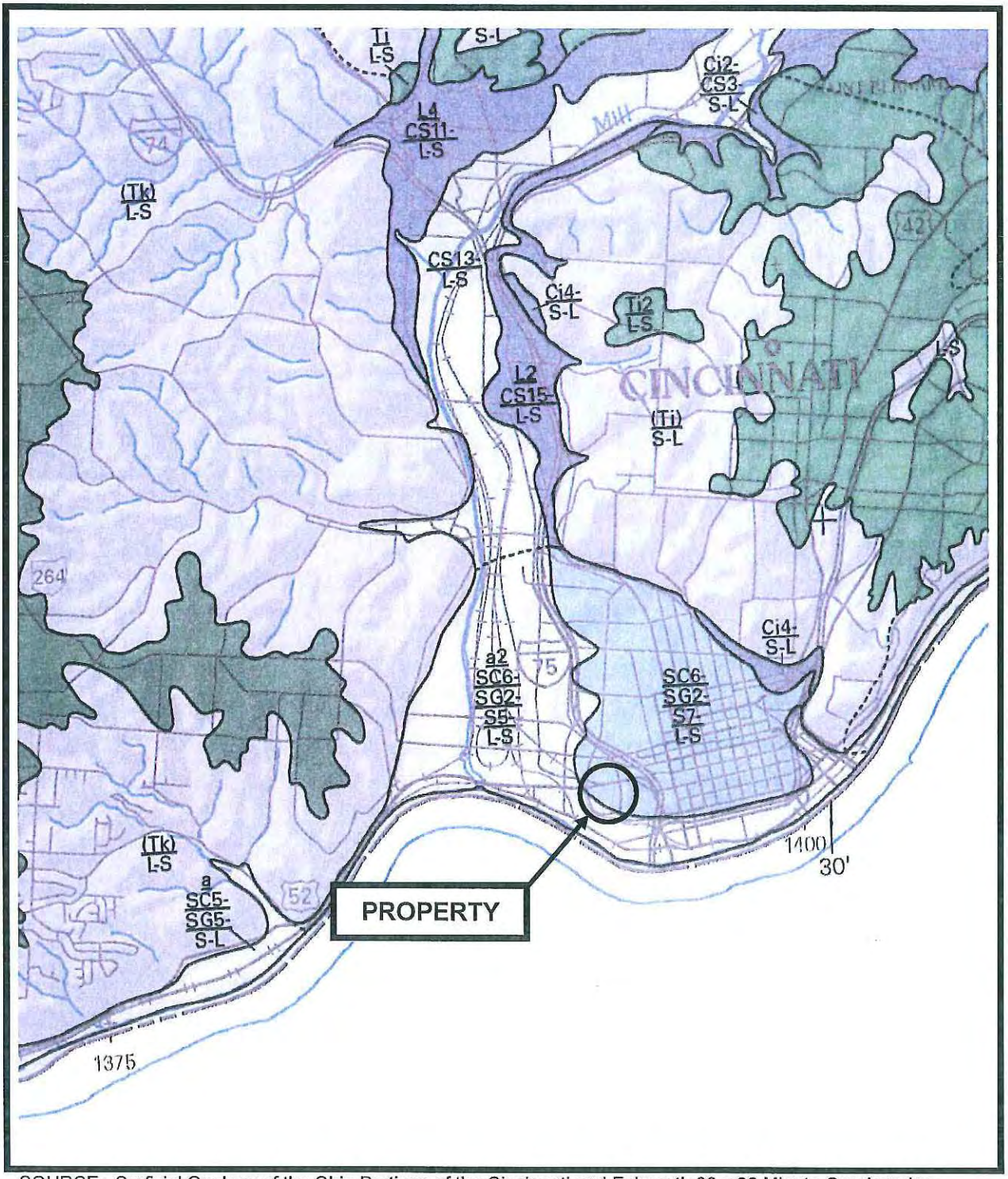
PROPERTY PLAN
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9/22/10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

FIGURE: 2

VATC

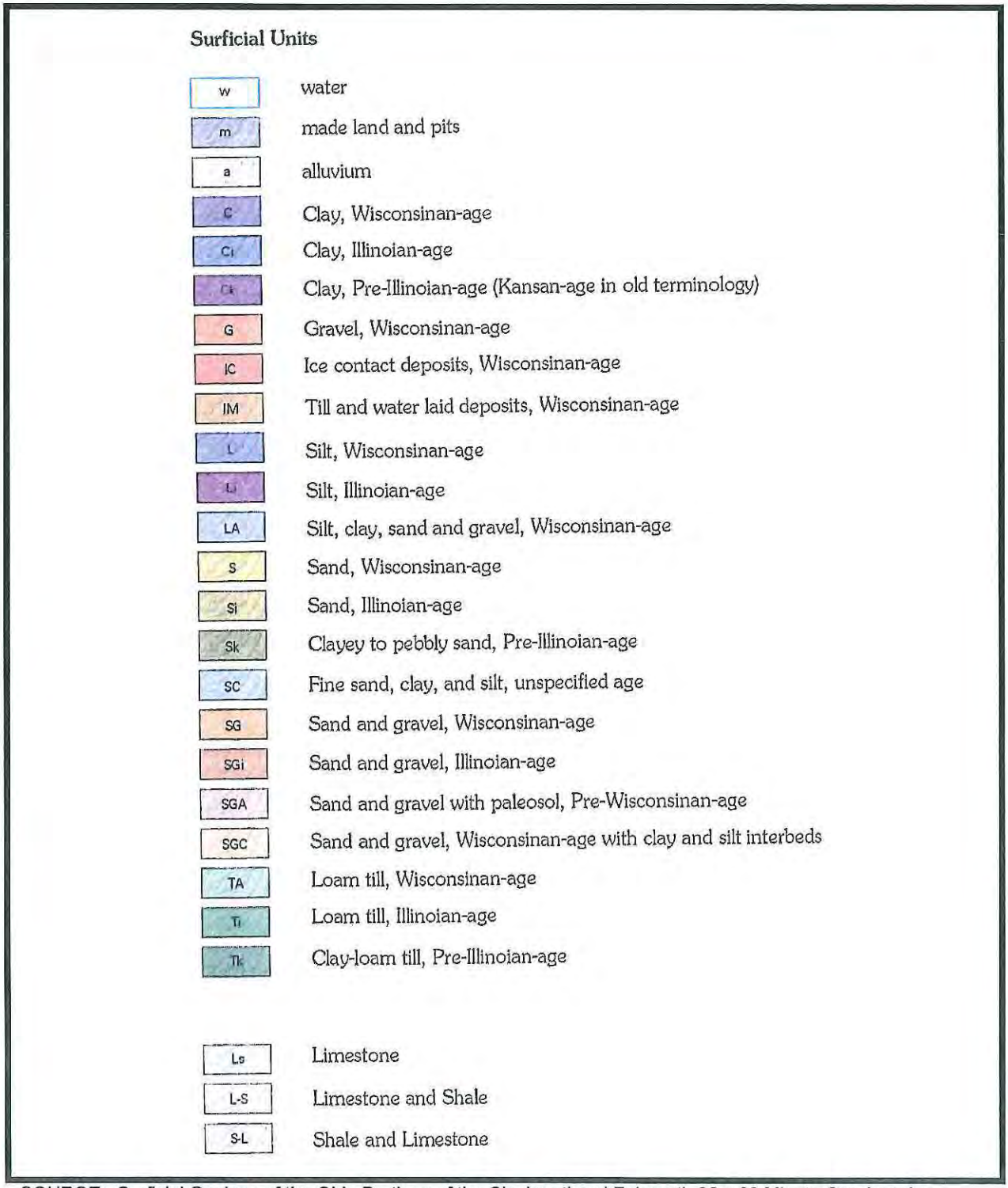


SOURCE: Surficial Geology of the Ohio Portions of the Cincinnati and Falmouth 30 x 60 Minute Quadrangles, Ohio Division of Geological Survey, Map SG-2, dated 2004.

GEOLOGIC MAP
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9-22-10	WAN	Wan
SCALE: 1 in. ~ 5200 ft.			
FIGURE: 3-A			

VATC



SOURCE: Surficial Geology of the Ohio Portions of the Cincinnati and Falmouth 30 x 60 Minute Quadrangles, Ohio Division of Geological Survey, Map SG-2, dated 2004.

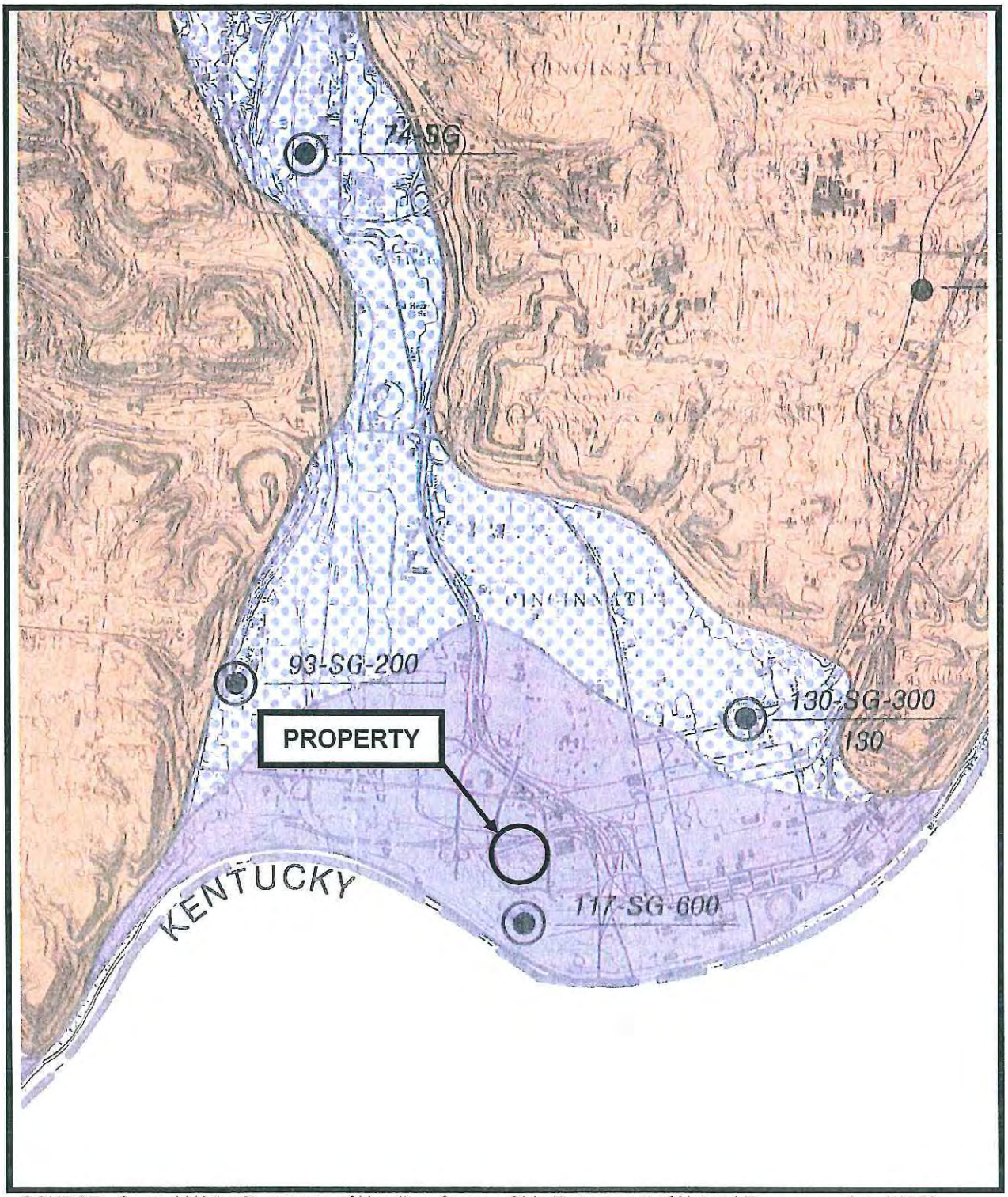
GEOLOGIC MAP LEGEND
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9-22-10	WAN	WAN

SCALE: N/A

FIGURE: 3-B

ATC



SOURCE: Ground-Water Resources of Hamilton County, Ohio Department of Natural Resources, dated 1986.

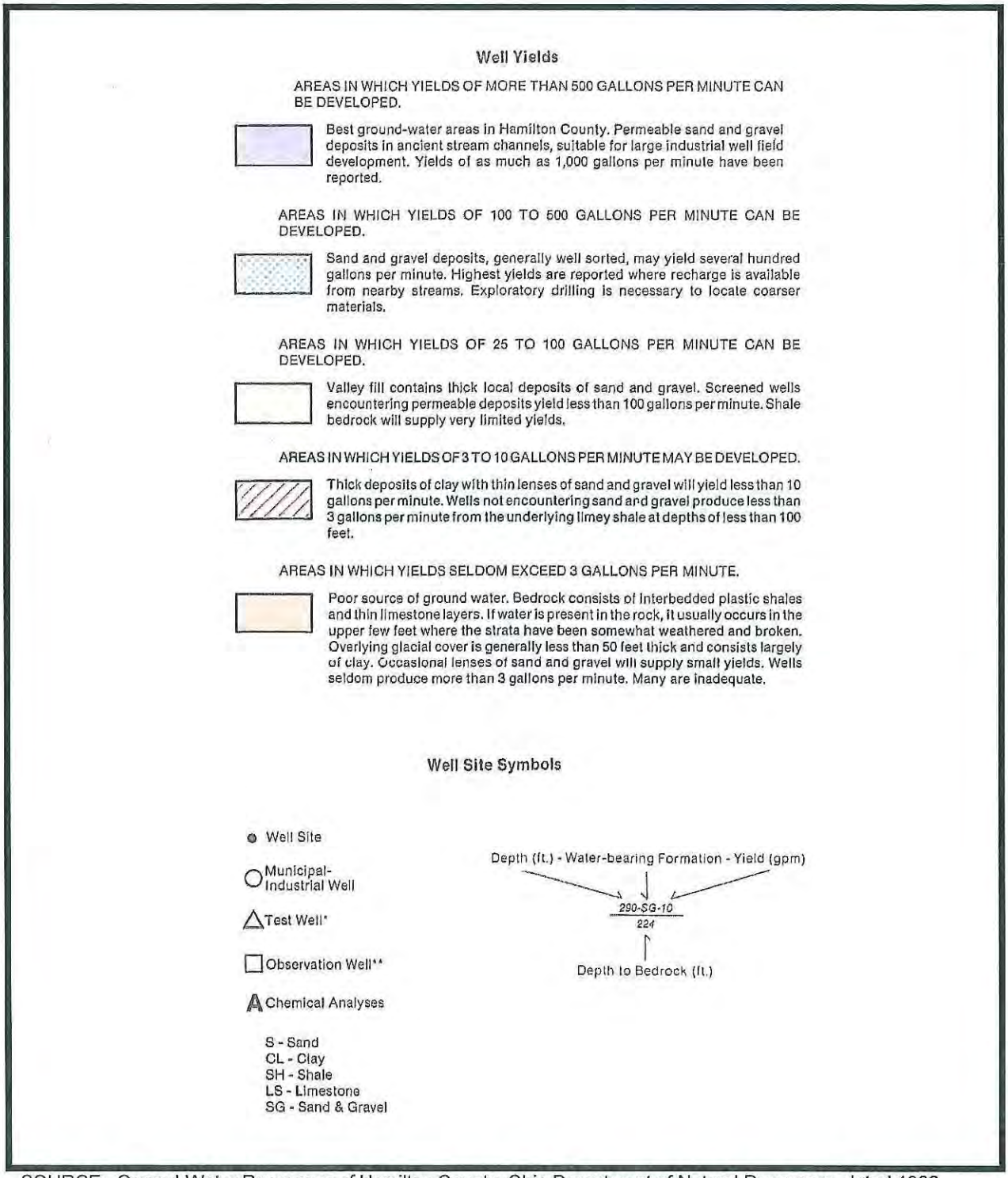
GROUNDWATER RESOURCE MAP
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9-22-10	WAN	WAN

SCALE: 1 in. ~ 3400 ft.

FIGURE: 4-A

ATC



SOURCE: Ground-Water Resources of Hamilton County, Ohio Department of Natural Resources, dated 1986.

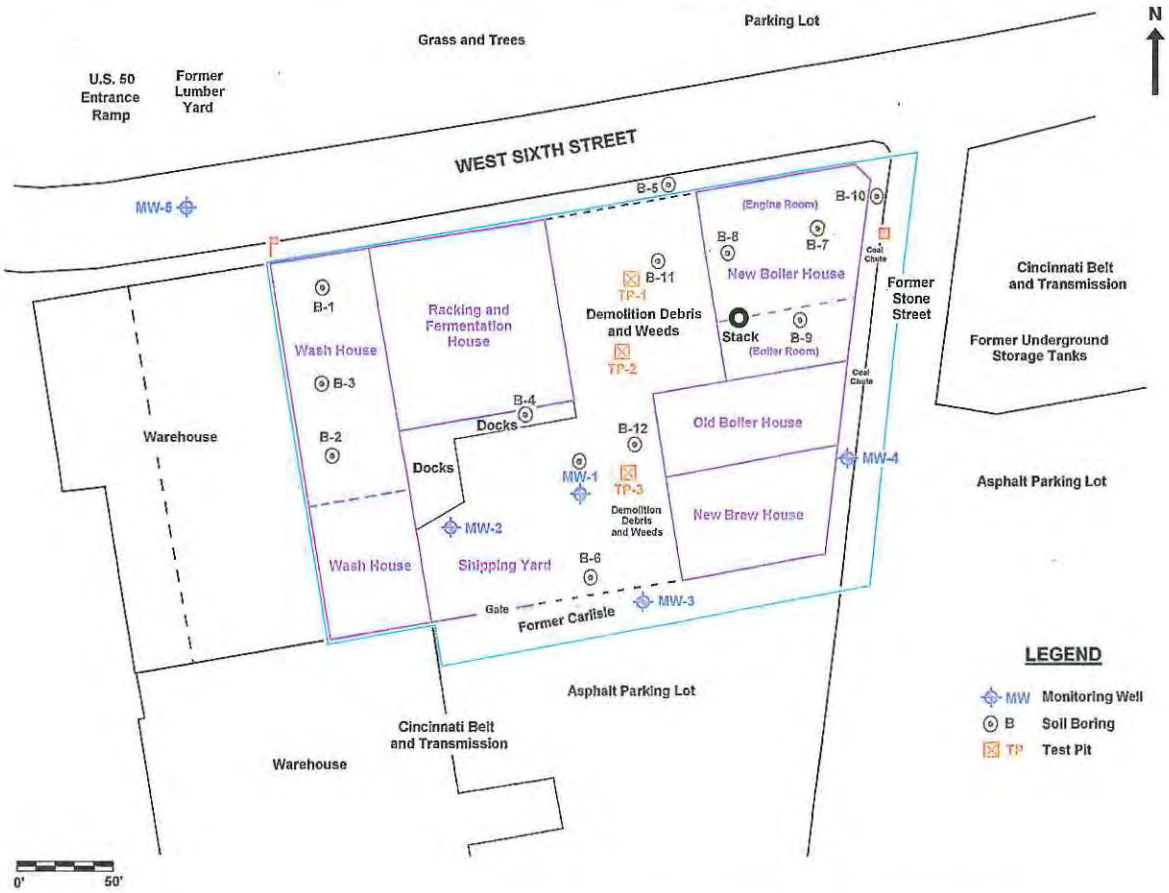
GROUNDWATER RESOURCE MAP LEGEND
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9-22-10	WAN	Wan

SCALE: N/A

FIGURE: 4-B

VATC



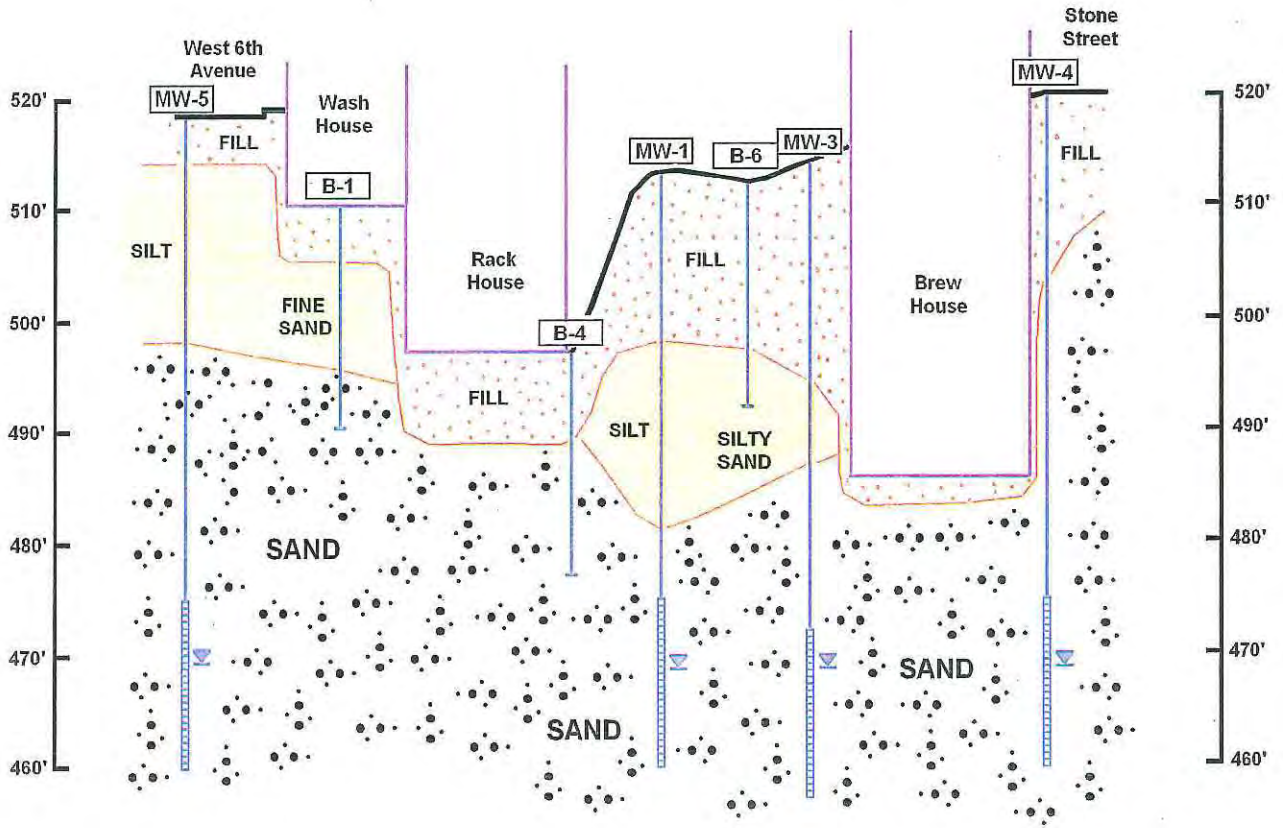
SOIL BORING, TEST PIT, AND MONITORING WELL LOCATION MAP
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9/22/10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

FIGURE: 5

ATC



Vertical exaggeration = 6.5 times

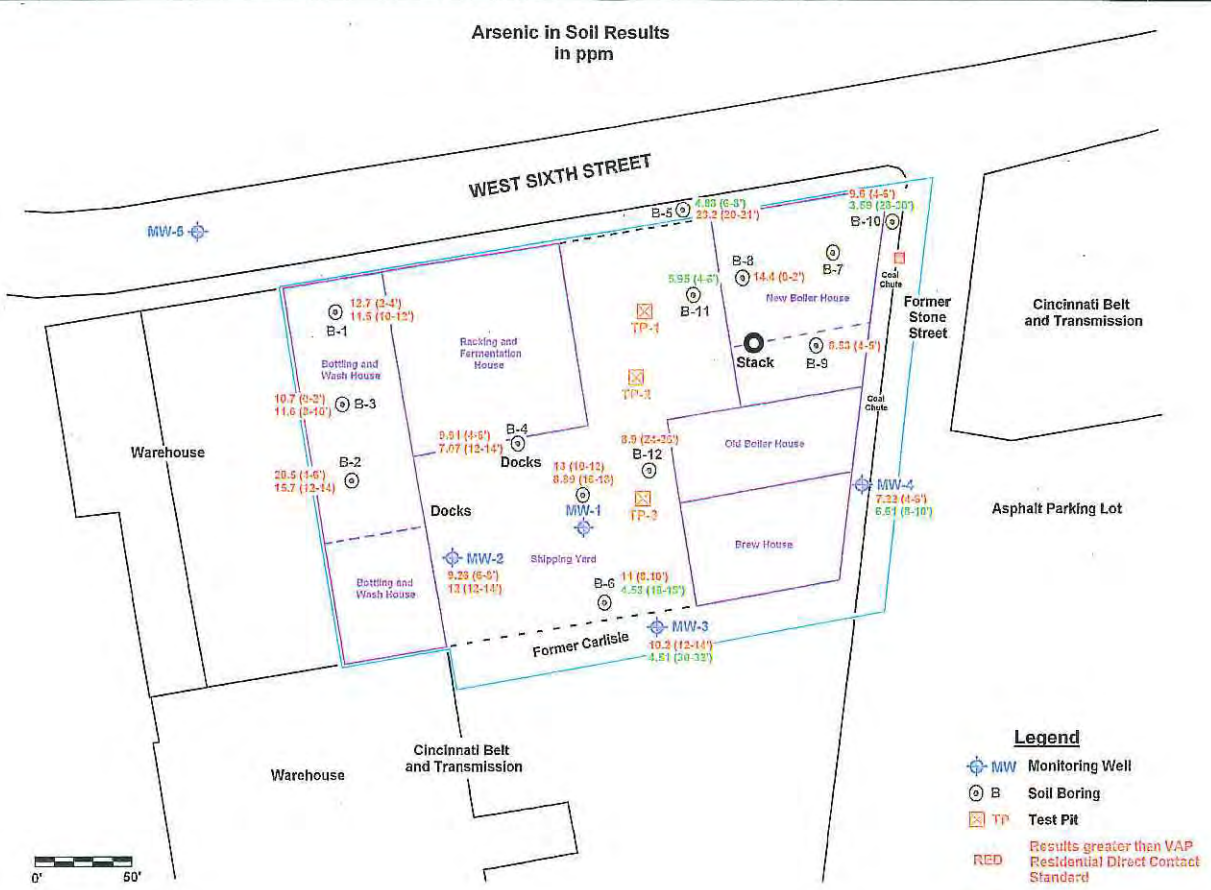
PROPERTY GEOLOGIC CROSS-SECTION
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	10/22/10	WAN	Wan

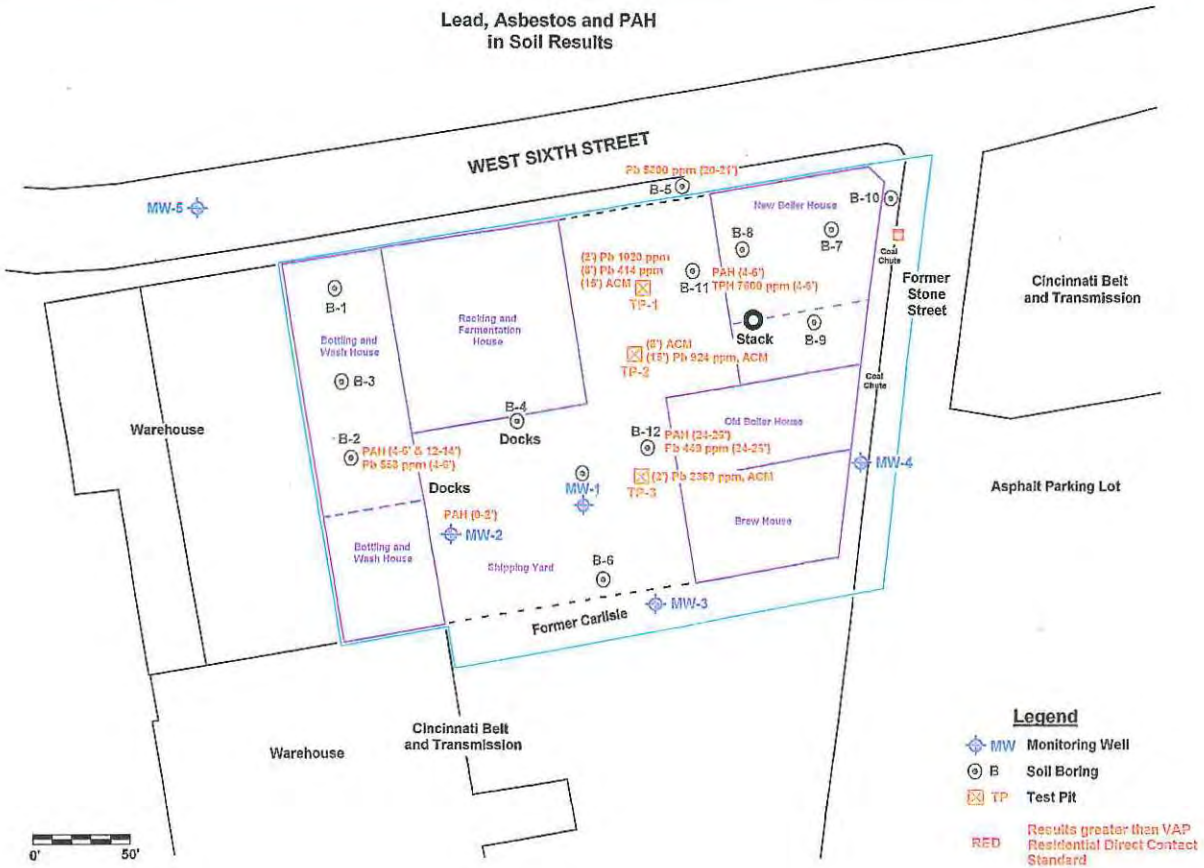
SCALE: 1 in. ~ 70 ft.

FIGURE: 6

ATC

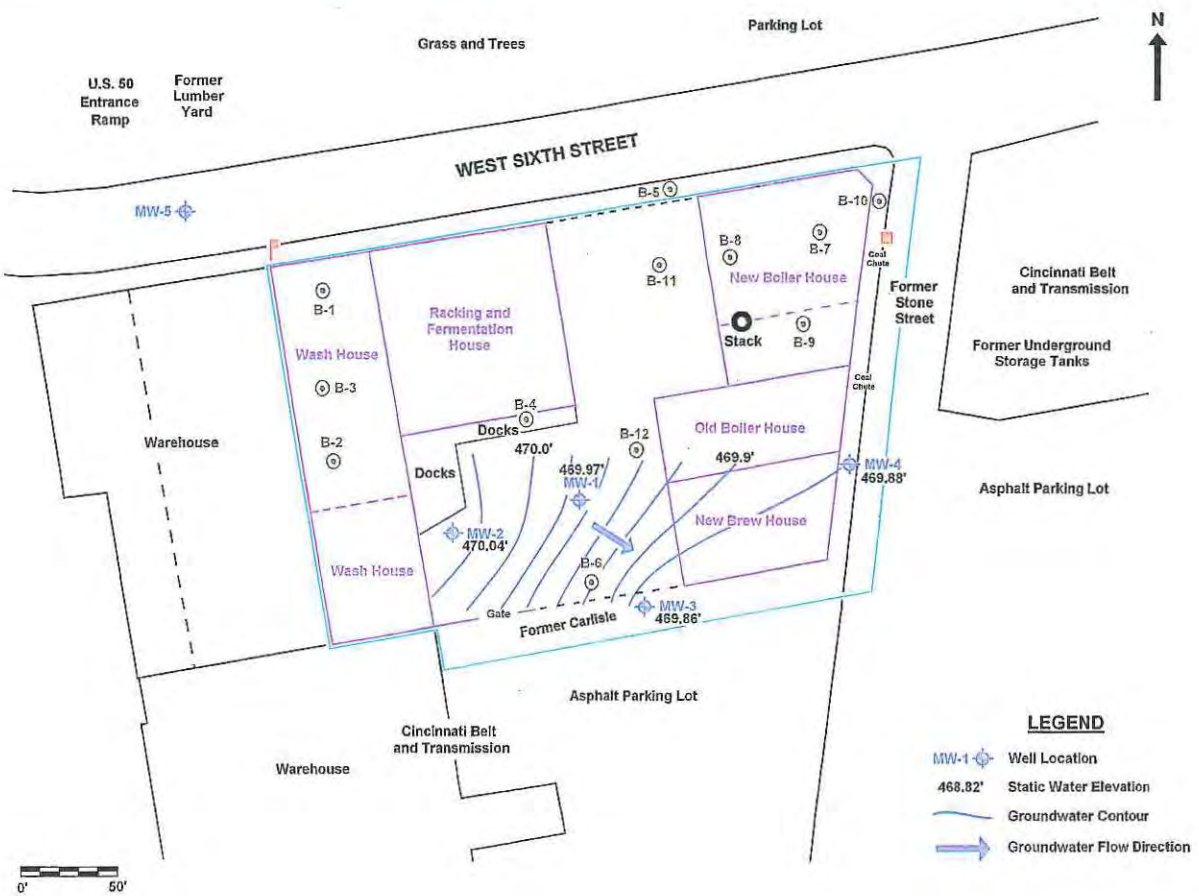


SOILS RESULTS MAP - ARSENIC VAP Phase II Property Assessment Former Hudepohl Brewery 801 West Sixth Street Cincinnati, Ohio	PROJECT NO. 72.05876.0884	DATE: 9/22/10	DRAWN BY: WAN	REVIEWED BY: WAN
	SCALE: 1 in. ~ 70 ft.			
	FIGURE: 7-A			



SOILS RESULTS MAP - PAH, TPH, Pb, ACM VAP Phase II Property Assessment Former Hudepohl Brewery 801 West Sixth Street Cincinnati, Ohio	PROJECT NO. 72.05876.0884	DATE: 9/22/10	DRAWN BY: WAN	REVIEWED BY: Wan
	SCALE: 1 in. ~ 70 ft.			
	FIGURE: 7-B			

VATC



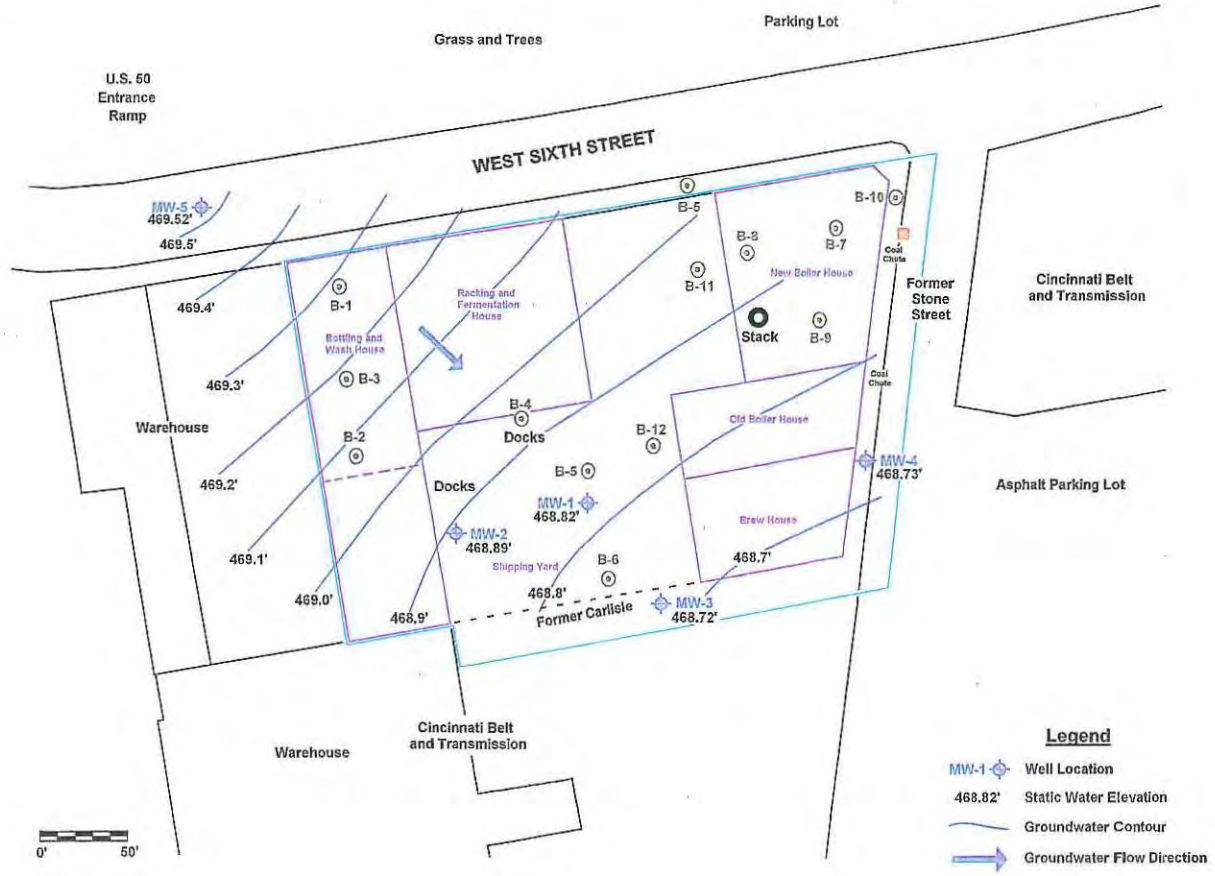
GROUNDWATER POTENTIOMETRIC SURFACE MAP (July 12, 2010)
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9/22/10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

FIGURE: 8-A

VATC



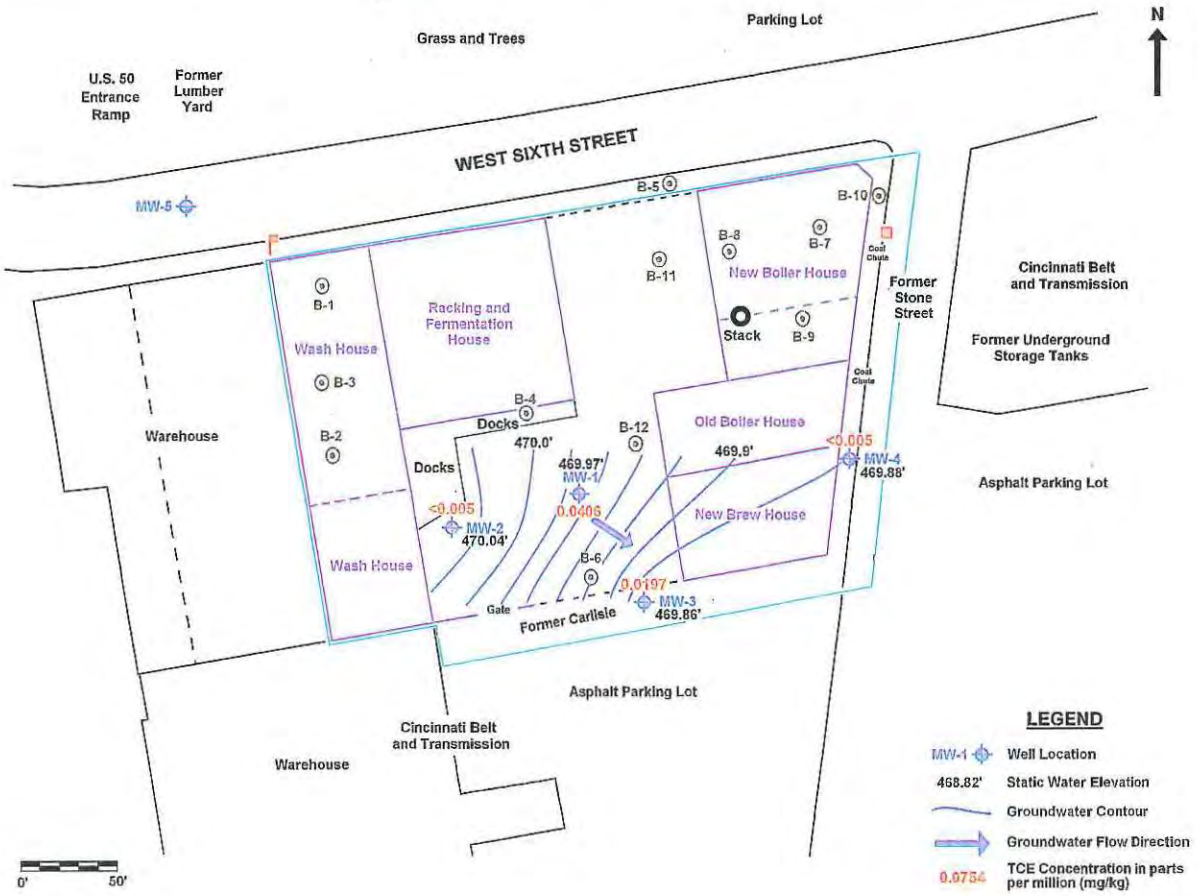
GROUNDWATER POTENTIOMETRIC SURFACE MAP (October 5, 2010)
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9/22/10	WAN	WAN

SCALE: 1 in. ~ 70 ft.

FIGURE: 8-B

ATC



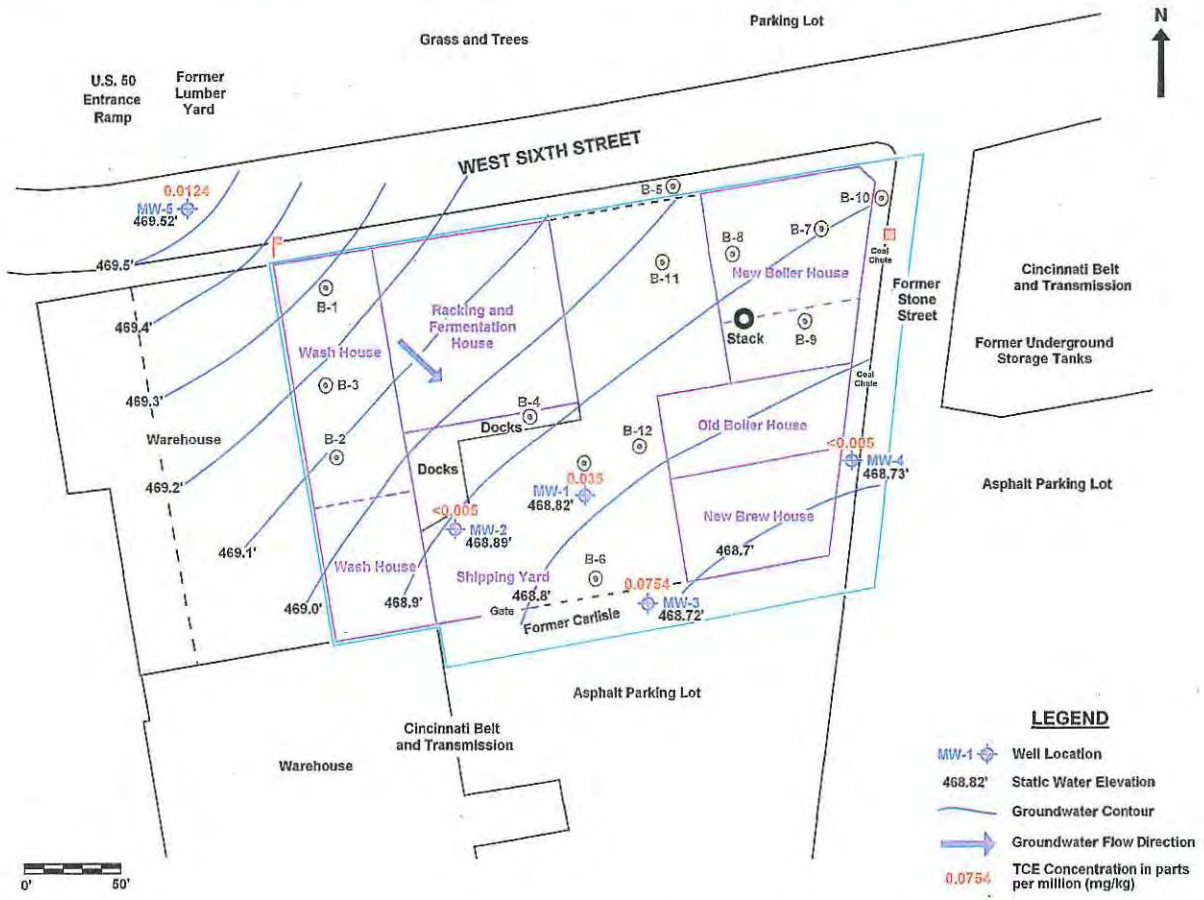
GROUNDWATER TCE RESULTS MAP
(July 12, 2010)
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9/22/10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

FIGURE: 9-A

ATC



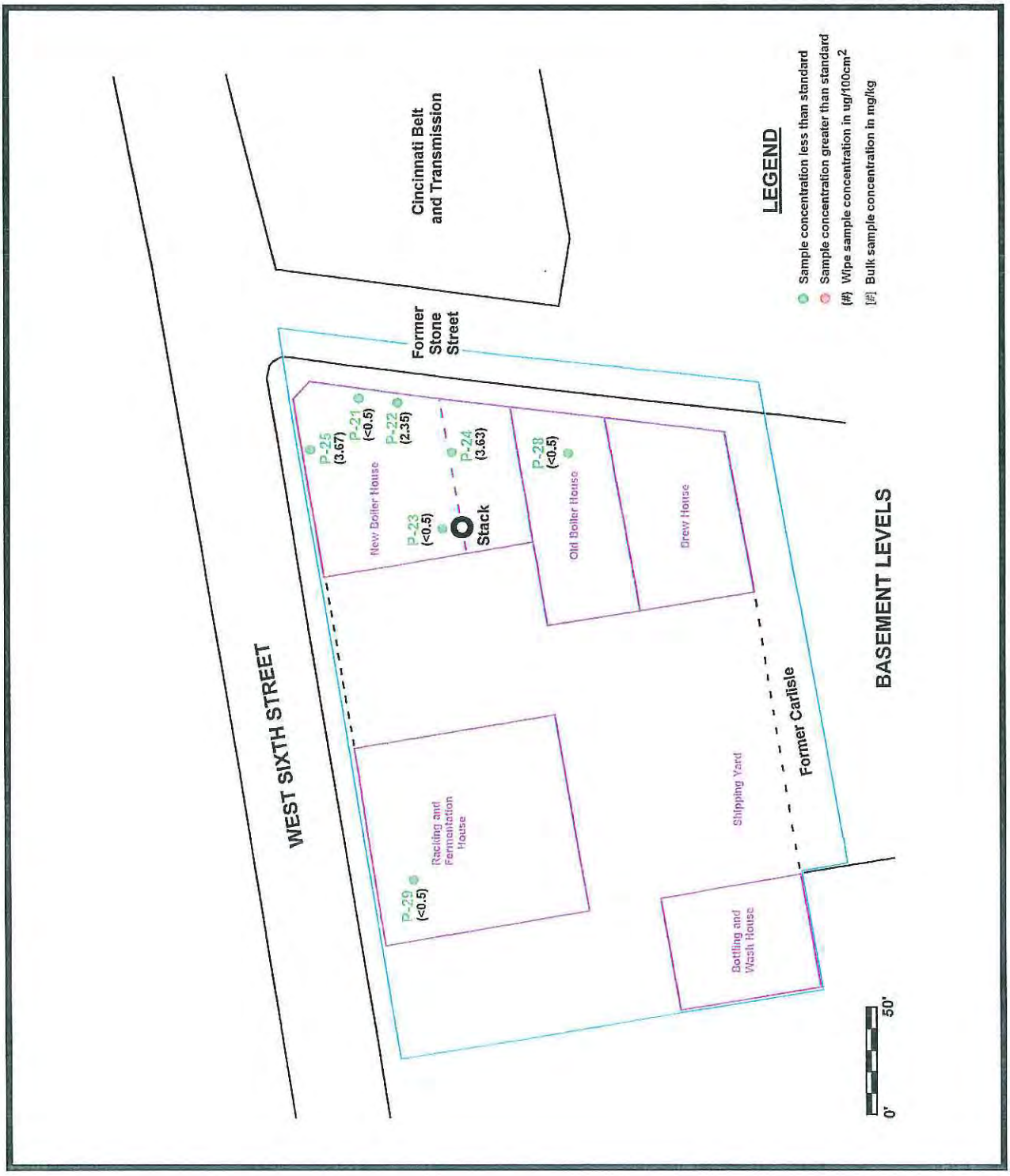
GROUNDWATER TCE RESULTS MAP
(October 5, 2010)
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9/22/10	WAN	Wan

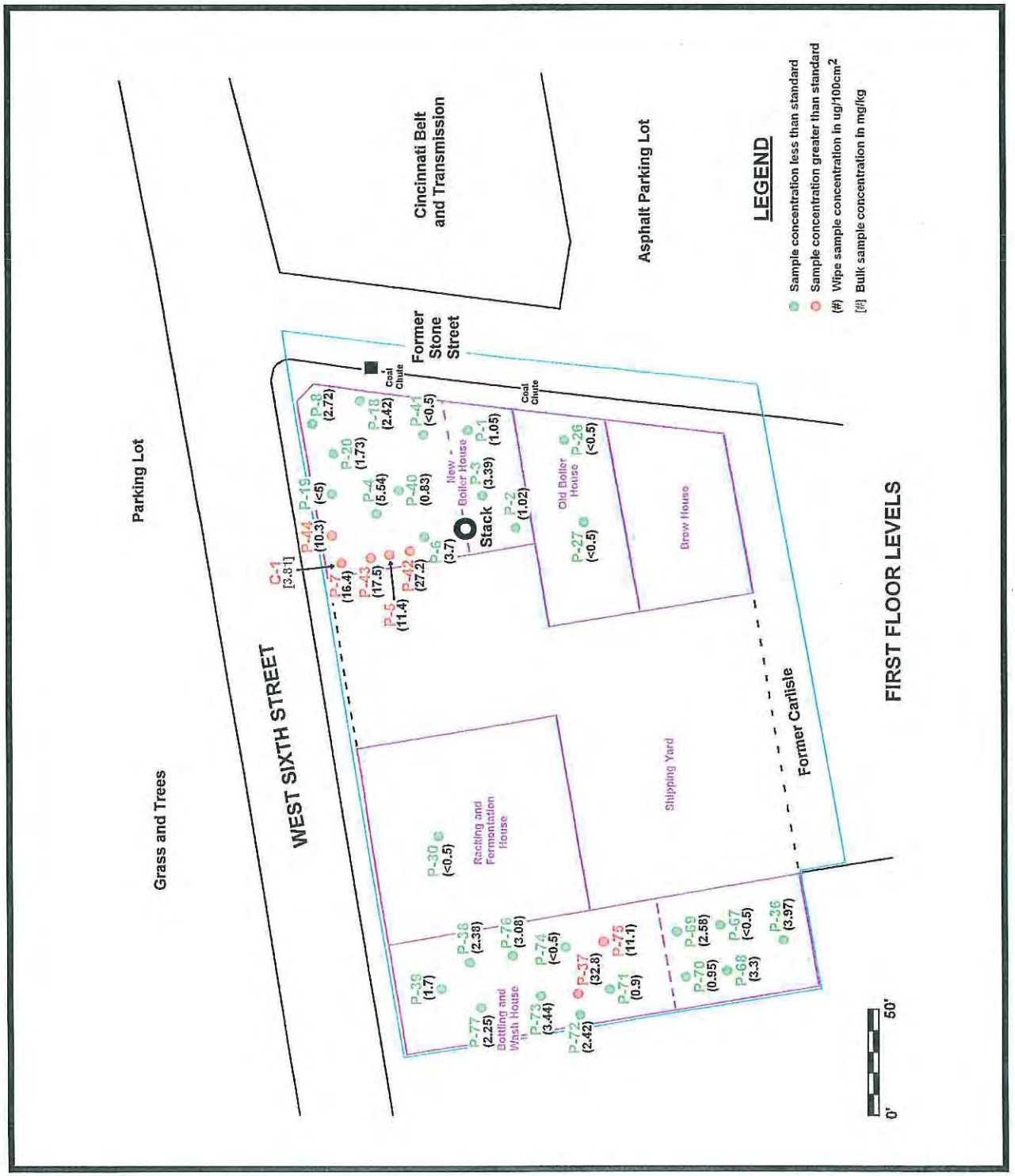
SCALE: 1 in. ~ 70 ft.

FIGURE: 9-B

VATC



PCB WIPE/BULK MATERIAL RESULTS SUMMARY MAP - BASEMENT LEVELS VAP Phase II Property Assessment Former Hudepohl Brewery 801 West Sixth Street Cincinnati, Ohio	**PROJECT NO.** 72.05876.0884	**DATE:** 10-22-10	**DRAWN BY:** WAN	**REVIEWED BY:** Wan
	SCALE: 1 in. ~ 70 ft.			
	FIGURE: **10-A**			



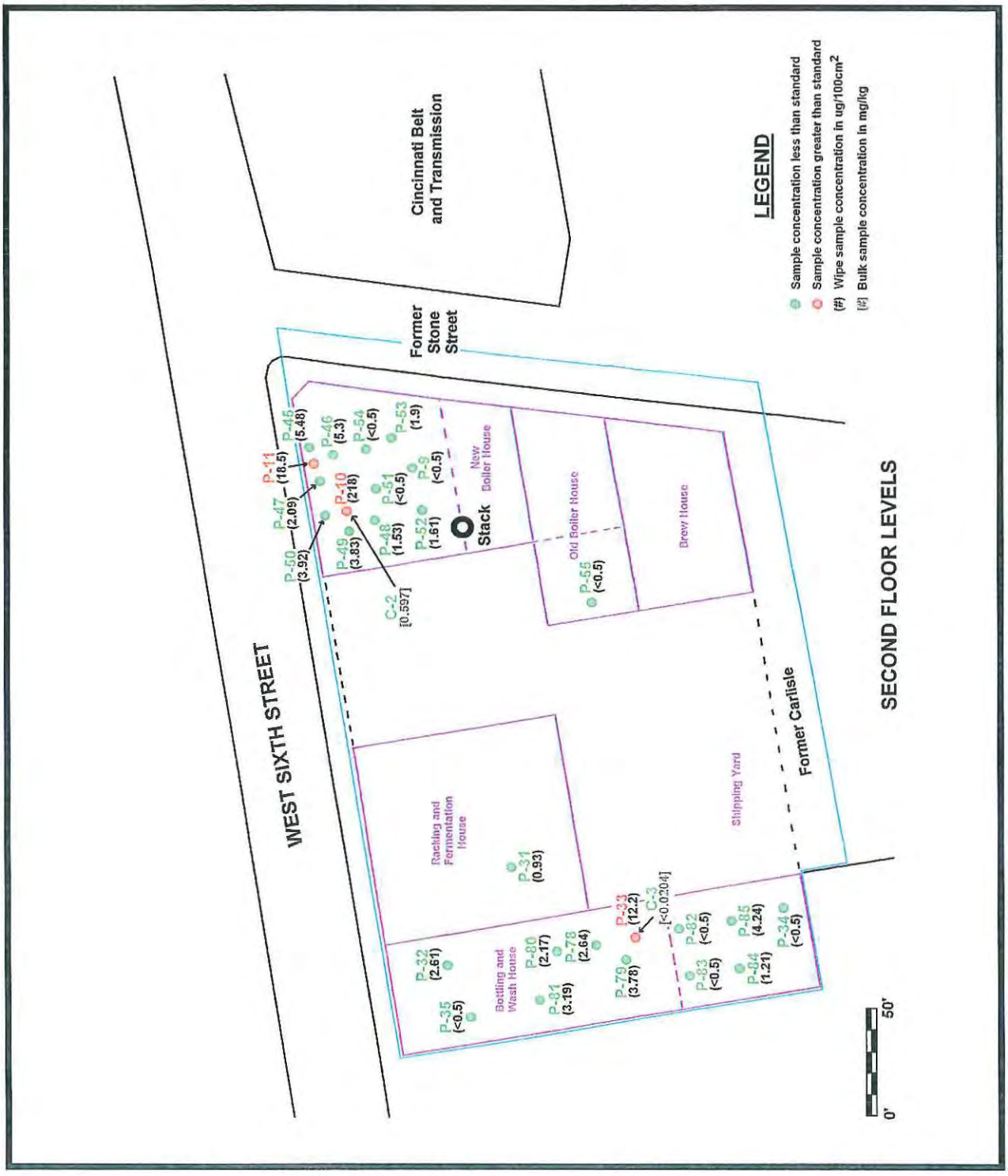
PCB WIPE/BULK MATERIAL RESULTS SUMMARY MAP - FIRST FLOOR LEVELS
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	10-22-10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

FIGURE: 10-B

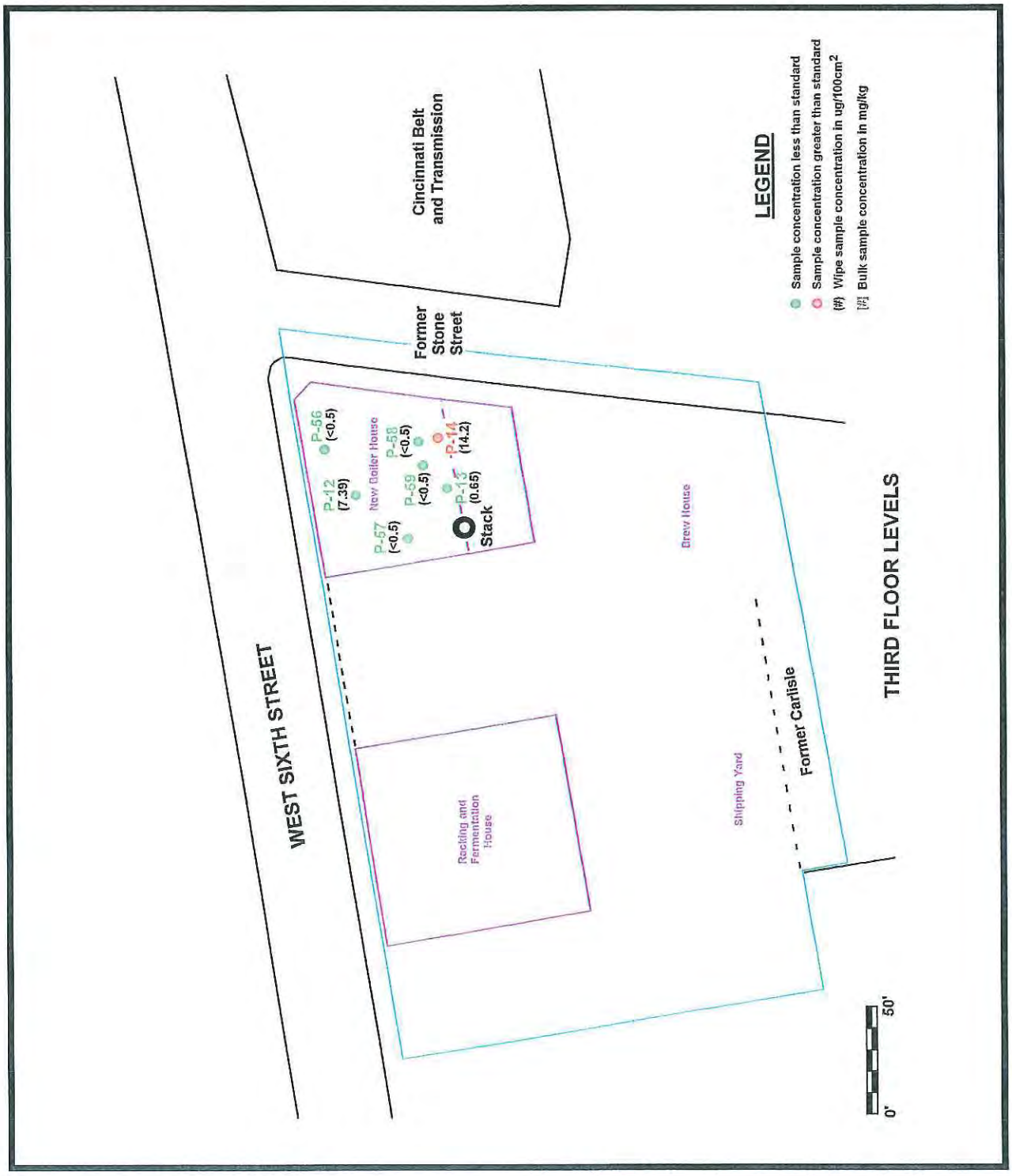
ATC



PCB WIPE/BULK MATERIAL RESULTS SUMMARY MAP - SECOND FLOOR LEVELS
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	10-22-10	WAN	Wan
SCALE: 1 in. ~ 70 ft.			
FIGURE: 10-C			

ATC



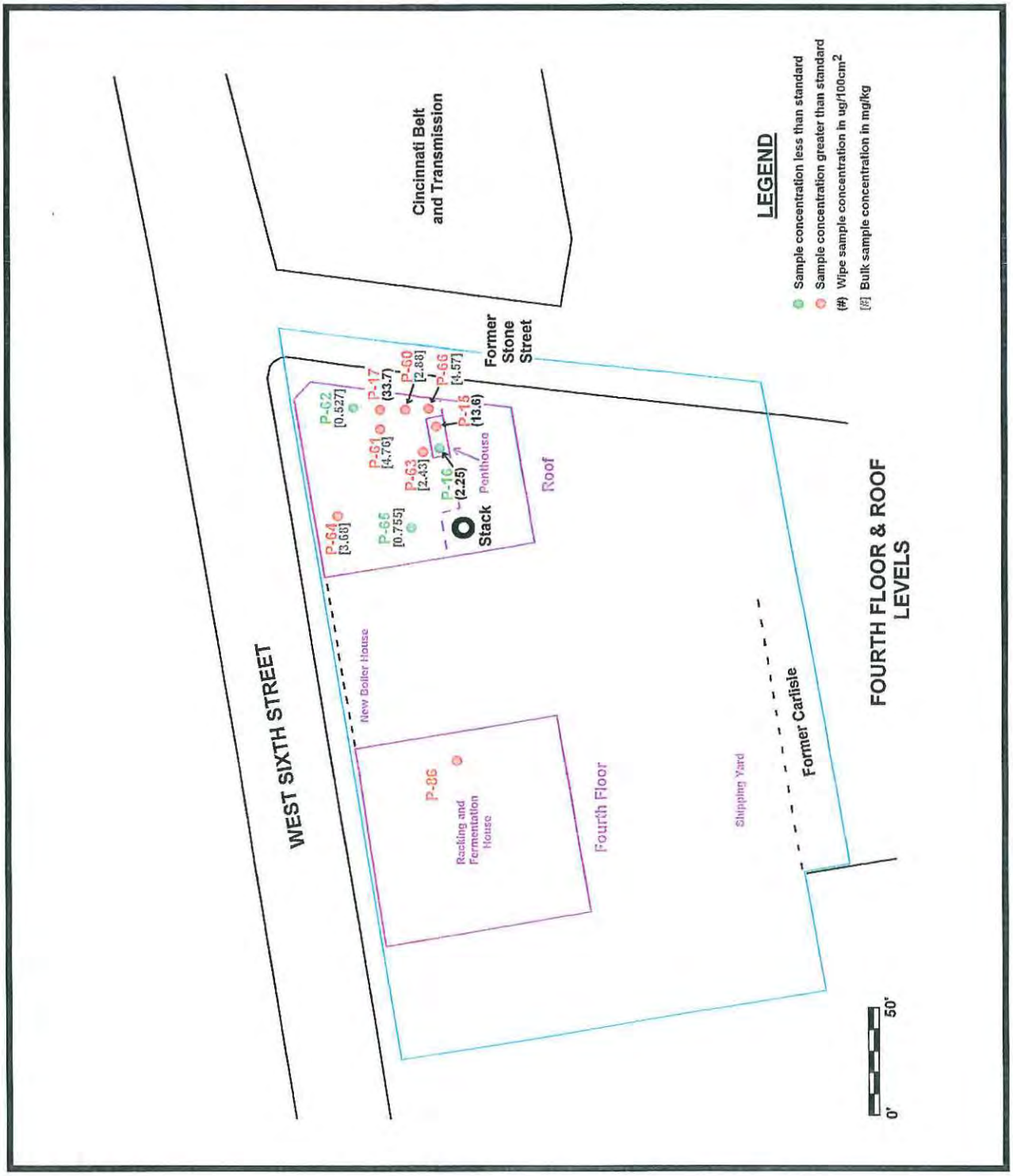
PCB WIPE/BULK MATERIAL RESULTS SUMMARY MAP - THIRD FLOOR LEVELS
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	10-22-10	WAN	Wan

SCALE: 1 in. ~ 70 ft.

FIGURE: **10-D**

ATC



PCB WIPE/BULK MATERIAL RESULTS SUMMARY MAP - UPPER LEVELS
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	10-22-10	WAN	WAN

SCALE: 1 in. ~ 70 ft.

FIGURE: 10-E

VATC

TABLES

TABLE 1 - Groundwater Elevation Data
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
(all measurements are in feet)

Well ID	Top of Casing Elevation	Date of Measurement	Depth to Water	Static Water Elevation
MW-1	512.26	7/12/2010	42.29	469.97
		8/26/2010	42.97	469.29
		9/2/2010	43.04	469.22
		10/5/2010	43.44	468.82
MW-2	510.24	7/12/2010	40.20	470.04
		8/26/2010	40.83	469.41
		9/2/2010	40.97	469.27
		10/5/2010	41.35	468.89
MW-3	513.22	7/12/2010	43.36	469.86
		8/26/2010	44.01	469.21
		9/2/2010	44.13	469.09
		10/5/2010	44.50	468.72
MW-4	519.85	7/12/2010	49.97	469.88
		8/26/2010	50.62	469.23
		9/2/2010	50.74	469.11
		10/5/2010	51.12	468.73
MW-5	517.24	9/24/2010	47.58	469.66
		10/5/2010	47.72	469.52

Benchmark - Top of sewer manhole lid on Stone Chapel Ln (516.30')

TABLE 2 - Soil Analytical Results Summary
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

	Boring ID	B-1		B-2		B-3		B-4A			B-5			B-6		B-8	B-9	B-10		Ohio VAP Generic Direct Contact Soil Standards (single chemical)		
	Depth (ft)	2-4	10-12	4-6	12-14	0-2	8-10	0-2	4-6	12-14	6-8	20-21	24-25	8-10	16-18	0-2	4-5	4-6	28-30			
	Location	Bottling and Wash House						Docks			Sixth Street			Shipping Yard		New Boiler House		Stone Street				
	Date Collected	07/07/10	07/07/10	07/07/10	07/07/10	07/07/10	07/07/10	07/08/10	07/08/10	07/08/10	07/06/10	07/06/10	07/06/10	07/07/10	07/07/10	07/08/10	07/08/10	07/08/10	07/08/10			
	Type of Material	clay fill	native sand	variable fill	clay fill	variable fill	native sand	sand fill	clay fill	native sand	sand fill	variable fill	cinder fill	clay fill	native sand	sand fill	sand fill	variable fill	native sand	Residential Scenario	Construction-Excavaton Scenario	Commercial-Industrial Scenario
	PID Reading	1.8	1.1	1.2	1.3	1.4	1.2	1.2	0.5	0.6	0.9	--	--	0	0	0.2	0.5	--	0			
VOCs	Acetone	BDL	BDL	0.0561	BDL	BDL	BDL	BDL		BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	64,000	100,000	100,000
VOCs	Methylene chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL		BDL	BDL	BDL	0.0103 [B]	BDL	BDL	BDL	250	1500	570
VOCs	All other VOCs	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL			
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	<0.117	<0.12	<1.07	0.182	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	3,500	440,000	56,000
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthylene	<0.117	<0.12	<1.07	<0.127	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102			
Polynuclear Aromatic Hydrocarbons (PAHs)	Anthracene	<0.117	<0.12	<1.07	0.334	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	18,000	1,000,000	280,000
Polynuclear Aromatic Hydrocarbons (PAHs)	Benzo(a)anthracene	<0.117	<0.12	<1.07	1.1	<0.118	<0.119		0.394	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	11	660	76
Polynuclear Aromatic Hydrocarbons (PAHs)	Benzo(b)flouranthene	<0.117	<0.12	<1.07	0.811	<0.118	<0.119		0.276	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	11	690	77
Polynuclear Aromatic Hydrocarbons (PAHs)	Benzo(k)fluoranthene	<0.117	<0.12	<1.07	0.765	<0.118	<0.119		0.35	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	110	6,900	770
Polynuclear Aromatic Hydrocarbons (PAHs)	Benzo(g,h,i)perylene	<0.117	<0.12	<1.07	0.581	<0.118	<0.119		0.283	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102			
Polynuclear Aromatic Hydrocarbons (PAHs)	Benzo(a)pyrene	<0.117	<0.12	<1.07	1.02	<0.118	<0.119		0.35	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	1.1	69	7.7
Polynuclear Aromatic Hydrocarbons (PAHs)	Chrysene	<0.117	<0.12	<1.07	1.15	<0.118	<0.119		0.358	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	1,100	69,000	7,600
Polynuclear Aromatic Hydrocarbons (PAHs)	Dibenz(a,h)anthracene	<0.117	<0.12	<1.07	0.293	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	1.1	69	7.7
Polynuclear Aromatic Hydrocarbons (PAHs)	Fluoranthene	<0.117	<0.12	<1.07	2.96	<0.118	<0.119		0.965	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	2,400	290,000	37,000
Polynuclear Aromatic Hydrocarbons (PAHs)	Fluorene	<0.117	<0.12	<1.07	0.153	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	2,400	290,000	37,000
Polynuclear Aromatic Hydrocarbons (PAHs)	Indeno(1,2,3-cd)pyrene	<0.117	<0.12	<1.07	0.628	<0.118	<0.119		0.278	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	11	690	77
Polynuclear Aromatic Hydrocarbons (PAHs)	Naphthalene	<0.117	<0.12	<1.07	0.2025	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	69	84	150
Polynuclear Aromatic Hydrocarbons (PAHs)	2-Methylnaphthalene	<0.117	<0.12	<1.07	<0.127	<0.118	<0.119		<0.113	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102			
Polynuclear Aromatic Hydrocarbons (PAHs)	Phenanthrene	<0.117	<0.12	<1.07	2.68	<0.118	<0.119		0.792	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	0.123	<0.102			
Polynuclear Aromatic Hydrocarbons (PAHs)	Pyrene	<0.117	<0.12	<1.07	1.81	<0.118	<0.119		0.701	<0.106	<0.105		<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	1,800	220,000	28,000
TPH*	C_6-C_{12}	<5.85	<5.8	<5.34	<6.36	<5.79	<5.76	<5.7		<5.33	<5.25		<5.44	<5.78	<5.31	<5.65	<5.35	<5.35	<5.07	1,000*		
TPH*	C_{10}-C_{20}	<11.6	<12	221	137	<11.7	<12		<11.2	<10.7	<10.5		<11	<11.5	<10.5	<11.5	<10.8	22.1	<10.1	2,000*		
TPH*	C_{20}-C_{34}	<578	<598	687	826	<584	<599		<562	<533	<526		<548	<575	<523	<575	<540	<545	<507	5,000*		
RCRA Metals	Silver	<1.01	<1.08	<1.06	<1.24	<1.11	<1.03		<1.23	<0.991	<0.863	<1.2		<1.12	<0.822	<1.09	<1.17	<1.07	<1	380	9,700	15,000
RCRA Metals	Arsenic	12.7	11.5	20.5	15.7	10.7	11.6		9.91	7.07	4.88	23.2		11	4.63	14.4	8.53	9.6	3.59	6.7	420	82
RCRA Metals	Barium	106	60.1	150	116	148	73.3		48.3	25.3	19.7	1310		64.3	16.4	57.6	59.8	71.6	20.5	15,000	120,000	370,000
RCRA Metals	Cadmium	0.708	0.686	4.38	0.782	0.585	0.705		0.541	0.35	0.244	2.4		0.614	0.321	0.721	0.544	0.731	0.195	72	1,600	2,300
RCRA Metals	Chromium	15.6	12	17.7	20.5	16.6	13.2		11.1	5.62	5.64	23.4		13.7	7.07	13.9	12.2	11.2	4.1	230	13,000	7,900
RCRA Metals	Lead	15.3	11.7	558	285	116	12.5		13.3	6.43	4.71	5800		19.9	3.99	23.2	13.2	93.4	2.87	400	750	1800
RCRA Metals	Selenium	<5.05	<5.4	<5.28	<6.18	<5.57	<5.17		<6.16	<4.96	<4.26	<5.98		<5.6	<4.11	<5.44	<5.87	<5.35	<5.02	380	9,700	15,000
RCRA Metals	Mercury	<0.113	<0.115	0.709	2.82	<0.122	<0.113		<0.121	<0.1	<0.106	4.44		<0.119	<0.114	<0.113	0.125	<0.115	<0.931	7.6	190	290
Polychlorinated Biphenyls (PCBs)		<0.0234	<0.0241	<0.0214	<0.0255	<0.0236	<0.0239		<0.0226	<0.0214	<0.0211	<0.0277		<0.0231	<0.0211	<0.023	<0.0214	<0.0216	<0.0205	1.2	18	18

Results in mg/kg
* Class 1 soils (sands and gravels)
BDL - Below detection limits
TPH - total petroleum hydrocarbons
VOCs - volatile organic compounds

A - The presence of other PAHs and/or TPH in same sample suggests that the analyte could be present at a concentration above the action level.
B - Analyte also found in the associated blank. Analyte is likely a laboratory artifact.

TABLE 2 - Soil Analytical Results Summary
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

	Boring ID	B-11	B-12		MW-1			MW-2				MW-3				MW-4			Ohio VAP Generic Direct Contact Soil Standards (single chemical)		
	Depth (ft)	4-6	16-18	24-26	8-10	10-12	16-18	0-2	6-8	10-12	12-14	10-12	12-14	28-30	30-32	4-6	8-10	12-14			
	Location	Demolished Buildings			Shipping Yard							Former Carlisle Street				Stone Street					
	Date Collected	07/08/10	07/08/10	07/08/10	07/07/10	07/07/10	07/07/10	07/06/10	07/08/10	07/06/10	07/06/10	07/06/10	07/06/10	07/06/10	07/06/10	07/06/10	07/06/10	07/06/10			
	Type of Material	clay fill	variable fill	variable fill	clay fill	clay fill	native silt	S&G fill	silt fill	silt fill	silt	clay fill	clay fill	native sand	native sand	sand fill	sand fill	sand fill	Residential Scenario	Construction-Excavaton Scenario	Commercial-Industrial Scenario
	PID Reading	0.5	0.3	--	0	0	0	4.8	0	0	0	2.3	2.1	1.4	--	1.2	--	0.3			
VOCs	Acetone	BDL	BDL		BDL		BDL	BDL		BDL		BDL		BDL		BDL	BDL		64,000	100,000	100,000
	Methylene chloride	BDL	0.00793 [B]		BDL		BDL	BDL		BDL		BDL		BDL		BDL	BDL		250	1500	570
	All other VOCs	BDL	BDL		BDL		BDL	BDL		BDL		BDL		BDL		BDL	BDL				
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	<5.62		<5.51	<0.118		<0.116	3.2		<0.11		<0.119		<0.105		<0.112		<0.105	3,500	440,000	56,000
	Acenaphthylene	<5.62		<5.51	<0.118		<0.116	<1.12		<0.11		<0.119		<0.105		<0.112		<0.105			
	Anthracene	13.7		<5.51	<0.118		<0.116	5.79		<0.11		<0.119		<0.105		<0.112		<0.105	18,000	1,000,000	280,000
	Benzo(a)anthracene	25.7		<5.51	<0.118		<0.116	7.61		<0.11		<0.119		<0.105		<0.112		<0.105	11	680	76
	Benzo(b)flouranthene	16		<5.51	<0.118		<0.116	5.26		<0.11		<0.119		<0.105		<0.112		<0.105	11	690	77
	Benzo(k)fluoranthene	19		<5.51	<0.118		<0.116	5.62		<0.11		<0.119		<0.105		<0.112		<0.105	110	6,900	770
	Benzo(g,h,i)perylene	17.4		<5.51	<0.118		<0.116	7.22		<0.11		<0.119		<0.105		<0.112		<0.105			
	Benzo(a)pyrene	24.6		<5.51 [A]	<0.118		<0.116	7.36		<0.11		<0.119		<0.105		<0.112		<0.105	1.1	69	7.7
	Chrysene	25.7		<5.51	<0.118		<0.116	7.61		<0.11		<0.119		<0.105		<0.112		<0.105	1,100	69,000	7,600
	Dibenz(a,h)anthracene	<5.62 [A]		<5.51 [A]	<0.118		<0.116	<1.12 [A]		<0.11		<0.119		<0.105		<0.112		<0.105	1.1	69	7.7
	Fluoranthene	60		11.1	<0.118		<0.116	19.3		<0.11		<0.119		<0.105		<0.112		<0.105	2,400	290,000	37,000
	Fluorene	5.83		<5.51	<0.118		<0.116	2.11		0.146		<0.119		<0.105		<0.112		<0.105	2,400	290,000	37,000
	Indeno(1,2,3-cd)pyrene	15.4		<5.51	<0.118		<0.116	6.44		<0.11		<0.119		<0.105		<0.112		<0.105	11	690	77
	Naphthalene	<5.62		<5.51	<0.118		<0.116	1.54		<0.11		<0.119		<0.105		<0.112		<0.105	69	84	150
	2-Methylnaphthalene	<5.62		<5.51	<0.118		<0.116	<1.12		<0.11		<0.119		<0.105		<0.112		<0.105			
	Phenanthrene	42.4		8.16	<0.118		<0.116	18.9		0.213		<0.119		<0.105		<0.112		<0.105			
	Pyrene	43.2		9.15	<0.118		<0.116	16.8		0.173		<0.119		<0.105		<0.112		<0.105	1,800	220,000	28,000
TPH*	C_6-C_{12}	<5.57	<5.63		<5.93		<5.78	<5.57		<5.23		<6.05		<5.18		<5.52	<5.23		1,000*		
	C_{10}-C_{20}	844		34	<11.8		<11.5	<11.2		<11		<12		<10.4		<11.2		<10.7	2,000*		
	C_{20}-C_{34}	7600		581	<588		<574	<561		<550		<598		<522		<562		<533	5,000*		
RCRA Metals	Silver	<0.113		<1.04		<1.12	<1.06		<1.15		<1.19		<1.03		<0.774	<0.918	<0.817		380	9,700	15,000
	Arsenic	5.95		8.9		13	8.89		9.26		12		10.2		4.51	7.22	6.81		6.7	420	82
	Barium	310		125		73	63.7		59.7		74.7		55.3		26.6	16.1	17.2		15,000	120,000	370,000
	Cadmium	3.57		0.752		0.58	0.471		0.478		0.667		0.6		0.275	0.341	0.292		72	1,600	2,300
	Chromium	30.6		21.9		12.7	11.5		11.2		17.3		14.6		3.51	4.87	7.61		230	13,000	7,900
	Lead	315		449		21.8	10.9		39.6		14.3		16.7		4.68	6.83	6.07		400	750	1800
	Selenium	<5.63		<5.2		<5.61	<5.3		<5.77		<5.96		<5.16		<3.87	<4.59	<4.08		380	9,700	15,000
	Mercury	0.469		0.165		<0.117	<0.113		<0.128		<0.113		<0.123		<0.111	<0.116	<0.101		7.6	190	290
Polychlorinated Biphenyls (PCBs)		0.376		0.0501		<0.0237	<0.0233		<0.0232		<0.0234	<0.0242			<0.0205	<0.0226	<0.0214		1.2	18	18

Results in mg/kg
* Class 1 soils (sands and gravels)
BDL - Below detection limits
TPH - total petroleum hydrocarbons
VOCs - volatile organic compounds

A - The presence of other PAHs and/or TPH in same sample suggests that the analyte could be present at a concentration above the action level.

TABLE 3 - Test Pit Sample Analytical Results Summary
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

Test Pit	Depth	Date	Type of Material	Lead Concentration (mg/kg)	Asbestos Present
TP-1	Shallow (2')	6/24/2010	Dark brown silty very sandy clay with brick	**1030**	ND
	Mid (8')		Dark brown silty sandy clay with brick	**414**	ND
	Deep (15')		Dark brown silty sandy clay with brick, tile, concrete, and wood	282	Chrysoltile
TP-2	Shallow (2')	6/24/2010	Brown silty sandy clay with brick	317	ND
	Mid (8')		Brown clay, trace brick	153	Chrysoltile
	Btm (15')		Brown silty sandy clay with brick	**924**	Amosite
TP-3	Shallow (2')	6/24/2010	Dark brown silty very sandy clay with brick	**2360**	Chrysoltile/ Amosite
	Mid (8')		Brown silty sandy clay	38.9	ND
	Btm (15')		Brown silty sandy clay	33.6	ND
Ohio VAP Generic Direct Contact Soil Standard: Residential				400	

ND = None Detected

TABLE 4 - Groundwater Analytical Results Summary
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio
Results in mg/kg

Well Number	Date Collected	Volatile Organic Compounds (VOCs)		All PAHs
		Trichloroethene	All other VOCs	
MW-1	July 12, 2010	**0.0406**	BDL	BDL
	October 5, 2010	**0.035**	BDL	
MW-2	July 12, 2010	<0.005	BDL	BDL
	October 5, 2010	<0.005	BDL	
MW-3	July 12, 2010	**0.0197**	BDL	BDL
	October 5, 2010	**0.0754**	BDL	
MW-4	July 12, 2010	<0.005	BDL	BDL
	October 5, 2010	<0.005	BDL	
MW-5	October 5, 2010	**0.0124**	BDL	
Ohio VAP Generic Unrestricted Potable Use Standards		0.005		

BDL - Below detection limits
PAHs - Polynuclear Aromatic Hydrocarbons

TABLE 5 - PCB Wipe and Bulk Sample Analytical Results
Former Hudepohl Brewery
801 West 8th Stret
Cincinnati, Ohio
Results in µg/100 cm^2 except where shown.

NEW BOILER HOUSE	
Sample ID	Total PCBs
Roof	
P-15	**13.6**
P-16	2.25
P-17	**33.7**
P-60	**2.88 mg/kg**
P-61	**4.76 mg/kg**
P-62	0.527 mg/kg
P-63	**2.43 mg/kg**
P-64	**3.68 mg/kg**
P-65	0.755 mg/kg
P-66	**4.57 mg/kg**
3rd Floor	
P-12	7.39
P-13	0.65
P-14	**14.2 / <0.5**
P-56	<0.5
P-57	<0.5
P-58	<0.5
P-59	<0.5
2nd Floor	
P-9	<0.5
P-10 / C-2	**218**
	0.597 kg/kg
P-11	**18.5**
P-45	5.48
P-46	5.3
P-47	2.09
P-48	1.53 / 1.31
P-49	3.83
P-50	3.92
P-51	<0.5
P-52	1.61
P-53	1.9
P-54	<0.5
1st Floor - Boiler Room	
P-1	1.05
P-2	1.02
P-3	3.39

"C" samples = core samples

Bulk Action Level = 1 mg/kg
Wipe Action Level = 10 µg/100 cı

NEW BOILER HOUSE	
Sample ID	Total PCBs
1st Floor - Engine Room	
P-4	5.54
P-5	**11.4**
P-6	3.7
P-7 / C-1	**16.4**
	3.81 mg/kg
P-8	2.72
P-18	2.42
P-19	<5
P-20	1.73
P-40	0.83
P-41	<0.5
P-42	**27.2**
P-43	**17.5**
P-44	**10.3**
Basement	
P-21	<0.5
P-22	2.35
P-23	<0.5
P-24	3.63
P-25	3.67

OLD BOILER HOUSE	
Sample ID	Total PCBs
Mezzanine	
P-55	<0.5
1st Floor	
P-26	<0.5
P-27	<0.5
Basement	
P-28	<0.5

RACK HOUSE	
Sample ID	Total PCBs
4th Floor	
P-86	**10.1**
2nd Floor	
P-31	0.93
1st Floor	
P-30	<0.5
Basement	
P-29	<0.5

WASH HOUSE	
Sample ID	Total PCBs
2nd Floor	
P-32	2.61
P-33 / C-3	**12.2 /** 5.14
	<0.0204 mg/kg
P-34	<0.5
P-35	<0.5
P-78	2.64
P-79	3.78
P-80	2.17
P-81	3.19
P-82	<0.5
P-83	<0.5
P-84	1.21
P-85	4.24
1st Floor	
P-36	3.97
P-37	**32.8**
P-38	2.38
P-39	1.7
P-67	<0.5
P-68	3.3
P-69	2.58
P-70	0.95
P-71	<0.5 / 0.9
P-72	2.42
P-73	3.44
P-74	<0.5
P-75	**11.1**
P-76	3.08
P-77	2.25

Duplicates	
P-A	<0.5
P-B	1.31
P-C	0.9
P-D	5.14

Blanks	
Blank 1	<0.5
Bl-2	<0.5

TABLE 6 - PCBs in Caulk Sample Analytical Results
Former Hudepohl Brewery
801 West 8th Stret
Cincinnati, Ohio
Results in mg/kg

Sample ID	Building	Location	Material	PCB Content
NBE-01-02	New Boiler and Engine House	East Side	Window Caulk	each < 1.75
NBE-01-09			Window Caulk	each < 0.35
NBH-01-03	New Brew House	East Side	Window Glaze	each < 0.35
NBH-01-10			Window Caulk	each < 2.65
RF-01-01	Racking/Fermentation House	North Side	Window Glaze	each < 1.75
RF-01-06		Dock Office	Window Caulk	each < 2.34
RF-01-07		South Side, Second Floor	Window Caulk	each < 0.35
RF-01-08		South Side, Third Floor	Window Caulk	each < 0.436
BWH-01-04	Bottle Wash House	North Side	Window Glaze	each < 7
BWH-01-05			Window Glaze	**3.58** (Arochlor 1254)

ND = None detected

Action Level = 50 mg/kg

TABLE 7 - Hazardous Material and Chemical Container Inventory
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

New Boiler House					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
Basement	electric capacitors	2	< 5 gal.	potential PCBs	wall of smoke stack
	hydraulic oil reservoirs	9	~ 5 gal. each	non-PCB	ceilings throughout
	fluorescent light fixtures	10	2 bulb units	ceiling 14' high	ceilings throughout
	fluorescent light bulbs	16	4' tubes		ceilings throughout
1st	paint	220	1-gal.	misc. manufacturers	mostly near stack
	herbicide	1	1-gal.		
	chlorinated rubber	1	5-gal.		
	paint	25	5-gal.	misc. manufacturers	mostly near stack
	paint/flammable primer	15	5-gal.		north room
	used oil?	2	5-gal.	open topped buckets	northwest corner
	glycerol	1	5-gal.		
	car battery	1		lead-acid battery	south room
	fluorescent light fixtures	6	2 bulb units	ceiling 23' high	ceilings throughout
		5	2 bulb units		on floor
	fluorescent light bulbs	8	8' tubes		ceilings throughout
		2	4' tubes		
2nd	pipe compound	9	1-qt.	"RectorSeal" & "KeyTite" in metal cans	on shelves
	unknown	2	1-gal.	plastic containers, unlabeled or label illegible	
	unknown	1	5-gal.		south hallway
	unknown	1	55-gal.	unlabeled or label illegible	near elevator
	"oil separator tank"	1	~1,300 gal.?	labeled as such on blue prints, unknown if drained or not	adjacent to stack
	turbine oil	1	5-gal.	Mobil oil	hall to Old Boiler House
	fluorescent light fixtures	2	2 bulb units	ceiling 19' high	ceiling
		4	4 bulb units		ceiling
	fluorescent light bulbs	14	4' tubes		
3rd	amylase	1	3-gal.	Wallenstein Brewer's Mylase (enzyme)	
	Liquid Catalyst	3	5-gal.	"Miracote"	
	water treatment chemical	3	55-gal.	"Dearcide 702" turquoise metal drums	
	unknown	1	55-gal.	black drum	
	unknown	1	55-gal.	rusted drum	
	"corrosive"	2	55-gal.	unknown substance	
	water treatment chemical	7	50# bags	Dearborn Chemical Co., turquoise powder, bags in poor condition	
	Sakrete Sand Mix	1	50# bag	yellow bag	
	unknown	8	~ 50# bags	white powder, bags in poor condition	

TABLE 7 - Hazardous Material and Chemical Container Inventory (continued)
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

New Boiler House (continued)					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
3rd	carbon powder	4	~50# bags		
	unknown	bulk	~ 3 CY	orange granular material on floor and in drums (possibly from water conditioning system?)	
	fluorescent light fixtures	6	2 bulb units	ceiling 15' high	ceiling
	fluorescent light bulbs	12	4' tubes		
Roof	elevator lube	1	3-gal.	"Otis" in metal can	penthouse
	capacitors	12	< 1 gal. each	old and rusted	sign, ground, penthouse

TABLE 7 - Hazardous Material and Chemical Container Inventory (continued)
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

Old Boiler House					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
Upper Cellar	unknown	N/A	~ 2 CY	brown and white granular material in bin (ash or boiler brick?)	
	fluorescent light fixtures	2	2 bulb units	ceiling 15' high	
	fluorescent light bulbs	4	4' tubes		
1st	unknown	1	5-gal.	black rusty can	
	hydraulic fluid	1	5-gal.	plastic jug	
	fluorescent light fixtures	3	4 bulb units	ceiling 23' high	
	fluorescent light bulbs	4	4' tubes		
	fluorescent light fixtures	1	2 bulb unit		
	fluorescent light bulbs	2	4' tubes		
	fluorescent light bulbs	200	4' tubes	in boxes on floor, many with broken ends	near northwest wall
Mezzanine	insulating oil	1	5-gal.	General Electric (possible PCBs) in gray metal can	
	unknown	2	5-gal.	metal cans	
	weather proofing/patch	3	5-gal.	contains silicone	
	fluorescent light fixtures	2	4 bulb units	ceiling 17' high	
	fluorescent light bulbs	8	4' tubes		
2nd	fluorescent light fixtures	1	2 bulb unit	ceiling 17' high	
	fluorescent light bulbs	?	tubes		

TABLE 7 - Hazardous Material and Chemical Container Inventory (continued)
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

New Brew House					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
1st	propane cylinders	6	~33#		5 located in cage
	cement	28	~ 50# bags	Lumnite calcium aluminate cement on skid	
	fluorescent light fixtures	9	2 bulb units	ceiling 21' high	
	fluorescent light bulbs	12	8' tubes		
	fluorescent light bulbs	~50	4' tubes	box of approx. 50 bulbs in stair well	
2nd	refrigerant	1	?	large closet-sized HVAC system with internal tanks ~2-3 gal.	
	fluorescent light fixtures	9	2 bulb units	ceiling approx. 10' high	
	fluorescent light bulbs	0	4' & 8' tubes		
3rd	fluorescent light fixtures	15	2 bulb units	ceiling approx. 10' high	
	fluorescent light bulbs	2	4' & 8' tubes		
Kettle Room	fluorescent light fixtures	12	2 bulb units	ceiling approx. 10' and 20' high	
	fluorescent light bulbs	24	8' tubes	small diameter tubes	

TABLE 7 - Hazardous Material and Chemical Container Inventory (continued)
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

Rack / Fermentation House					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
Basement	N/A				
Dock Offices	fluorescent light fixtures	4	2 bulb units	ceiling approx. 8' high	
	fluorescent light bulbs	6	tubes		
1st	paint	1	1-gal.		
	asphalt plastic roof cement	1	5-gal.		
	cement	18	~ 50# bags	Lumnite calcium aluminate cement	
	fluorescent light fixtures	15	2 bulb units	ceiling 17' high	1 in stairwell
	fluorescent light bulbs	14	4' & 8' tubes		
	fluorescent light fixtures	4	4 bulb units		
	fluorescent light bulbs	16	4' tubes		
2nd (office space)	unknown	1	5-gal.		
	fluorescent light fixtures	6	2 bulb units	ceiling approx. 8' high	
		3	4 bulb units		
	fluorescent light bulbs	4	2' tubes		
		8	4' tubes		
		14	8' tubes		
3rd	unknown	1	1 quart	plastic bottle with clear liquid, white powdery corrosion around lip	
	amylase	1	2-gal.	Brewer's Mylase (enzyme)	
	sodium erythorbate	2	3-gal.		
	unknown	6	5-gal.		
	yeast nutrient	1	5-gal.	"Schwarz Yeastex-61"	
	"dex"	1	30-gal.		
	antioxidant	1	30-gal.	A.O. Special Antioxidant	
	unknown	4	55-gal.		
	propylene glycol alginate	1	55-gal.	Kelcoloid O (food additive)	
	activated carbon	3	55-gal.		
		15	~50# bags		
	cellulose	7	~20# bags	powdered cellulose "Solka Floc" floculant	
	fluorescent light fixtures	11	2 bulb units	ceiling 17' high	
	fluorescent light bulbs	16	4' tubes		
4th	fluorescent light fixtures	25	2 bulb units	ceiling 21' high	
	fluorescent light bulbs	42	4' tubes		

TABLE 7 - Hazardous Material and Chemical Container Inventory (continued)
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

Bottling / Wash House					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
Basement	roofing/flooring material	1	55-gal.	yellow drum	
	unknown	1	55-gal.	green drum	
	adhesive	1	55-gal.	Swift food packaging adhesive in black drum	
	lubricant	1	30-gal.	"Zep"	
	unknown	1	55-gal.	blue drum	
	grease	3	55-gal.	"DuBois" in green drums	
	fluorescent light fixtures	2	2 bulb units	ceiling 10' high	
	fluorescent light bulbs	?	tubes		
1st	dimethyl terephthalate (DMT)	4	55-gal.	Cape Industries	
2nd	unknown	1	3-gal.	red container	north end
	"Diochem"	3	55-gal.		
	dielectric motor safety solvent	1	55-gal.		
	water conditioning additive	1	55-gal.	"Uniflex"	
	unknown	1	55-gal.	"Delta Foremost"	
	"lube"	1	55-gal.	"Rexlube"	
	unknown	3	55-gal.		
	Scalite	1	30-gal.	bottle wash and water conditioner	
	unknown	4	<1 quart	miscellaneous	north-central
	unknown	1	1-gal.	glass container	
	phosphoric acid	4	1-gal.	plastic jugs	
	WD-40	1	1-gal.	metal can	
	coating	1	2-gal.	Cadalar(?) fire retardant vapor barrier insulation coating in metal container	
	thread cutting oil	1	5-gal.	"Rigid Nu-Clear Thread Cutting Oil" in red metal container	
	unknown	1	5-gal.	green metal bucket with lid	
	metal sealer	1	5-gal.	"Multiway FP-10" metal sealer, rusty blue container	
	Entec #327	1	5-gal.	"Betz Entec" in white plastic bucket	
	"acid"	1	5-gal.	white plastic bucket with lid, label hand-written	
	unknown	5	5-gal.	rusty metal buckets with lids	
	empty	1	15-gal.	Udder-Bac udder wash	

TABLE 7 - Hazardous Material and Chemical Container Inventory (continued)
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

Wash House (continued)					
Floor	**Description**	**Estimated No. of Units**	**Approximate Size**	**Comments**	**Location**
2nd	lacquer thinner	1	1-gal.	"Klean Strip" in metal can	south-central
	paint	1	5-gal.	"Medusa Portland Cement Paint"	
	unknown	1	5-gal.		
	lubricant	1	5-gal.	"Keystone Nevastane HT-1" food-grade lubricant in white plastic bucket	
	flooring material	1	5-gal.	"Stonhard Stonplate" in metal bucket	
	unknown	1	5-gal.	orange plastic container	
	unknown	1	5-gal.	blue metal container	
	alkaline	1	10-gal.	white plastic container	
	metallic grit	4	30-gal.	fiberboard drums, one labeled "dex"	
	unknown fluid and trash	1	30-gal.	"DuBois Chemicals" green open-top drum	
	stamped metal parts	1	40-gal.	white and blue fiberboard drum labeled "Styron"	
	oil	1	55-gal.	black and red metal drum	
	water treatment chemical	1	55-gal.	"Dearcide 702" in greenish metal drum	
	unknown	1	55-gal.	green rusty drum	
	lubricant	1	30-gal.	"Rexlube ITO Heavy" in red metal drum	southeast cage
	unknown	4	55-gal.	metal drums, probably lubricant	
	unknown	1	55-gal.	"Delta Foremost"	
	fluorescent light fixtures	17	4 bulb units	ceiling 17' high	throughout floor
	fluorescent light bulbs	59	4' tubes		

TABLE 8-A - QA/QC Analytical Results Summary: Duplicate Samples
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, Ohio

Duplicate ID		D-1		D-2		D-3		D-4		D-5		D-6		D-7		D-8		P-A		P-B		P-C		P-D	
Original Sample ID		B-5 (20-21)		MW-4 (8-10)		MW-4 (12-14)		MW-1 (8-10)		MW-1 (10-12)		B-2 (12-14)		MW-3		MW-1		P-14		P-48		P-71		P-33	
Media		Soil		Soil		Soil		Soil		Soil		Soil		Groundwater		Groundwater		PCB Wipe		PCB Wipe		PCB Wipe		PCB Wipe	
Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/L		mg/L		µg/100 cm^2		µg/100 cm^2		µg/100 cm^2		µg/100 cm^2	
Result Type		Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate	Original	Duplicate
VOCs	Trichloroethene			<0.00469	<0.0105			<0.00505	<0.0101					0.0197	0.0213	0.035	0.0374								
	All other VOCs			BDL	BDL			BDL	BDL					BDL	BDL	BDL	BDL								
PAHs	Acenaphthene					<0.105	<0.114					0.182	<1.19	BDL	BDL										
	Acenaphthylene					<0.105	<0.114					<0.127	<1.19	BDL	BDL										
	Anthracene					<0.105	<0.114					0.334	<1.19	BDL	BDL										
	Benzo(a)anthracene					<0.105	<0.114					1.1	<1.19	BDL	BDL										
	Benzo(b)flouranthene					<0.105	<0.114					0.811	<1.19	BDL	BDL										
	Benzo(k)fluoranthene					<0.105	<0.114					0.765	<1.19	BDL	BDL										
	Benzo(g,h,i)perylene					<0.105	<0.114					0.581	<1.19	BDL	BDL										
	Benzo(a)pyrene					<0.105	<0.114					1.02	<1.19	BDL	BDL										
	Chrysene					<0.105	<0.114					1.15	<1.19	BDL	BDL										
	Dibenz(a,h)anthracene					<0.105	<0.114					0.293	<1.19	BDL	BDL										
	Fluoranthene					<0.105	<0.114					2.96	<1.19	BDL	BDL										
	Fluorene					<0.105	<0.114					0.153	<1.19	BDL	BDL										
	Indeno(1,2,3-cd)pyrene					<0.105	<0.114					0.628	<1.19	BDL	BDL										
	2-Methylnaphthalene					<0.105	<0.114					0.2025	<1.19	BDL	BDL										
	Naphthalene					<0.105	<0.114					<0.127	<1.19	BDL	BDL										
	Phenanthrene					<0.105	<0.114					2.68	<1.19	BDL	BDL										
	Pyrene					<0.105	<0.114					1.81	<1.19	BDL	BDL										
TPH	C_6-C_{12}			<5.23	<5.36			<5.93	<5.95																
	C_{10}-C_{20}					<10.7	<11.5					137	74.8												
	C_{20}-C_{34}					<533	<574					826	<598												
RCRA Metals	Silver	<1.2	<1.05							<1.12	<1.19	<1.24	<1.14												
	Arsenic	23.2	14.3							13	10.9	15.7	16												
	Barium	1310	412							73	65.6	116	96.4												
	Cadmium	2.4	3.48							0.58	0.452	0.782	1.53												
	Chromium	23.4	24.6							12.7	11.5	20.5	22.7												
	Lead	5800	2120							21.8	19.7	285	195												
	Selenium	<5.98	<5.27							<5.61	<5.97	<6.18	<5.68												
	Mercury	4.44	0.823							<0.117	<0.11	2.82	3.43												
Polychlorinated Biphenyls (PCBs)		<0.0277	<0.0246							<0.0237	<0.024							14.2	<0.5	1.53	1.31	<0.5	0.9	12.2	5.14

BDL - Below detection limits

Relative Percent Difference	Duplicate ID	D-1	D-5	D-6	D-7	D-8	P-B	P-D
	Original ID	B-5 (20-21)	MW-1 (10-12)	B-2 (12-14)	MW-3	MW-1	P-48	P-33
	Trichloroethene				7.8%	6.6%		
	TPH: C_{10}-C_{20}			58.7%				
	Arsenic	47.5%	17.6%	1.9%				
	Barium	104.3%	10.7%	18.5%				
	Cadmium	36.7%	24.8%	64.7%				
	Chromium	5.0%	9.9%	10.2%				
	Lead	92.9%	10.1%	37.5%				
	Mercury	137.5%		19.5%				
	PCBs						15.5%	81.4%

TABLE 8-B - QA/QC Analytical Results Summary: Blank Samples

Former Hudepohl Brewery

801 West Sixth Street, Cincinnati, Ohio

Blank ID		Trip Blanks				Equipment Blanks			Wipe Blanks		Field Blanks		
		TB-1	TB-2	TB-3	TB-4	EB-1	EB-2	EB-3	Blank 1	BL-2	FB-1	FB-2	FB-3
Associated task		soil sampling	soil sampling	soil sampling	water sampling	soil sampling	soil sampling	water sampling	PCB wipe sampling	PCB wipe sampling	soil sampling	water sampling	water sampling
Date Collected		07/06/10	07/07/10	07/08/10	07/12/10	07/06/10	07/08/10	10/05/10	09/28/10	09/30/10	07/07/10	07/12/10	10/05/10
VOCs	Chloroform [A]	BDL	BDL	BDL	BDL	BDL	BDL	BDL			BDL	0.0277	BDL
	Chloromethane [A]	BDL	BDL	BDL	BDL	BDL	BDL	BDL			BDL	0.00619	BDL
	All Other VOCs	BDL	BDL	BDL	BDL	BDL	BDL	BDL			BDL	BDL	BDL
All PAHs							BDL				BDL	BDL	
RCRA Metals	Silver					<0.0005	<0.0005				<0.0005		
	Arsenic					<0.005	<0.005				<0.005		
	Barium					<0.005	<0.005				<0.005		
	Cadmium					<0.0005	<0.0005				<0.0005		
	Chromium					<0.005	<0.005				<0.005		
	Lead					<0.005	<0.005				<0.005		
	Selenium					<0.01	<0.01				<0.01		
	Mercury					<0.0002	<0.0002				<0.0002		
Polychlorinated Biphenyls (PCBs)							<0.5		<0.5 ug/wipe	<0.5 ug/wipe			

VOCs - Volatile Organic Compounds

BDL - Below detection limits

A - Chloroform and chloromethane are present at low concentrations in chlorinated potable water. Given the low concentrations present, the lack of detectable chloroform in associated water samples, the presence of chloroform and chloromethane in QA/QC samples is not considered a reason to reject the validity of reported results.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		2-4	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	12.7	21	0.6047619	420	0.0302381	6.7	1.8955224	640	0.0198438
	Barium	106	15000	0.0070667	120000	0.0008833				
	Cadmium	0.708	72	0.0098333	1600	0.0004425	22000	3.218E-05	83000	8.53E-06
	Chromium	15.6	230	0.0678261	15000	0.00104	3300	0.0047273	13000	0.0012
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.0819	1.2	0.06825	42	0.00195	4	0.020475	230	0.0003561
Total Risk Ratio				0.765		0.035		1.921		0.021

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		10-12	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	11.5	21	0.547619	420	0.027381	6.7	1.7164179	640	0.0179688
	Barium	60.1	15000	0.0040067	120000	0.0005008				
	Cadmium	0.686	72	0.0095278	1600	0.0004288	22000	3.118E-05	83000	8.265E-06
	Chromium	12	230	0.0521739	15000	0.0008	3300	0.0036364	13000	0.0009231
	Mercury	0.0575	7.6	0.0075658	190	0.0003026				
Polychlorinated Biphenyls (PCBs)		0.08435	1.2	0.0702917	42	0.0020083	4	0.0210875	230	0.0003667
Total Risk Ratio				0.691		0.031		1.741		0.019

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.535	3500	0.0001529	440000	1.216E-06				
	Anthracene	0.535	18000	2.972E-05	1000000	5.35E-07				
	Benzo(a)anthracene	0.535					11	0.0486364	680	0.0007868
	Benzo(b)flouranthene	0.535					11	0.0486364	690	0.0007754
	Benzo(k)fluoranthene	0.535					110	0.0048636	6900	7.754E-05
	Benzo(a)pyrene	0.535					1.1	0.4863636	69	0.0077536
	Chrysene	0.535					1100	0.0004864	69000	7.754E-06
	Dibenz(a,h)anthracene	0.535					1.1	0.4863636	69	0.0077536
	Fluoranthene	0.535	2400	0.0002229	290000	1.845E-06				
	Fluorene	0.535	2400	0.0002229	290000	1.845E-06				
	Indeno(1,2,3-cd)pyrene	0.535					11	0.0486364	690	0.0007754
	Naphthalene	0.535	180	0.0029722	84	0.006369	69	0.0077536	580	0.0009224
	Pyrene	0.535	1800	0.0002972	220000	2.432E-06				
RCRA Metals	Arsenic	20.5	21	0.9761905	420	0.0488095	6.7	3.0597015	640	0.0320313
	Barium	150	15000	0.01	120000	0.00125				
	Cadmium	4.38	72	0.0608333	1600	0.0027375	22000	0.0001991	83000	5.277E-05
	Chromium	17.7	230	0.0769565	15000	0.00118	3300	0.0053636	13000	0.0013615
	Mercury	0.709	7.6	0.0932895	190	0.0037316				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				1.284		0.066		4.216		0.053

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.182	3500	0.000052	440000	4.136E-07				
	Anthracene	0.334	18000	1.856E-05	1000000	3.34E-07				
	Benzo(a)anthracene	1.1					11	0.1	680	0.0016176
	Benzo(b)flouranthene	0.811					11	0.0737273	690	0.0011754
	Benzo(k)fluoranthene	0.765					110	0.0069545	6900	0.0001109
	Benzo(a)pyrene	1.02					1.1	0.9272727	69	0.0147826
	Chrysene	1.15					1100	0.0010455	69000	1.667E-05
	Dibenz(a,h)anthracene	0.293					1.1	0.2663636	69	0.0042464
	Fluoranthene	2.96	2400	0.0012333	290000	1.021E-05				
	Fluorene	0.153	2400	6.375E-05	290000	5.276E-07				
	Indeno(1,2,3-cd)pyrene	0.628					11	0.0570909	690	0.0009101
	Naphthalene	0.2025	180	0.001125	84	0.0024107	69	0.0029348	580	0.0003491
	Pyrene	1.81	1800	0.0010056	220000	8.227E-06				
RCRA Metals	Arsenic	15.7	21	0.747619	420	0.037381	6.7	2.3432836	640	0.0245313
	Barium	116	15000	0.0077333	120000	0.0009667				
	Cadmium	0.782	72	0.0108611	1600	0.0004888	22000	3.555E-05	83000	9.422E-06
	Chromium	20.5	230	0.0891304	15000	0.0013667	3300	0.0062121	13000	0.0015769
	Mercury	2.82	7.6	0.3710526	190	0.0148421				
Polychlorinated Biphenyls (PCBs)		0.08925	1.2	0.074375	42	0.002125	4	0.0223125	230	0.000388
Total Risk Ratio				1.304		0.060		3.807		0.050

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		0-2	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	10.7	21	0.5095238	420	0.0254762	6.7	1.5970149	640	0.0167188
	Barium	148	15000	0.0098667	120000	0.0012333				
	Cadmium	0.585	72	0.008125	1600	0.0003656	22000	2.659E-05	83000	7.048E-06
	Chromium	16.6	230	0.0721739	15000	0.0011067	3300	0.0050303	13000	0.0012769
	Mercury	0.061	7.6	0.0080263	190	0.0003211				
Polychlorinated Biphenyls (PCBs)		0.0826	1.2	0.0688333	42	0.0019667	4	0.02065	230	0.0003591
Total Risk Ratio				0.677		0.030		1.623		0.018

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		8-10	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	11.6	21	0.552381	420	0.027619	6.7	1.7313433	640	0.018125
	Barium	73.3	15000	0.0048867	120000	0.0006108				
	Cadmium	0.705	72	0.0097917	1600	0.0004406	22000	3.205E-05	83000	8.494E-06
	Chromium	13.2	230	0.0573913	15000	0.00088	3300	0.004	13000	0.0010154
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.08365	1.2	0.0697083	42	0.0019917	4	0.0209125	230	0.0003637
Total Risk Ratio				0.702		0.032		1.756		0.020

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-4A	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.0565	3500	1.614E-05	440000	1.284E-07				
	Anthracene	0.0565	18000	3.139E-06	1000000	5.65E-08				
	Benzo(a)anthracene	0.394					11	0.0358182	680	0.0005794
	Benzo(b)flouranthene	0.276					11	0.0250909	690	0.0004
	Benzo(k)fluoranthene	0.35					110	0.0031818	6900	5.072E-05
	Benzo(a)pyrene	0.35					1.1	0.3181818	69	0.0050725
	Chrysene	0.358					1100	0.0003255	69000	5.188E-06
	Dibenz(a,h)anthracene	0.0565					1.1	0.0513636	69	0.0008188
	Fluoranthene	0.965	2400	0.0004021	290000	3.328E-06				
	Fluorene	0.0565	2400	2.354E-05	290000	1.948E-07				
	Indeno(1,2,3-cd)pyrene	0.278					11	0.0252727	690	0.0004029
	Naphthalene	0.0565	180	0.0003139	84	0.0006726	69	0.0008188	580	9.741E-05
	Pyrene	0.701	1800	0.0003894	220000	3.186E-06				
RCRA Metals	Arsenic	9.91	21	0.4719048	420	0.0235952	6.7	1.4791045	640	0.0154844
	Barium	48.3	15000	0.00322	120000	0.0004025				
	Cadmium	0.541	72	0.0075139	1600	0.0003381	22000	2.459E-05	83000	6.518E-06
	Chromium	11.1	230	0.0482609	15000	0.00074	3300	0.0033636	13000	0.0008538
	Mercury	0.0605	7.6	0.0079605	190	0.0003184				
Polychlorinated Biphenyls (PCBs)		0.0791	1.2	0.0659167	42	0.0018833	4	0.019775	230	0.0003439
Total Risk Ratio				0.606		0.028		1.962		0.024

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-4A	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	7.07	21	0.3366667	420	0.0168333	6.7	1.0552239	640	0.0110469
	Barium	25.3	15000	0.0016867	120000	0.0002108				
	Cadmium	0.35	72	0.0048611	1600	0.0002188	22000	1.591E-05	83000	4.217E-06
	Chromium	5.62	230	0.0244348	15000	0.0003747	3300	0.001703	13000	0.0004323
	Mercury	0.05	7.6	0.0065789	190	0.0002632				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.437		0.020		1.076		0.012

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-5	Residential		Excavation		Residential		Excavation	
Depth (ft)		6-8	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	4.88	21	0.232381	420	0.011619	6.7	0.7283582	640	0.007625
	Barium	19.7	15000	0.0013133	120000	0.0001642				
	Cadmium	0.244	72	0.0033889	1600	0.0001525	22000	1.109E-05	83000	2.94E-06
	Chromium	5.64	230	0.0245217	15000	0.000376	3300	0.0017091	13000	0.0004338
	Mercury	0.053	7.6	0.0069737	190	0.0002789				
Polychlorinated Biphenyls (PCBs)		0.07385	1.2	0.0615417	42	0.0017583	4	0.0184625	230	0.0003211
Total Risk Ratio				0.330		0.014		0.749		0.008

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-5	Residential		Excavation		Residential		Excavation	
Depth (ft)		20-21	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	23.2	21	1.1047619	420	0.0552381	6.7	3.4626866	640	0.03625
	Barium	1310	15000	0.0873333	120000	0.0109167				
	Cadmium	2.4	72	0.0333333	1600	0.0015	22000	0.0001091	83000	2.892E-05
	Chromium	23.4	230	0.1017391	15000	0.00156	3300	0.0070909	13000	0.0018
	Mercury	4.44	7.6	0.5842105	190	0.0233684				
Polychlorinated Biphenyls (PCBs)		0.09695	1.2	0.0807917	42	0.0023083	4	0.0242375	230	0.0004215
Total Risk Ratio				1.992		0.095		3.494		0.039

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-6	Residential		Excavation		Residential		Excavation	
Depth (ft)		8-10	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	11	21	0.5238095	420	0.0261905	6.7	1.641791	640	0.0171875
	Barium	64.3	15000	0.0042867	120000	0.0005358				
	Cadmium	0.614	72	0.0085278	1600	0.0003838	22000	2.791E-05	83000	7.398E-06
	Chromium	13.7	230	0.0595652	15000	0.0009133	3300	0.0041515	13000	0.0010538
	Mercury	0.0595	7.6	0.0078289	190	0.0003132				
Polychlorinated Biphenyls (PCBs)		0.08085	1.2	0.067375	42	0.001925	4	0.0202125	230	0.0003515
Total Risk Ratio				0.671		0.030		1.666		0.019

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-6	Residential		Excavation		Residential		Excavation	
Depth (ft)		16-18	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	4.53	21	0.2157143	420	0.0107857	6.7	0.6761194	640	0.0070781
	Barium	16.4	15000	0.0010933	120000	0.0001367				
	Cadmium	0.321	72	0.0044583	1600	0.0002006	22000	1.459E-05	83000	3.867E-06
	Chromium	7.07	230	0.0307391	15000	0.0004713	3300	0.0021424	13000	0.0005438
	Mercury	0.057	7.6	0.0075	190	0.0003				
Polychlorinated Biphenyls (PCBs)		0.07385	1.2	0.0615417	42	0.0017583	4	0.0184625	230	0.0003211
Total Risk Ratio				0.321		0.014		0.697		0.008

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-8	Residential		Excavation		Residential		Excavation	
Depth (ft)		0-2	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	14.4	21	0.6857143	420	0.0342857	6.7	2.1492537	640	0.0225
	Barium	57.6	15000	0.00384	120000	0.00048				
	Cadmium	0.721	72	0.0100139	1600	0.0004506	22000	3.277E-05	83000	8.687E-06
	Chromium	13.9	230	0.0604348	15000	0.0009267	3300	0.0042121	13000	0.0010692
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.0805	1.2	0.0670833	42	0.0019167	4	0.020125	230	0.00035
Total Risk Ratio				0.835		0.038		2.174		0.024

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-9	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-5	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	8.53	21	0.4061905	420	0.0203095	6.7	1.2731343	640	0.0133281
	Barium	59.8	15000	0.0039867	120000	0.0004983				
	Cadmium	0.544	72	0.0075556	1600	0.00034	22000	2.473E-05	83000	6.554E-06
	Chromium	12.2	230	0.0530435	15000	0.0008133	3300	0.003697	13000	0.0009385
	Mercury	0.125	7.6	0.0164474	190	0.0006579				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.550		0.024		1.296		0.015

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-10	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.054	3500	1.543E-05	440000	1.227E-07				
	Anthracene	0.054	18000	0.000003	1000000	5.4E-08				
	Benzo(a)anthracene	0.054					11	0.0049091	680	7.941E-05
	Benzo(b)flouranthene	0.054					11	0.0049091	690	7.826E-05
	Benzo(k)fluoranthene	0.054					110	0.0004909	6900	7.826E-06
	Benzo(a)pyrene	0.054					1.1	0.0490909	69	0.0007826
	Chrysene	0.054					1100	4.909E-05	69000	7.826E-07
	Dibenz(a,h)anthracene	0.054					1.1	0.0490909	69	0.0007826
	Fluoranthene	0.054	2400	0.0000225	290000	1.862E-07				
	Fluorene	0.054	2400	0.0000225	290000	1.862E-07				
	Indeno(1,2,3-cd)pyrene	0.054					11	0.0049091	690	7.826E-05
	Naphthalene	0.054	180	0.0003	84	0.0006429	69	0.0007826	580	9.31E-05
	Pyrene	0.054	1800	0.00003	220000	2.455E-07				
RCRA Metals	Arsenic	9.6	21	0.4571429	420	0.0228571	6.7	1.4328358	640	0.015
	Barium	71.6	15000	0.0047733	120000	0.0005967				
	Cadmium	0.731	72	0.0101528	1600	0.0004569	22000	3.323E-05	83000	8.807E-06
	Chromium	11.2	230	0.0486957	15000	0.0007467	3300	0.0033939	13000	0.0008615
	Mercury	0.0575	7.6	0.0075658	190	0.0003026				
Polychlorinated Biphenyls (PCBs)		0.0756	1.2	0.063	42	0.0018	4	0.0189	230	0.0003287
Total Risk Ratio				0.592		0.027		1.569		0.018

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-10	Residential		Excavation		Residential		Excavation	
Depth (ft)		28-30	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	3.59	21	0.1709524	420	0.0085476	6.7	0.5358209	640	0.0056094
	Barium	20.5	15000	0.0013667	120000	0.0001708				
	Cadmium	0.195	72	0.0027083	1600	0.0001219	22000	8.864E-06	83000	2.349E-06
	Chromium	4.1	230	0.0178261	15000	0.0002733	3300	0.0012424	13000	0.0003154
	Mercury	0.4655	7.6	0.06125	190	0.00245				
Polychlorinated Biphenyls (PCBs)		0.07175	1.2	0.0597917	42	0.0017083	4	0.0179375	230	0.000312
Total Risk Ratio				0.314		0.013		0.555		0.006

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-11	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	2.81	3500	0.0008029	440000	6.386E-06				
	Anthracene	13.7	18000	0.0007611	1000000	0.0000137				
	Benzo(a)anthracene	25.7					11	2.3363636	680	0.0377941
	Benzo(b)flouranthene	16					11	1.4545455	690	0.0231884
	Benzo(k)fluoranthene	19					110	0.1727273	6900	0.0027536
	Benzo(a)pyrene	24.6					1.1	22.363636	69	0.3565217
	Chrysene	25.7					1100	0.0233636	69000	0.0003725
	Dibenz(a,h)anthracene	2.81					1.1	2.5545455	69	0.0407246
	Fluoranthene	60	2400	0.025	290000	0.0002069				
	Fluorene	5.83	2400	0.0024292	290000	2.01E-05				
	Indeno(1,2,3-cd)pyrene	15.4					11	1.4	690	0.0223188
	Naphthalene	2.81	180	0.0156111	84	0.0334524	69	0.0407246	580	0.0048448
	Pyrene	43.2	1800	0.024	220000	0.0001964				
RCRA Metals	Arsenic	5.95	21	0.2833333	420	0.0141667	6.7	0.8880597	640	0.0092969
	Barium	310	15000	0.0206667	120000	0.0025833				
	Cadmium	3.57	72	0.0495833	1600	0.0022313	22000	0.0001623	83000	4.301E-05
	Chromium	30.5	230	0.1326087	15000	0.0020333	3300	0.0092424	13000	0.0023462
	Mercury	0.469	7.6	0.0617105	190	0.0024684				
Polychlorinated Biphenyls (PCBs)		0.376	1.2	0.3133333	42	0.0089524	4	0.094	230	0.0016348
Total Risk Ratio				0.930		0.066		31.337		0.502

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-12	Residential		Excavation		Residential		Excavation	
Depth (ft)		24-26	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	2.755	3500	0.0007871	440000	6.261E-06				
	Anthracene	2.755	18000	0.0001531	1000000	2.755E-06				
	Benzo(a)anthracene	2.755					11	0.2504545	680	0.0040515
	Benzo(b)flouranthene	2.755					11	0.2504545	690	0.0039928
	Benzo(k)fluoranthene	2.755					110	0.0250455	6900	0.0003993
	Benzo(a)pyrene	2.755					1.1	2.5045455	69	0.0399275
	Chrysene	2.755					1100	0.0025045	69000	3.993E-05
	Dibenz(a,h)anthracene	2.755					1.1	2.5045455	69	0.0399275
	Fluoranthene	11.1	2400	0.004625	290000	3.828E-05				
	Fluorene	2.755	2400	0.0011479	290000	0.0000095				
	Indeno(1,2,3-cd)pyrene	2.755					11	0.2504545	690	0.0039928
	Naphthalene	2.755	180	0.0153056	84	0.0327976	69	0.0399275	580	0.00475
	Pyrene	9.15	1800	0.0050833	220000	4.159E-05				
RCRA Metals	Arsenic	8.9	21	0.4238095	420	0.0211905	6.7	1.3283582	640	0.0139063
	Barium	125	15000	0.0083333	120000	0.0010417				
	Cadmium	0.752	72	0.0104444	1600	0.00047	22000	3.418E-05	83000	9.06E-06
	Chromium	21.9	230	0.0952174	15000	0.00146	3300	0.0066364	13000	0.0016846
	Mercury	0.165	7.6	0.0217105	190	0.0008684				
Polychlorinated Biphenyls (PCBs)		0.0501	1.2	0.04175	42	0.0011929	4	0.012525	230	0.0002178
Total Risk Ratio				0.628		0.059		7.175		0.113

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		10-12	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	13	21	0.6190476	420	0.0309524	6.7	1.9402985	640	0.0203125
	Barium	73	15000	0.0048667	120000	0.0006083				
	Cadmium	0.58	72	0.0080556	1600	0.0003625	22000	2.636E-05	83000	6.988E-06
	Chromium	12.7	230	0.0552174	15000	0.0008467	3300	0.0038485	13000	0.0009769
	Mercury	0.0585	7.6	0.0076974	190	0.0003079				
Polychlorinated Biphenyls (PCBs)		0.08295	1.2	0.069125	42	0.001975	4	0.0207375	230	0.0003607
Total Risk Ratio				0.764		0.035		1.965		0.022

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		16-18	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	8.89	21	0.4233333	420	0.0211667	6.7	1.3268657	640	0.0138906
	Barium	63.7	15000	0.0042467	120000	0.0005308				
	Cadmium	0.471	72	0.0065417	1600	0.0002944	22000	2.141E-05	83000	5.675E-06
	Chromium	11.5	230	0.05	15000	0.0007667	3300	0.0034848	13000	0.0008846
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.08155	1.2	0.0679583	42	0.0019417	4	0.0203875	230	0.0003546
Total Risk Ratio				0.560		0.025		1.351		0.015

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		0-2	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	3.2	3500	0.0009143	440000	7.273E-06				
	Anthracene	5.79	18000	0.0003217	1000000	5.79E-06				
	Benzo(a)anthracene	7.61					11	0.6918182	680	0.0111912
	Benzo(b)flouranthene	5.26					11	0.4781818	690	0.0076232
	Benzo(k)fluoranthene	5.62					110	0.0510909	6900	0.0008145
	Benzo(a)pyrene	7.36					1.1	6.6909091	69	0.1066667
	Chrysene	7.61					1100	0.0069182	69000	0.0001103
	Dibenz(a,h)anthracene	0.56					1.1	0.5090909	69	0.0081159
	Fluoranthene	19.3	2400	0.0080417	290000	6.655E-05				
	Fluorene	2.11	2400	0.0008792	290000	7.276E-06				
	Indeno(1,2,3-cd)pyrene	6.44					11	0.5854545	690	0.0093333
	Naphthalene	1.54	180	0.0085556	84	0.0183333	69	0.0223188	580	0.0026552
	Pyrene	16.8	1800	0.0093333	220000	7.636E-05				
RCRA Metals	Arsenic		21	0	420	0	6.7	0	640	0
	Barium		15000	0	120000	0				
	Cadmium		72	0	1600	0	22000	0	83000	0
	Chromium		230	0	15000	0	3300	0	13000	0
	Mercury		7.6	0	190	0				
Polychlorinated Biphenyls (PCBs)			1.2	0	42	0	4	0	230	0
Total Risk Ratio				0.028		0.018		9.036		0.147

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		6-8	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	9.26	21	0.4409524	420	0.0220476	6.7	1.3820896	640	0.0144688
	Barium	59.7	15000	0.00398	120000	0.0004975				
	Cadmium	0.478	72	0.0066389	1600	0.0002988	22000	2.173E-05	83000	5.759E-06
	Chromium	11.2	230	0.0486957	15000	0.0007467	3300	0.0033939	13000	0.0008615
	Mercury	0.064	7.6	0.0084211	190	0.0003368				
Polychlorinated Biphenyls (PCBs)		0.0812	1.2	0.0676667	42	0.0019333	4	0.0203	230	0.000353
Total Risk Ratio				0.576		0.026		1.406		0.016

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		10-12	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.055	3500	1.571E-05	440000	1.25E-07				
	Anthracene	0.055	18000	3.056E-06	1000000	5.5E-08				
	Benzo(a)anthracene	0.055					11	0.005	680	8.088E-05
	Benzo(b)flouranthene	0.055					11	0.005	690	7.971E-05
	Benzo(k)fluoranthene	0.055					110	0.0005	6900	7.971E-06
	Benzo(a)pyrene	0.055					1.1	0.05	69	0.0007971
	Chrysene	0.055					1100	0.00005	69000	7.971E-07
	Dibenz(a,h)anthracene	0.055					1.1	0.05	69	0.0007971
	Fluoranthene	0.055	2400	2.292E-05	290000	1.897E-07				
	Fluorene	0.146	2400	6.083E-05	290000	5.034E-07				
	Indeno(1,2,3-cd)pyrene	0.055					11	0.005	690	7.971E-05
	Naphthalene	0.055	180	0.0003056	84	0.0006548	69	0.0007971	580	9.483E-05
	Pyrene	0.173	1800	9.611E-05	220000	7.864E-07				
RCRA Metals	Arsenic		21	0	420	0	6.7	0	640	0
	Barium		15000	0	120000	0				
	Cadmium		72	0	1600	0	22000	0	83000	0
	Chromium		230	0	15000	0	3300	0	13000	0
	Mercury		7.6	0	190	0				
Polychlorinated Biphenyls (PCBs)			1.2	0	42	0	4	0	230	0
Total Risk Ratio				0.001		0.001		0.116		0.002

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	12	21	0.5714286	420	0.0285714	6.7	1.7910448	640	0.01875
	Barium	74.7	15000	0.00498	120000	0.0006225				
	Cadmium	0.667	72	0.0092639	1600	0.0004169	22000	3.032E-05	83000	8.036E-06
	Chromium	17.3	230	0.0752174	15000	0.0011533	3300	0.0052424	13000	0.0013308
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.0819	1.2	0.06825	42	0.00195	4	0.020475	230	0.0003561
Total Risk Ratio				0.737		0.033		1.817		0.020

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	10.2	21	0.4857143	420	0.0242857	6.7	1.5223881	640	0.0159375
	Barium	55.3	15000	0.0036867	120000	0.0004608				
	Cadmium	0.6	72	0.0083333	1600	0.000375	22000	2.727E-05	83000	7.229E-06
	Chromium	14.6	230	0.0634783	15000	0.0009733	3300	0.0044242	13000	0.0011231
	Mercury	0.123	7.6	0.0161842	190	0.0006474				
Polychlorinated Biphenyls (PCBs)			1.2	0	42	0	4	0	230	0
Total Risk Ratio				0.577		0.027		1.527		0.017

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		30-32	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	4.51	21	0.2147619	420	0.0107381	6.7	0.6731343	640	0.0070469
	Barium	26.6	15000	0.0017733	120000	0.0002217				
	Cadmium	0.275	72	0.0038194	1600	0.0001719	22000	0.0000125	83000	3.313E-06
	Chromium	3.51	230	0.0152609	15000	0.000234	3300	0.0010636	13000	0.00027
	Mercury	0.0555	7.6	0.0073026	190	0.0002921				
Polychlorinated Biphenyls (PCBs)		0.07175	1.2	0.0597917	42	0.0017083	4	0.0179375	230	0.000312
Total Risk Ratio				0.303		0.013		0.692		0.008

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9 - Multiple Chemical Evaluation
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-4	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	7.22	21	0.3438095	420	0.0171905	6.7	1.0776119	640	0.0112813
	Barium	16.1	15000	0.0010733	120000	0.0001342				
	Cadmium	0.341	72	0.0047361	1600	0.0002131	22000	0.0000155	83000	4.108E-06
	Chromium	4.87	230	0.0211739	15000	0.0003247	3300	0.0014758	13000	0.0003746
	Mercury	0.058	7.6	0.0076316	190	0.0003053				
Polychlorinated Biphenyls (PCBs)		0.07875	1.2	0.065625	42	0.001875	4	0.0196875	230	0.0003424
Total Risk Ratio				0.444		0.020		1.099		0.012

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-4	Residential		Excavation		Residential		Excavation	
Depth (ft)		8-10	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	6.61	21	0.3147619	420	0.0157381	6.7	0.9865672	640	0.0103281
	Barium	17.2	15000	0.0011467	120000	0.0001433				
	Cadmium	0.292	72	0.0040556	1600	0.0001825	22000	1.327E-05	83000	3.518E-06
	Chromium	7.61	230	0.033087	15000	0.0005073	3300	0.0023061	13000	0.0005854
	Mercury	0.0505	7.6	0.0066447	190	0.0002658				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.422		0.019		1.008		0.011

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		2-4	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	106	15000	0.0070667	120000	0.0008833				
	Cadmium	0.708	72	0.0098333	1600	0.0004425	22000	3.218E-05	83000	8.53E-06
	Chromium	15.6	230	0.0678261	15000	0.00104	3300	0.0047273	13000	0.0012
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.0819	1.2	0.06825	42	0.00195	4	0.020475	230	0.0003561
Total Risk Ratio				0.160		0.005		0.025		0.002

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		10-12	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	60.1	15000	0.0040067	120000	0.0005008				
	Cadmium	0.686	72	0.0095278	1600	0.0004288	22000	3.118E-05	83000	8.265E-06
	Chromium	12	230	0.0521739	15000	0.0008	3300	0.0036364	13000	0.0009231
	Mercury	0.0575	7.6	0.0075658	190	0.0003026				
Polychlorinated Biphenyls (PCBs)		0.08435	1.2	0.0702917	42	0.0020083	4	0.0210875	230	0.0003667
Total Risk Ratio				0.144		0.004		0.025		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.535	3500	0.0001529	440000	1.216E-06				
	Anthracene	0.535	18000	2.972E-05	1000000	5.35E-07				
	Benzo(a)anthracene	0.535					11	0.0486364	680	0.0007868
	Benzo(b)flouranthene	0.535					11	0.0486364	690	0.0007754
	Benzo(k)fluoranthene	0.535					110	0.0048636	6900	7.754E-05
	Benzo(a)pyrene	0.535					1.1	0.4863636	69	0.0077536
	Chrysene	0.535					1100	0.0004864	69000	7.754E-06
	Dibenz(a,h)anthracene	0.535					1.1	0.4863636	69	0.0077536
	Fluoranthene	0.535	2400	0.0002229	290000	1.845E-06				
	Fluorene	0.535	2400	0.0002229	290000	1.845E-06				
	Indeno(1,2,3-cd)pyrene	0.535					11	0.0486364	690	0.0007754
	Naphthalene	0.535	180	0.0029722	84	0.006369	69	0.0077536	580	0.0009224
	Pyrene	0.535	1800	0.0002972	220000	2.432E-06				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	150	15000	0.01	120000	0.00125				
	Cadmium	4.38	72	0.0608333	1600	0.0027375	22000	0.0001991	83000	5.277E-05
	Chromium	17.7	230	0.0769565	15000	0.00118	3300	0.0053636	13000	0.0013615
	Mercury	0.709	7.6	0.0932895	190	0.0037316				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.307		0.017		1.156		0.021

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.182	3500	0.000052	440000	4.136E-07				
	Anthracene	0.334	18000	1.856E-05	1000000	3.34E-07				
	Benzo(a)anthracene	1.1					11	0.1	680	0.0016176
	Benzo(b)flouranthene	0.811					11	0.0737273	690	0.0011754
	Benzo(k)fluoranthene	0.765					110	0.0069545	6900	0.0001109
	Benzo(a)pyrene	1.02					1.1	0.9272727	69	0.0147826
	Chrysene	1.15					1100	0.0010455	69000	1.667E-05
	Dibenz(a,h)anthracene	0.293					1.1	0.2663636	69	0.0042464
	Fluoranthene	2.96	2400	0.0012333	290000	1.021E-05				
	Fluorene	0.153	2400	6.375E-05	290000	5.276E-07				
	Indeno(1,2,3-cd)pyrene	0.628					11	0.0570909	690	0.0009101
	Naphthalene	0.2025	180	0.001125	84	0.0024107	69	0.0029348	580	0.0003491
	Pyrene	1.81	1800	0.0010056	220000	8.227E-06				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	116	15000	0.0077333	120000	0.0009667				
	Cadmium	0.782	72	0.0108611	1600	0.0004888	22000	3.555E-05	83000	9.422E-06
	Chromium	20.5	230	0.0891304	15000	0.0013667	3300	0.0062121	13000	0.0015769
	Mercury	2.82	7.6	0.3710526	190	0.0148421				
Polychlorinated Biphenyls (PCBs)		0.08925	1.2	0.074375	42	0.002125	4	0.0223125	230	0.000388
Total Risk Ratio				0.557		0.022		1.464		0.025

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		0-2	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	148	15000	0.0098667	120000	0.0012333				
	Cadmium	0.585	72	0.008125	1600	0.0003656	22000	2.659E-05	83000	7.048E-06
	Chromium	16.6	230	0.0721739	15000	0.0011067	3300	0.0050303	13000	0.0012769
	Mercury	0.061	7.6	0.0080263	190	0.0003211				
Polychlorinated Biphenyls (PCBs)		0.0826	1.2	0.0688333	42	0.0019667	4	0.02065	230	0.0003591
Total Risk Ratio				0.167		0.005		0.026		0.002

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		8-10	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	73.3	15000	0.0048867	120000	0.0006108				
	Cadmium	0.705	72	0.0097917	1600	0.0004406	22000	3.205E-05	83000	8.494E-06
	Chromium	13.2	230	0.0573913	15000	0.00088	3300	0.004	13000	0.0010154
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.08365	1.2	0.0697083	42	0.0019917	4	0.0209125	230	0.0003637
Total Risk Ratio				0.149		0.004		0.025		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-4A	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.0565	3500	1.614E-05	440000	1.284E-07				
	Anthracene	0.0565	18000	3.139E-06	1000000	5.65E-08				
	Benzo(a)anthracene	0.394					11	0.0358182	680	0.0005794
	Benzo(b)flouranthene	0.276					11	0.0250909	690	0.0004
	Benzo(k)fluoranthene	0.35					110	0.0031818	6900	5.072E-05
	Benzo(a)pyrene	0.35					1.1	0.3181818	69	0.0050725
	Chrysene	0.358					1100	0.0003255	69000	5.188E-06
	Dibenz(a,h)anthracene	0.0565					1.1	0.0513636	69	0.0008188
	Fluoranthene	0.965	2400	0.0004021	290000	3.328E-06				
	Fluorene	0.0565	2400	2.354E-05	290000	1.948E-07				
	Indeno(1,2,3-cd)pyrene	0.278					11	0.0252727	690	0.0004029
	Naphthalene	0.0565	180	0.0003139	84	0.0006726	69	0.0008188	580	9.741E-05
	Pyrene	0.701	1800	0.0003894	220000	3.186E-06				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	48.3	15000	0.00322	120000	0.0004025				
	Cadmium	0.541	72	0.0075139	1600	0.0003381	22000	2.459E-05	83000	6.518E-06
	Chromium	11.1	230	0.0482609	15000	0.00074	3300	0.0033636	13000	0.0008538
	Mercury	0.0605	7.6	0.0079605	190	0.0003184				
Polychlorinated Biphenyls (PCBs)		0.0791	1.2	0.0659167	42	0.0018833	4	0.019775	230	0.0003439
Total Risk Ratio				0.134		0.004		0.483		0.009

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-4A	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	25.3	15000	0.0016867	120000	0.0002108				
	Cadmium	0.35	72	0.0048611	1600	0.0002188	22000	1.591E-05	83000	4.217E-06
	Chromium	5.62	230	0.0244348	15000	0.0003747	3300	0.001703	13000	0.0004323
	Mercury	0.05	7.6	0.0065789	190	0.0002632				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.100		0.003		0.020		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-5	Residential		Excavation		Residential		Excavation	
Depth (ft)		6-8	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	19.7	15000	0.0013133	120000	0.0001642				
	Cadmium	0.244	72	0.0033889	1600	0.0001525	22000	1.109E-05	83000	2.94E-06
	Chromium	5.64	230	0.0245217	15000	0.000376	3300	0.0017091	13000	0.0004338
	Mercury	0.053	7.6	0.0069737	190	0.0002789				
Polychlorinated Biphenyls (PCBs)		0.07385	1.2	0.0615417	42	0.0017583	4	0.0184625	230	0.0003211
Total Risk Ratio				0.098		0.003		0.020		0.001

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-5	Residential		Excavation		Residential		Excavation	
Depth (ft)		20-21	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	1310	15000	0.0873333	120000	0.0109167				
	Cadmium	2.4	72	0.0333333	1600	0.0015	22000	0.0001091	83000	2.892E-05
	Chromium	23.4	230	0.1017391	15000	0.00156	3300	0.0070909	13000	0.0018
	Mercury	4.44	7.6	0.5842105	190	0.0233684				
Polychlorinated Biphenyls (PCBs)		0.09695	1.2	0.0807917	42	0.0023083	4	0.0242375	230	0.0004215
Total Risk Ratio				0.887		0.040		0.031		0.002

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-6	Residential		Excavation		Residential		Excavation	
Depth (ft)		8-10	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	64.3	15000	0.0042867	120000	0.0005358				
	Cadmium	0.614	72	0.0085278	1600	0.0003838	22000	2.791E-05	83000	7.398E-06
	Chromium	13.7	230	0.0595652	15000	0.0009133	3300	0.0041515	13000	0.0010538
	Mercury	0.0595	7.6	0.0078289	190	0.0003132				
Polychlorinated Biphenyls (PCBs)		0.08085	1.2	0.067375	42	0.001925	4	0.0202125	230	0.0003515
Total Risk Ratio				0.148		0.004		0.024		0.001

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-6	Residential		Excavation		Residential		Excavation	
Depth (ft)		16-18	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	16.4	15000	0.0010933	120000	0.0001367				
	Cadmium	0.321	72	0.0044583	1600	0.0002006	22000	1.459E-05	83000	3.867E-06
	Chromium	7.07	230	0.0307391	15000	0.0004713	3300	0.0021424	13000	0.0005438
	Mercury	0.057	7.6	0.0075	190	0.0003				
Polychlorinated Biphenyls (PCBs)		0.07385	1.2	0.0615417	42	0.0017583	4	0.0184625	230	0.0003211
Total Risk Ratio				0.105		0.003		0.021		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-8	Residential		Excavation		Residential		Excavation	
Depth (ft)		0-2	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	57.6	15000	0.00384	120000	0.00048				
	Cadmium	0.721	72	0.0100139	1600	0.0004506	22000	3.277E-05	83000	8.687E-06
	Chromium	13.9	230	0.0604348	15000	0.0009267	3300	0.0042121	13000	0.0010692
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.0805	1.2	0.0670833	42	0.0019167	4	0.020125	230	0.00035
Total Risk Ratio				0.149		0.004		0.024		0.001

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-9	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-5	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	59.8	15000	0.0039867	120000	0.0004983				
	Cadmium	0.544	72	0.0075556	1600	0.00034	22000	2.473E-05	83000	6.554E-06
	Chromium	12.2	230	0.0530435	15000	0.0008133	3300	0.003697	13000	0.0009385
	Mercury	0.125	7.6	0.0164474	190	0.0006579				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.143		0.004		0.022		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-10	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.054	3500	1.543E-05	440000	1.227E-07				
	Anthracene	0.054	18000	0.000003	1000000	5.4E-08				
	Benzo(a)anthracene	0.054					11	0.0049091	680	7.941E-05
	Benzo(b)flouranthene	0.054					11	0.0049091	690	7.826E-05
	Benzo(k)fluoranthene	0.054					110	0.0004909	6900	7.826E-06
	Benzo(a)pyrene	0.054					1.1	0.0490909	69	0.0007826
	Chrysene	0.054					1100	4.909E-05	69000	7.826E-07
	Dibenz(a,h)anthracene	0.054					1.1	0.0490909	69	0.0007826
	Fluoranthene	0.054	2400	0.0000225	290000	1.862E-07				
	Fluorene	0.054	2400	0.0000225	290000	1.862E-07				
	Indeno(1,2,3-cd)pyrene	0.054					11	0.0049091	690	7.826E-05
	Naphthalene	0.054	180	0.0003	84	0.0006429	69	0.0007826	580	9.31E-05
	Pyrene	0.054	1800	0.00003	220000	2.455E-07				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	71.6	15000	0.0047733	120000	0.0005967				
	Cadmium	0.731	72	0.0101528	1600	0.0004569	22000	3.323E-05	83000	8.807E-06
	Chromium	11.2	230	0.0486957	15000	0.0007467	3300	0.0033939	13000	0.0008615
	Mercury	0.0575	7.6	0.0075658	190	0.0003026				
Polychlorinated Biphenyls (PCBs)		0.0756	1.2	0.063	42	0.0018	4	0.0189	230	0.0003287
Total Risk Ratio				0.135		0.005		0.137		0.003

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-10	Residential		Excavation		Residential		Excavation	
Depth (ft)		28-30	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	20.5	15000	0.0013667	120000	0.0001708				
	Cadmium	0.195	72	0.0027083	1600	0.0001219	22000	8.864E-06	83000	2.349E-06
	Chromium	4.1	230	0.0178261	15000	0.0002733	3300	0.0012424	13000	0.0003154
	Mercury	0.4655	7.6	0.06125	190	0.00245				
Polychlorinated Biphenyls (PCBs)		0.07175	1.2	0.0597917	42	0.0017083	4	0.0179375	230	0.000312
Total Risk Ratio				0.143		0.005		0.019		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-11	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	2.81	3500	0.0008029	440000	6.386E-06				
	Anthracene	13.7	18000	0.0007611	1000000	0.0000137				
	Benzo(a)anthracene	25.7					11	2.3363636	680	0.0377941
	Benzo(b)flouranthene	16					11	1.4545455	690	0.0231884
	Benzo(k)fluoranthene	19					110	0.1727273	6900	0.0027536
	Benzo(a)pyrene	24.6					1.1	22.363636	69	0.3565217
	Chrysene	25.7					1100	0.0233636	69000	0.0003725
	Dibenz(a,h)anthracene	2.81					1.1	2.5545455	69	0.0407246
	Fluoranthene	60	2400	0.025	290000	0.0002069				
	Fluorene	5.83	2400	0.0024292	290000	2.01E-05				
	Indeno(1,2,3-cd)pyrene	15.4					11	1.4	690	0.0223188
	Naphthalene	2.81	180	0.0156111	84	0.0334524	69	0.0407246	580	0.0048448
	Pyrene	43.2	1800	0.024	220000	0.0001964				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	310	15000	0.0206667	120000	0.0025833				
	Cadmium	3.57	72	0.0495833	1600	0.0022313	22000	0.0001623	83000	4.301E-05
	Chromium	30.5	230	0.1326087	15000	0.0020333	3300	0.0092424	13000	0.0023462
	Mercury	0.469	7.6	0.0617105	190	0.0024684				
Polychlorinated Biphenyls (PCBs)		0.376	1.2	0.3133333	42	0.0089524	4	0.094	230	0.0016348
Total Risk Ratio				0.647		0.052		30.449		0.493

			Non-Carcinogenic				Carcinogenic			
Boring ID		B-12	Residential		Excavation		Residential		Excavation	
Depth (ft)		24-26	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	2.755	3500	0.0007871	440000	6.261E-06				
	Anthracene	2.755	18000	0.0001531	1000000	2.755E-06				
	Benzo(a)anthracene	2.755					11	0.2504545	680	0.0040515
	Benzo(b)flouranthene	2.755					11	0.2504545	690	0.0039928
	Benzo(k)fluoranthene	2.755					110	0.0250455	6900	0.0003993
	Benzo(a)pyrene	2.755					1.1	2.5045455	69	0.0399275
	Chrysene	2.755					1100	0.0025045	69000	3.993E-05
	Dibenz(a,h)anthracene	2.755					1.1	2.5045455	69	0.0399275
	Fluoranthene	11.1	2400	0.004625	290000	3.828E-05				
	Fluorene	2.755	2400	0.0011479	290000	0.0000095				
	Indeno(1,2,3-cd)pyrene	2.755					11	0.2504545	690	0.0039928
	Naphthalene	2.755	180	0.0153056	84	0.0327976	69	0.0399275	580	0.00475
	Pyrene	9.15	1800	0.0050833	220000	4.159E-05				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	125	15000	0.0083333	120000	0.0010417				
	Cadmium	0.752	72	0.0104444	1600	0.00047	22000	3.418E-05	83000	9.06E-06
	Chromium	21.9	230	0.0952174	15000	0.00146	3300	0.0066364	13000	0.0016846
	Mercury	0.165	7.6	0.0217105	190	0.0008684				
Polychlorinated Biphenyls (PCBs)		0.0501	1.2	0.04175	42	0.0011929	4	0.012525	230	0.0002178
Total Risk Ratio				0.205		0.038		5.847		0.099

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		10-12	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	73	15000	0.0048667	120000	0.0006083				
	Cadmium	0.58	72	0.0080556	1600	0.0003625	22000	2.636E-05	83000	6.988E-06
	Chromium	12.7	230	0.0552174	15000	0.0008467	3300	0.0038485	13000	0.0009769
	Mercury	0.0585	7.6	0.0076974	190	0.0003079				
Polychlorinated Biphenyls (PCBs)		0.08295	1.2	0.069125	42	0.001975	4	0.0207375	230	0.0003607
Total Risk Ratio				0.145		0.004		0.025		0.001

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-1	Residential		Excavation		Residential		Excavation	
Depth (ft)		16-18	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	63.7	15000	0.0042467	120000	0.0005308				
	Cadmium	0.471	72	0.0065417	1600	0.0002944	22000	2.141E-05	83000	5.675E-06
	Chromium	11.5	230	0.05	15000	0.0007667	3300	0.0034848	13000	0.0008846
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.08155	1.2	0.0679583	42	0.0019417	4	0.0203875	230	0.0003546
Total Risk Ratio				0.136		0.004		0.024		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic

Former Hudepohl Brewery

801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		0-2	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	3.2	3500	0.0009143	440000	7.273E-06				
	Anthracene	5.79	18000	0.0003217	1000000	5.79E-06				
	Benzo(a)anthracene	7.61					11	0.6918182	680	0.0111912
	Benzo(b)flouranthene	5.26					11	0.4781818	690	0.0076232
	Benzo(k)fluoranthene	5.62					110	0.0510909	6900	0.0008145
	Benzo(a)pyrene	7.36					1.1	6.6909091	69	0.1066667
	Chrysene	7.61					1100	0.0069182	69000	0.0001103
	Dibenz(a,h)anthracene	0.56					1.1	0.5090909	69	0.0081159
	Fluoranthene	19.3	2400	0.0080417	290000	6.655E-05				
	Fluorene	2.11	2400	0.0008792	290000	7.276E-06				
	Indeno(1,2,3-cd)pyrene	6.44					11	0.5854545	690	0.0093333
	Naphthalene	1.54	180	0.0085556	84	0.0183333	69	0.0223188	580	0.0026552
	Pyrene	16.8	1800	0.0093333	220000	7.636E-05				
RCRA Metals	Arsenic		21	0	420	0	6.7	0	640	0
	Barium		15000	0	120000	0				
	Cadmium		72	0	1600	0	22000	0	83000	0
	Chromium		230	0	15000	0	3300	0	13000	0
	Mercury		7.6	0	190	0				
Polychlorinated Biphenyls (PCBs)			1.2	0	42	0	4	0	230	0
Total Risk Ratio				0.028		0.018		9.036		0.147

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		6-8	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	59.7	15000	0.00398	120000	0.0004975				
	Cadmium	0.478	72	0.0066389	1600	0.0002988	22000	2.173E-05	83000	5.759E-06
	Chromium	11.2	230	0.0486957	15000	0.0007467	3300	0.0033939	13000	0.0008615
	Mercury	0.064	7.6	0.0084211	190	0.0003368				
Polychlorinated Biphenyls (PCBs)		0.0812	1.2	0.0676667	42	0.0019333	4	0.0203	230	0.000353
Total Risk Ratio				0.135		0.004		0.024		0.001

Detected concentration greater than single chemical standard.

Detected concentration less than single chemical standard.

Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		10-12	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene	0.055	3500	1.571E-05	440000	1.25E-07				
	Anthracene	0.055	18000	3.056E-06	1000000	5.5E-08				
	Benzo(a)anthracene	0.055					11	0.005	680	8.088E-05
	Benzo(b)flouranthene	0.055					11	0.005	690	7.971E-05
	Benzo(k)fluoranthene	0.055					110	0.0005	6900	7.971E-06
	Benzo(a)pyrene	0.055					1.1	0.05	69	0.0007971
	Chrysene	0.055					1100	0.00005	69000	7.971E-07
	Dibenz(a,h)anthracene	0.055					1.1	0.05	69	0.0007971
	Fluoranthene	0.055	2400	2.292E-05	290000	1.897E-07				
	Fluorene	0.146	2400	6.083E-05	290000	5.034E-07				
	Indeno(1,2,3-cd)pyrene	0.055					11	0.005	690	7.971E-05
	Naphthalene	0.055	180	0.0003056	84	0.0006548	69	0.0007971	580	9.483E-05
	Pyrene	0.173	1800	9.611E-05	220000	7.864E-07				
RCRA Metals	Arsenic		21	0	420	0	6.7	0	640	0
	Barium		15000	0	120000	0				
	Cadmium		72	0	1600	0	22000	0	83000	0
	Chromium		230	0	15000	0	3300	0	13000	0
	Mercury		7.6	0	190	0				
Polychlorinated Biphenyls (PCBs)			1.2	0	42	0	4	0	230	0
Total Risk Ratio				0.001		0.001		0.116		0.002

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-2	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	74.7	15000	0.00498	120000	0.0006225				
	Cadmium	0.667	72	0.0092639	1600	0.0004169	22000	3.032E-05	83000	8.036E-06
	Chromium	17.3	230	0.0752174	15000	0.0011533	3300	0.0052424	13000	0.0013308
	Mercury	0.0565	7.6	0.0074342	190	0.0002974				
Polychlorinated Biphenyls (PCBs)		0.0819	1.2	0.06825	42	0.00195	4	0.020475	230	0.0003561
Total Risk Ratio				0.165		0.004		0.026		0.002

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic
Former Hudepohl Brewery
801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		12-14	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	55.3	15000	0.0036867	120000	0.0004608				
	Cadmium	0.6	72	0.0083333	1600	0.000375	22000	2.727E-05	83000	7.229E-06
	Chromium	14.6	230	0.0634783	15000	0.0009733	3300	0.0044242	13000	0.0011231
	Mercury	0.123	7.6	0.0161842	190	0.0006474				
Polychlorinated Biphenyls (PCBs)			1.2	0	42	0	4	0	230	0
Total Risk Ratio				0.092		0.002		0.004		0.001

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-3	Residential		Excavation		Residential		Excavation	
Depth (ft)		30-32	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	26.6	15000	0.0017733	120000	0.0002217				
	Cadmium	0.275	72	0.0038194	1600	0.0001719	22000	0.0000125	83000	3.313E-06
	Chromium	3.51	230	0.0152609	15000	0.000234	3300	0.0010636	13000	0.00027
	Mercury	0.0555	7.6	0.0073026	190	0.0002921				
Polychlorinated Biphenyls (PCBs)		0.07175	1.2	0.0597917	42	0.0017083	4	0.0179375	230	0.000312
Total Risk Ratio				0.088		0.003		0.019		0.001

Detected concentration greater than single chemical standard.
Detected concentration less than single chemical standard.
Assumed concentration below laboratory detection limit.

TABLE 9B - Multiple Chemical Evaluation without Arsenic

Former Hudepohl Brewery

801 West Sixth Street, Cincinnati, OH

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-4	Residential		Excavation		Residential		Excavation	
Depth (ft)		4-6	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	16.1	15000	0.0010733	120000	0.0001342				
	Cadmium	0.341	72	0.0047361	1600	0.0002131	22000	0.0000155	83000	4.108E-06
	Chromium	4.87	230	0.0211739	15000	0.0003247	3300	0.0014758	13000	0.0003746
	Mercury	0.058	7.6	0.0076316	190	0.0003053				
Polychlorinated Biphenyls (PCBs)		0.07875	1.2	0.065625	42	0.001875	4	0.0196875	230	0.0003424
Total Risk Ratio				0.100		0.003		0.021		0.001

			Non-Carcinogenic				Carcinogenic			
Boring ID		MW-4	Residential		Excavation		Residential		Excavation	
Depth (ft)		8-10	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio	Standard	Risk Ratio
Polynuclear Aromatic Hydrocarbons (PAHs)	Acenaphthene		3500	0	440000	0				
	Anthracene		18000	0	1000000	0				
	Benzo(a)anthracene						11	0	680	0
	Benzo(b)flouranthene						11	0	690	0
	Benzo(k)fluoranthene						110	0	6900	0
	Benzo(a)pyrene						1.1	0	69	0
	Chrysene						1100	0	69000	0
	Dibenz(a,h)anthracene						1.1	0	69	0
	Fluoranthene		2400	0	290000	0				
	Fluorene		2400	0	290000	0				
	Indeno(1,2,3-cd)pyrene						11	0	690	0
	Naphthalene		180	0	84	0	69	0	580	0
	Pyrene		1800	0	220000	0				
RCRA Metals	Arsenic	0	21	0	420	0	6.7	0	640	0
	Barium	17.2	15000	0.0011467	120000	0.0001433				
	Cadmium	0.292	72	0.0040556	1600	0.0001825	22000	1.327E-05	83000	3.518E-06
	Chromium	7.61	230	0.033087	15000	0.0005073	3300	0.0023061	13000	0.0005854
	Mercury	0.0505	7.6	0.0066447	190	0.0002658				
Polychlorinated Biphenyls (PCBs)		0.0749	1.2	0.0624167	42	0.0017833	4	0.018725	230	0.0003257
Total Risk Ratio				0.107		0.003		0.021		0.001

Detected concentration greater than single chemical standard.

Detected concentration less than single chemical standard.

Assumed concentration below laboratory detection limit.

APPENDIX A

DATA QUALITY OBJECTIVES
FORMER HUDEPOHL BREWERY
801 WEST SIXTH STREET
CINCINNATI, OHIO
2010

Introduction

The City of Cincinnati plans to partner with a private developer (Hudepohl Square LLC) to redevelop the Property for mixed residential/commercial use. A Phase I Property Assessment (PA) of the former Hudepohl Brewery facility (the "Property") conducted in 2009 did not recognize specific Identified Areas at the Property as defined by the Ohio Voluntary Action Program (VAP, Ohio Administrative Code [OAC] 3745-300). However, six conditions of potential concern were recognized at the Property: i) the past use of the property for industrial purposes, ii) the presence of small quantities of residual chemicals and petroleum products, iii) the presence of widespread floor staining and discoloration associated with general industrial use, iv) the past presence of electric generators and associated electrical equipment at the property (potential sources of PCBs), v) the presence of suspect ACMs in on-site buildings, and vi) the likely presence of lead-based paint (LBP) on structures given the age of the facility. Given the long term use of the Property for manufacturing purposes, the use and storage of general maintenance chemicals and lubricants at several locations at the Property, the presence of general floor discoloration from years of apparent small scale spills, leaks and drips, and the presence and poor condition/damaged state of suspect ACMs and LBP, the entire Property is considered a single Identified Area.

Two historic off-site facilities, a lumber yard located north of the Property and an historic freight warehouse/garage located to the east of the Property are also considered Identified Areas.

The City of Cincinnati has engaged ATC Associates Inc. to assist the City and Hudepohl Square LLC in conducting Phase II investigation, assisting with funding application preparation, and in planning and implementing remedial activities. Project activities will be overseen by an Ohio Certified Professional. The project team will consist of representatives from the City of Cincinnati (Department of Community Development and Office of Environmental Quality), Hudepohl Square LLC, and ATC Associates Inc.

Data quality objectives (DQOs) have been developed in accordance with OAC 3745-300-07 (Phase II property assessments) and are generally consistent with the USEPA's *Guidance on Systematic Planning Using the Data Quality Objectives Process (2006)* and the OEPA's *Data Quality Objectives Process Summary,* 2002. DQOs are discussed below.

1) Study Goals

The presence in the subsurface and within existing on-site buildings of unknown hazardous materials or petroleum products from previous on- and off-site operations may pose a health hazard to future users of the planned residential/commercial redevelopment and to construction/excavation workers during development.

The goal of the present study relative to potential environmental concerns is two-fold:

- identify on-site media which may have been impacted by residual chemicals of concern above levels that are unacceptable for the intended end use and/or construction worker exposure, and
- determine if remedial action will be required based on results of the study.

2) Data and Information Inputs

No previous analytical data is available for the Property. Baseline data is required to support the primary goals of the study. Such data will include the following:

- surface and subsurface evaluation of Identified Areas,
- quantitative chemical data for RCRA metals, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), and/or asbestos for soil,
- quantitative chemical data for VOCs and PAHs for groundwater,
- quantitative data to identify building materials containing lead, PCBs and asbestos,
- an inventory of residual chemicals, petroleum products and hazardous materials,
- site-specific geologic information including stratigraphic/lithologic data, and
- site-specific hydrogeologic information including depth to groundwater and groundwater flow direction data.

Identified Areas and corresponding Chemicals of Concern (COCs) investigated for the Phase II PA are outlined below.

Identified Area	Description	Chemicals of Concern	Laboratory Analysis
Entire Property	Historic Industrial Use	Solvents, Petroleum, Metals	Fill/debris: asbestos & lead Soil: VOCs, PAHs, TPH, Metals, PCBs Groundwater: VOCs, PAHs
	Residual Chemicals and Petroleum Products	Solvents, Petroleum, Metals	--
	Floor Staining/Discoloration	PCBs	PCBs
	Electrical Equipment; Caulking	PCBs	
	Suspect Asbestos Containing Materials	Asbestos	Asbestos by PLM
	Lead-Based Paint	Lead	Lead
Off-Site Lumber Yard	Lumber Treating	Solvents, Petroleum	VOCs, PAHs
Off-Site Warehouse	Underground Storage Tanks	Petroleum	VOCs, PAHs

Data will be acquired by soil, groundwater, and building material sample collection, laboratory analysis, and field investigation. To obtain the desired analytical detection limits and minimize bias, samples will be analyzed by a VAP-certified laboratory using USEPA SW-846 test methods, specifically Method 6010/7471 for RCRA metals, Method 8260 for VOCs, Method 8270 for PAHs, Method 8015 for TPH, and Method 8082 for PCBs. TPH will be broken down into the C_{6-12}, C_{10-20} and C_{20-34} ranges. The laboratory will be advised that method detection limits need to be below the applicable action levels.

3) Study Boundaries

The target population of the study (i.e., the set of all potential environmental samples which may be included within the study) will include soils, groundwater, and building materials located within the boundaries of the Property and specifically demarcated as Identified Areas in ATC's Phase I PA dated October 2009. The practical vertical boundary of study is the upper few feet of the water table which is located approximately 50 feet below grade in the study area. Groundwater sampling will be limited to the first groundwater encountered above bedrock.

Temporal data is not required as the concentration of COCs in on-site soils and groundwater is not anticipated to vary substantially over time, given the age of the facility, history of operations, and hydrogeologic setting.

The study area consists of a vacant industrial building and associated open areas. Practical constraints on data acquisition include limited access to basements and other indoor areas, low overhead clearances, thick concrete slabs (including buried slabs), and utility corridors. Planned boring/sampling locations may require relocation based on these constraints.

4) Study Approach

The purpose of this phase of investigation is primarily investigation for the potential presence of COCs in association with IAs. Concentrations of potential COCs will be quantified through soil sampling, sampling of on-site groundwater, building material sampling, and associated laboratory analysis.

The selection of action levels for COCs is based on two factors: i) the possible use of state funding for remedial actions, and ii) the anticipated future use of the Property for mixed residential/commercial use. State funding typically requires completion of actions in accordance with the VAP. VAP-compliant action levels will be applied in accordance with anticipated future residential public use. Accordingly, VAP generic risk-based standards for a residential scenario (soils) or unrestricted potable use (groundwater) will be used as project action levels. Action levels for materials/COCs not specifically covered under the VAP will default to appropriate federal EPA action levels for a residential/commercial exposure scenario. Action levels may be adjusted based on COC background levels, if appropriate, as specified in OAC 3745-300-07 (H).

If evidence of impact is detected, Property characteristics and anticipated future use will be evaluated to identify complete or potentially complete exposure pathways. Pathway evaluation will include the following factors:

- physical characteristics of the Property including soil and groundwater conditions,
- historical activities that may have altered initial site conditions (e.g., excavation, fill, groundwater extraction, etc.),
- COCs and contaminant characteristics,
- primary source media,
- release mechanisms and transport pathways,
- potential secondarily affected media, and
- potential receptors based on future use/activity including human and ecological populations.

5) Decision Making Process

Maximum concentrations of potential COCs in each IA will be compared to the appropriate action levels. The baseline condition (null hypothesis) is that media in the IAs have not been impacted above action levels. If maximum concentrations are not detected above action levels (including multi-chemical adjustment), then no action is required and site development may proceed. If maximum concentrations of COCs are detected above action levels, then a remedial plan will be developed to address impacted media in a manner that meets the goals of the project. Remedial measures may include excavation/off-site disposal, treatment, engineering and/or institutional controls, or other prescribed methods that achieve the project goals. Media impacted below action levels may still require further evaluation/action relative to proper handling/disposal during site development.

Data quality will be evaluated on the following bases:

- Were samples collected and handled in general accordance with the sampling plan?
- Is there evidence from review of QA/QC sample data that contaminants were introduced from outside sources during sampling or sample shipping?
- Is there evidence from review of laboratory QA/QC sample data that contaminants were introduced during sample analysis?
- Were samples analyzed by a qualified laboratory using the correct methodologies and within holding times?
- Were laboratory detection limits below selected action levels?
- Are data generally consistent with previous data?

Provided that sampling data meet the above criteria, the results will be accepted for use in the decision making process.

6) Data Acquisition Plan

Thirteen soil borings will be installed through concrete flooring/pavement at the Property. Boring/sampling locations will be strategically selected using professional judgment to investigate IAs at the Property. Nine borings will be advanced via the hydraulic push technology (using a small, hand-cart mounted system, due to spatial/access constraints) to an approximate depth of twenty feet each. Four deeper borings will be installed using a truck-mounted auger rig to 10 feet below the top of first groundwater. Soil samples from the nine hydraulic-push borings will be continuously collected. Soil samples from the three deep borings will be collected continuously for the first 30 feet then thereafter at 5-foot intervals (as feasible) to the bottom of the boring.

Two samples from each boring will be submitted to a VAP-certified laboratory and analyzed for volatile organic compounds (VOCs) by USEPA Method 8260, polynuclear aromatic hydrocarbons (PAH) by Method 8270, total petroleum hydrocarbons (TPH) by Method 8015 (full range), RCRA metals by Method 6010/7470, and PCBs by Method 8082.

Three test pits will be excavated to characterize fill materials and demolition debris in the central portion of the Property. Three samples of fill materials (generally, shallow, intermediate, and deep) will be collected from each test pit and analyzed for their asbestos and lead content.

Four 2-inch diameter monitoring wells will be located in representative areas of the Property. The screened intervals will be approximately ten feet into the top of the first encountered saturated zone. The wells will be sampled and analyzed for VOCs and PAHs. Survey and gauge data will be used to construct a potentiometric surface map and determine groundwater flow direction.

Surface wipe samples will be collected from areas of concern around the facility including heavily stained areas. The wipe samples will be collected in general accordance with the guidance documents "Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup" (EPA-560/5-86-017), and "verification of PCB Spill Cleanup by Sampling and Analysis" (EPA-560/5-85-026). Three core samples will be collected from "worst-case" areas of maximal floor staining. Samples of caulking from on-site buildings will also be collected. The samples will be submitted to a VAP-certified laboratory for analysis of PCB Aroclors (standard 7 compounds) by EPA Method 8082.

A comprehensive asbestos inspection of the Property will be performed using the requirements specified in the Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763, Subpart E).

Although lead-in-paint is typically a worker exposure issue that is addressed by contractors and exempt from Clean Ohio funding and VAP regulation, it is relevant here given: i) potential building materials grinding/re-use in association with site redevelopment (which could create lead dust and impact to soil on-site) and ii) potential future exposure of residents and occupants in the buildings.

A lead risk assessor certified by the Ohio Department of Health will conduct on-site assessment and sampling. Assessment will include testing of painted surfaces for the presence of lead-based paint using a X-Ray Fluorescence (XRF) Lead in Paint Spectrum Analyzer.

An inventory of materials such as hazardous wastes or materials that would be classified as special wastes will be completed. The purpose of the inventory will be to identify and quantify those materials that that may require special handling or disposal prior to or during demolition/renovation activities including drums and bulk material containers, polychlorinated biphenyl (PCB) containing light ballasts, fluorescent light tubes, possible mercury-containing equipment (e.g., mercury switches and thermometers), chlorofluorocarbon (CFC)-containing equipment, batteries, and oil-filled devices. No sampling/analysis will be conducted in association with the inventory.

APPENDIX B

"Mike is exactly what I look for in a consultant – he is a problem-solver that I can trust and depend on. He has provided valuable services to my firm and our clients for more than 15 years."

- A. Christian Worrell, Graydon Head & Ritchey

Highlights

- *VERY familiar with local hydrogeology and Ohio-specific regulatory framework – over 20 years of experience in area*
- *Comfortable in High-Profile Environments; Excellent Communication Skills*
- *Known for his Commitment to Service/Quality, and his Integrity*

MICHAEL J. LUESSEN, P.G./C.P.

Principal Consultant

Professional Summary

Mr. Luessen is a Principal Consultant in ATC's Cincinnati, Ohio office. He is responsible for technical and financial aspects of client management, business development and quality assurance/quality control. He has over 25 years of experience in geology, with 20 years of experience in environmental project management.

Fields of expertise include: phase I and II environmental real estate assessments, brownfields redevelopment projects inside or outside of Ohio's Voluntary Action Program, underground storage tank management, hydrogeologic assessment, remedial investigation/design and implementation, risk-based corrective actions, remedial design and implementation, RI/FS studies, and environmental regulatory compliance.

Relevant Experience

Point-of-Contact / City of Cincinnati Environmental Contract
Act as senior technical resource/QA/QC reviewer on work products prior to submittal to City; has performed related work for the City since 1995. In this capacity, has overseen hundreds of diverse projects for various City Department, including but not limited to brownfield redevelopment sites, Phase I/ II ESAs, remedial projects, building science-related work (asbestos, lead and mold), and UST-related projects. Recent projects include the Mill Creek Psychiatric Site Redevelopment (currently a Graeter's Ice Cream Factory) and the Blue Ash Airport Reconfiguration (in progress). Past Projects include the MetroWest/Queen City Barrel site in Lower Price Hill, the Kroger Parking Garage site, the Mills of Carthage Brownfield Redevelopment project. multiple BUSTR-regulated UST release investigation sites, and the SSO #700 site (a brownfield redevelopment project in Reading for MSD).

Technical Resource / RELLC / National
Act as a technical resource for a national consortium of oil companies on large, complex petroleum-related sites with co-mingled contaminant plumes. In this capacity, become exposed to cutting edge remedial technologies through petroleum company in-house technical resources. Such experience affords clients with the benefit of current knowledge and practical problem-solving in a variety of hydrogeologic settings.

Project Director / CityWest Development / Cincinnati, Ohio
Point-of-Contact for turnkey consulting services for "Citywest" Development - largest urban redevelopment project in Cincinnati – three city block area. Services included Phase I and II ESA, asbestos surveys and abatement monitoring, geotechnical engineering and materials testing. Integration of geotechnical/environmental project approaches and innovative solutions (dynamic compaction of soils / arsenic speciation) resulted in savings of over $3,000,000 to client.

Project Director / Expedited Due Diligence / Major Oil Company Merger
Project Director for expedited due diligence study related to merger of three major oil companies. Merger was the largest of its kind at that time. Rapid assessment was performed at over 300 retail petroleum sites across the U.S. Worked with clients to develop and refine work scope, managed implementation of data acquisition/compilation, and presented findings to upper management from three international petroleum firms.

Expert Witness / Legal / Ohio.
Expert Witness, Hydrogeologic-, UST- and ESA-related litigation, in Southwest Ohio.

Project Management / City of Dayton / Ohio.
Managed site assessment and waste characterization for 12 sludge ponds associated with the City of Dayton Waste Water Treatment facilities. Polychlorinated biphenyls were primary contaminant of concern. Data collection included innovative approach to facilitate sample collection in semi-solid sludge pond terrain.

Senior Technical Resource/Point-of-Contact / Bethel Schools / Ohio. Point-of-Contact for on-going study of petroleum-impacted carbonate aquifer with impact to potable water supply in southwest Ohio. Study included work plan development and presentation in public forum, working with legal counsel to develop settlement in civil suit and managing passive remedial approach to site. Approach included aquifer characterization, groundwater flow and fate/transport modeling, risk assessment and remedial plan development/implementation (passive bio-augmentation with oxygen-releasing compound.)

Brownfields Redevelopment / Private Developer / Ohio.
Managed Brownfields redevelopment project involving assessment and remedial activity associated with divestiture and redevelopment of a printing facility. Scope of study included Phase I ESA, UST removal and associated remedial activity, asbestos abatement, hydrogeologic assessment, contaminant fate-and-transport modeling, and risk assessment.

Emergency Response-Assessment / OEPA / Ohio.
Managed emergency assessment and remediation at a construction debris fill site where hazardous paint waste was deposited unknowingly by a construction firm. Waste materials had been encountered during storm sewer construction at an industrial property. ATC prepared and implemented work plans for pre-remedial assessment and site remediation, working closely with the Environmental Crimes Unit, OEPA, and attorneys for involved parties. Cleanup was completed on an expedited basis within 60 days. The impacted area was isolated, such that the fill site remained operational during assessment/remediation.

RCRA Closure / Private Client / Ohio.
Managed RCRA closure of a hazardous waste transport, storage and disposal (TSD) facility in Malta, Ohio. Industrial plant was classified as a TSD after an exceedance of holding time for waste. TSD status was removed through implementation of a remedial work plan as developed through a negotiated Consent Order with

OEPA. Storage area was closed through excavation and off-site disposal of metals-impacted soil, and associated grid sampling and analysis.

Landfill Study / City of Cincinnati / Ohio.
Managed large-scale study of environmental effects of 12 City-owned landfill sites on sediment and surface water quality of an urban stream for the City of Cincinnati. Study included site review/reconnaissance, hydraulic modeling, quarterly data collection for five consecutive quarters, risk assessment and data compilation/presentation in public forums.

Hazardous Waste Management / Private Client / Kentucky.
Managed hazardous waste remediation project that entailed the removal of 118 buried drums of paint waste from a site along a creek in Northern Kentucky. Project included preparation and implementation of a remedial work plan, associated regulatory negotiation, and interfacing with three responsible parties and their associated legal counsel.

Site Assessment / Various / National
Managed Phase I and II environmental site assessments at more than 1,000 sites throughout Ohio, Indiana, Kentucky, Illinois, Pennsylvania, and Florida.

Managed closure of underground storage tanks from more than 400 sites in Ohio.

Managed hydrogeologic assessments at more than 500 petroleum, chemical and/or industrial facilities throughout Ohio, Kentucky, Indiana, Pennsylvania and Florida

Professional Qualifications

- Member, Partners in RBCA Implementation (PIRI) Group, Ohio, 1997-99
- Expert Panel Member, EDR Due Diligence at Dawn Seminar, The Phase I Standard ASTM E 1527..."The Devil is in the Details", May, 1998, Cincinnati, Ohio
- Risk-Based Corrective Actions Seminars, 1995-96, Shell Oil Products Co. Internal Training Seminars (by Shell's Westhollow, Texas Research Group)
- Corrective Action for Containing and Controlling Ground Water Contamination, AGWSE Short Course, 1991
- OSHA Hazardous Waste Site Operations Training (40 hours), Supervisory Training (8 hours), 29 CFR 1910.120

Registrations

- Certified Professional (Ohio's Voluntary Action Program, #267)

Licenses

- Registered Professional Geologist (Kentucky, #247)

Education

Idaho State University
M.S., Geology, 1987

Northern Kentucky University
B.S., Geology, 1983

Papers and Publications

- Luessen, M.J. and Worrell, A.C., 2003, *Brownfield Redevelopment and Environmental Due Diligence – Managing the Process*, Lorman Seminar on Construction Design/Build, Cincinnati, Ohio.
- Luessen, M.J. and Worrell, A.C., 2002, *Environmental Issues in Site Development: Brownfields vs. Greenfields*, Lorman Seminar on Construction Design/Build, Cincinnati, Ohio.
- Luessen, M.J. and Gunn, M., 1999, Environmental Effects of Twelve City-Owned Landfill Sites on Sediment and Water Quality in the Mill Creek: Ramifications for Urban Streams, 8th Annual Business and Industry's Environmental Symposium, March 30 - 31, 1999, Cincinnati, Ohio, p. 368-382.
- Luessen, M.J., Krichbaum, S. and Dedoes, R., 1998, Ohio Underground Storage Tanks: BUSTR and RBCA, Volume I, 7th Annual Business and Industry's Environmental Symposium, 1998, Cincinnati, Ohio, p. 384-405.
- Luessen, M.J., Allex, M.K. and Holzel, F.R., 1995, Qualitative vs. Quantitative Data: Controls on the Accuracy of PID Field Screening in Petroleum Contamination Assessment Applications. NGWA Program for In-Situ Field Tests for Site Characterization and Remediation, 1995 Annual Convention, Indianapolis, IN, p. 51
- Luessen, M.J., 1992, Remediation of Petroleum-Impacted Soil and Groundwater in Southwestern Ohio: The Importance of Thorough Pre-Remedial Site Characterization. GSA Abstracts w/ Programs, V. 24, n. 7, 1992 National Meeting, Cincinnati, Ohio, p. A-74

Professional Activities

- National Groundwater Well Association

William Norris

Project Geologist

Professional Summary

Mr. Norris has 19 years of experience providing due diligence services; developing and conducting hydrogeologic and subsurface investigations; closing and assessing underground storage tank (UST) systems; and completing remedial actions. He is also certified to conduct asbestos inspections.

Relevant Experience

Due Diligence / Government / Cincinnati, OH
Conducted Phase I and II ESA of 30-acre Brownfields property in accordance with Ohio's Voluntary Action Program (VAP) in order to obtain state redevelopment funds.

Remediation / Real Estate / Cincinnati, OH
Delineated extent and implemented remediation of impacted soils at a Brownfields site in anticipation of redevelopment as single family housing.

UST Management / Construction / Cincinnati, OH
Supervised UST removal and completed environmental reporting on an expedited basis of an UST discovered during construction activities in downtown Cincinnati.

Asbestos Services / Government / Dayton, OH
Conducted asbestos surveys at nine industrial facilities to identify asbestos–containing materials. Oversaw completion of surveys at an additional ten facilities.

Professional Qualifications

Licenses

- Certified Asbestos Hazard Evaluation Specialist (Ohio, #32648, annually since 1994)

Training

- OSHA Health and Safety Training for Hazardous Waste Site Investigations in accordance with 29 CFR 1910.120 (1992)

Education

Bowling Green State University, Bowling Green, OH
B.S., Paleobiology

University of Cincinnati, Cincinnati, OH
M.S., Geology

APPENDIX C

LIMITATIONS OF STUDY

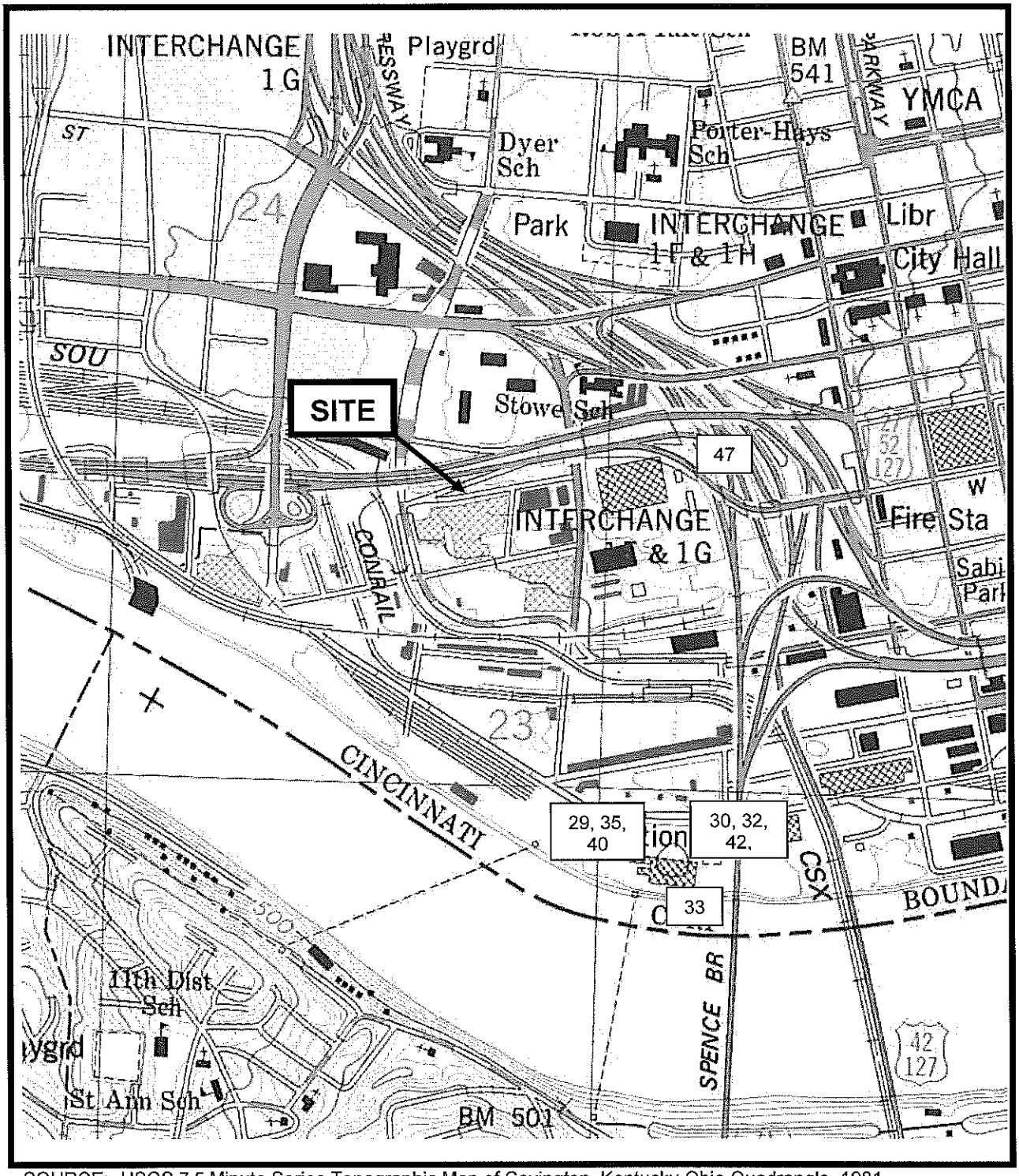
ATC has prepared this VAP Phase II Property Assessment using reasonable efforts in each phase of its work to identify environmental conditions associated with hazardous substances, wastes, and petroleum products at the Property. The methodology of this Phase II Property Assessment was consistent with the Ohio EPA Voluntary Action Program. Findings within this report are based on information presented in ATC's Phase I Property Assessment, sampling and laboratory data obtained on the days specified within this report, and from reasonably ascertainable information obtained from governing public agencies and private sources.

This report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes. ATC makes no representation or warranty that the past or current operations at the Property are or have been in compliance with all applicable federal, state, and local laws, regulations, and codes.

Subsurface conditions may differ from the conditions implied by this report in areas not tested. The results of this assessment are applicable for the time that the assessment was performed and for the locations tested. If questions arise regarding areas that were not tested by ATC, additional testing would be required for those areas.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

APPENDIX D



SOURCE: USGS 7.5 Minute Series Topographic Map of Covington, Kentucky-Ohio Quadrangle, 1981, photorevised 1987.

ODNR Well Log Location Map
VAP Phase II Property Assessment
Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

PROJECT NO.	DATE:	DRAWN BY:	REVIEWED BY:
72.05876.0884	9-22-10	WAN	Wan

SCALE: 1 in. = 1000 ft.

FIGURE: App. D

VATC

Office No. 503
Log form No. 33689
Quad. W. Cincinnati

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton Twp. Cinci Sec.

Owner I. Scherwitz & Sons
Address 569 W.6th St., Cincinnati, Ohio
Well location N.side of Carlisle Ave.

Construction Details	Pumping Test
Casing: Diam. 6" length 170 ft.	Rate:
Screen: Cook 10 ft.	Hrs:
Type of pump:	D. D.
Capacity:	S.L. 107 ft.
Depth of setting:	Date 8-10-49

Owner's Well No.
Driller Jos. Koehne Sons
Located by cb Date 1950

R s

STRATA	Depth From	Depth To
Elevation		
Muddy gravel	0	29
Muddy sand & gravel		31
Sand & pea gravel		40
Sand		45
Fine sand		53
Coarse sand		60
Sand & gravel		86
Fine sand no water		101
Fine sand water at 101'		143
Sand & gravel		153
Fine sand & pea gravel		155
Coarse sand, carbon and Gravel		158
Very coarse sand & gravel.		179

3

x 1,426,200
Y 410,300 S

* Approximate Location

548
172

OHIO WATER SUPPLY BOARD

Well Record No. 133

o. Hamilton 31 Twp. Cincinnati 2 Sec.
Vell Location West end Sta. NE cor. Size
of Ohio, River Property, Test Hole Map W. Cinci

wner Columbia (Cinci) G. & E. Co Address Cin. Gas & Elec.
riller Date

Vell Head Elev. or M. P. 480
lev. of Ground at Well

umping Test: 5 300 GPM

atic Level 471 or 433 A.D. Date 8/26/39
rmal Pumpage

ality Use

adequacy of supply

Test well # 7
Owner's Well No. or Other Designation U.S.G.S. 297

ource of Data Cinci. Gas & Elec. Co.
ted by R.J.B. Date

9931027 STRATA	DEPTH From	DEPTH To
Fill & Clay	0	25
Sandy Clay	25	34
Sand & Gravel	34	60
Sand & Gravel (rusty)	60	69
Sand, Some Gravel	69	80
Fine Sand & Gravel	80	85
Shale	85	TD

3

The water wells located at the west end station of the Columbia G. & E. are influenced by the rise & fall of the level of the Ohio River. Most of the static levels are near 440' or the level of the Pool Stage the Ohio River.

(D)

x 1,426,700
2000 x 4000
y 405000

* Chief Aquifer

29

OHIO WATER SUPPLY BOARD

Well Record No. 142

9931033

Co. Hamilton 31 Twp. Cinci 2 Sec.
Well Location W. Side of Plant Size
Map W. Cinci

Owner Cin. Gas & Elec. Co. Address Cincinnati, O.
Driller Layne-Ohio Date 6/11/36

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: ✓

Static Level ✓ Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation ~~Test Well~~ No. 2 Deep Well = 2

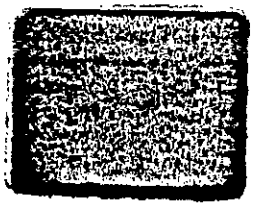
Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

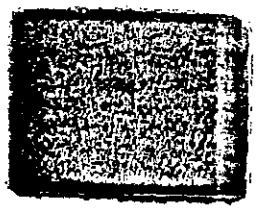
STRATA	DEPTH From	DEPTH To
Cinders, Brick, Clay, Fill	0	8
Yellow Clay	8	18
Yellow Sandy Clay	18	25
Yellow Sand	25	30
Gray Sandy Clay	30	35
Gray Sand, Gravel, Heavy Boulders	35	57
Gray Sand, Fine	57	90
Coarse Sand	90	93
Coarse Gravel	93	109
Oil at 93' Smells Like Creosote		

3

X 1,426,700
Y 4050005

* Chief Aquifer





492
109+
353
35

OHIO WATER SUPPLY BOARD

Well Record No. 136

Co. Hamilton 31 Twp. Cinci 2 Sec.
Well Location NW Corner Plant & Ohio River Size
Map W. Cinci

Owner Cin. Gas & Elec. Co. Address Cincinnat, O.
Driller Layne-Ohio Date 4/18/36

Well Head Elev. or M. P.
Elev. of Ground at Well 480

Pumping Test: ✓

Static Level ~~28~~ 28 Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 3
[illegible] Perm Well No. 2
Source of Data Layne-Ohio
Collected by Ramsay Date 9/1/42

9931038 STRATA	DEPTH From	DEPTH To
Cinders	0	2
Clay & Wood	2	5
Soft Yellow Sandy Clay	5	30
Clay & Gravel	30	38
Gravel, Water	38	50
Fine Sand, Water	50	68
Sand, Gravel, Water	68	88
Fine Sand, Water	88	93
Sand & Gravel, Water	93	103
Broken Limestone & Gravel, Water	103	112
Limerock & Shale	112	115
3		
For Permanent #2		
x 1,426,700		
y 4050005		

* Chief Aquifer

490
112
378

40

300

Office No. 529
Log form No. 9931028
Quad.

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton Twp. 31 Sec. 2

Owner Cincinnati Gas & Electric Co.
Address Cincinnati, Ohio
Well location W. end station

Construction Details	Pumping Test
Casing: Diam. length	Rate: ✓
Screen:	Hrs:
Type of pump:	D. D.
Capacity:	S.L. ✓
Depth of setting:	Date

Owner's Well No.
Driller
ted by Date

Remarks

STRATA	Depth From	Depth To
Elevation		
Yellow clay	0	4
concrete		13
fill & some sandy clay		32
soft blue clay		45
dry gravel, some boulders		57
brown sand, some water		65
brown sand, some gravel water		90
coarse sand & gravel		105
sharp gray sand		119
coarse sand & gravel		116
boulders	116	

X 1426100
Y 40[illegible]

* Approximate Location

488
116+
30

OHIO WATER SUPPLY BOARD

Well Record No. 138

31 2

Co. Hamilton Twp. Cinci Sec.

Well Location On Prop. on Ohio River Size

[illegible] to plant Map W. Cinci

Owner Union Gas & Elec. Co. Address Cincinnati, O.

Driller Layne-Ohio Date 4/24/37

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: ✓

Static Level 38' Date

Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 5 of 1937

GS 297 Perm Well No. #4

Source of Data Layne-Ohio

Collected by Ramsey Date 9/1/42

9931030 STRATA	DEPTH From	DEPTH To
Cinder Fill	0	3
Sand	3	10
Sandy Clay	10	36
Sand & Gravel, Water	36	48
Coarse Gravel & Sand, Water	48	58
Sand, Water	58	93
Coarse Gravel, Water	93	122
Broken Lime, Shale	122	125

3

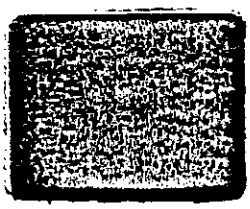
D

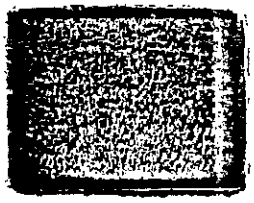
X 1,426,700

2000 2000

Y 405 000 S

* Chief Aquifer





490
122
368

32

OHIO WATER SUPPLY BOARD

Well Record No. 141

Co. Hamilton Twp. Cinci Sec.
Well Location Front & Rose Sts. Size 10"
Map W. Cinci

Owner U. G. & E. Co. Address Cincinnati, O.
Driller Layne-Ohio Date 8/30/39

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: 300 GPM 9' Draw-down

Static Level 46' 9" Date
Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 1 of 1940

Source of Data Layne-Ohio
Collected by Ramsey Date 9/1/42

9931090 STRATA	DEPTH From	DEPTH To
Cinder & Brick Fill	0	6
Clay	6	34
Dirty, Rusty Gravel Sand	34	70
Gray Sand, Gravel, Fine	70	85

X 1,426,700
Y 405000

* Chief Aquifer

OHIO WATER SUPPLY BOARD

Well Record No. 146

31

Co. Hamilton Twp. Cincinnati Sec.
Well Location West End Sta. Size 26"
Map W. Cinci

Owner Cinn.Gas & Elec.Co. Address Cincinnati,O.
Driller Layne-Ohio Date 5/9/41

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: 1080 GPM Pumping Level 69' (17)

Static Level 53' Date
Normal Pumpage 600 GPM

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation 1 Replacement

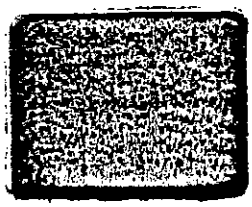
Source of Data Layne-Ohio
Corrected by Ramsey Date 8/18/42

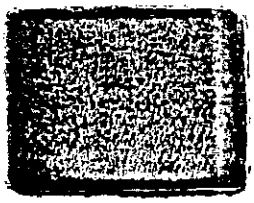
9931031 STRATA	DEPTH From	DEPTH To
Fill	0	20
Sand & Clay	20	40
Fine Sand	40	70
Coarse Sand	70	90
*Coarse Sand & Gravel	90	117

(3)

x 1,426,700
y 405,005

* Chief Aquifer





480
117
363
33

Bill Norris

From: Internet WHP [whp@epa.state.oh.us]
Sent: Thursday, October 28, 2010 10:18 AM
To: norris72@atcassociates.com
Subject: Re: DWSPA, PWS and SSA information for area around 801 W 6th Street, Cincinnati

Attachments: wanorris102810.PDF

wanorris102810.PDF (4 MB)

Bill,

The attached map shows the location of the property indicated in your email in relation to surrounding public water system wells, intakes, drinking water source protection areas and Federally-designated sole source aquifers.

The property located at 801 West 6th Street, Cincinnati, Hamilton County, is not located within one mile of a public water system well or drinking water source protection area. This property is not located over a Federally-designated sole source aquifer.

Protection area boundaries are subject to change and additional protection areas may be determined in the future.

Feel free to contact me if you have any questions or need additional information.

Craig Smith
Ohio EPA
Division of Drinking and Ground Waters
Phone: (614) 644-2752
Fax: (614) 644-2909

>>> "Bill Norris" <norris72@atcassociates.com> 10/27/2010 4:32 PM >>>
I am completing a VAP Phase II Property Assessment for the property located at 801 West 6th Street in Cincinnati, Hamilton County, Ohio, and wish to include information regarding drinking water in my report. I am writing to request information regarding locations of drinking water source protection areas, sole source aquifers, or public water systems located in the project vicinity as shown on the attached map.

Thanks in advance,

Bill Norris

William A. Norris | Staff Geologist | ATC Associates Inc. | Cincinnati
(513) 842-3961 direct | (513) 383-4051 mobile

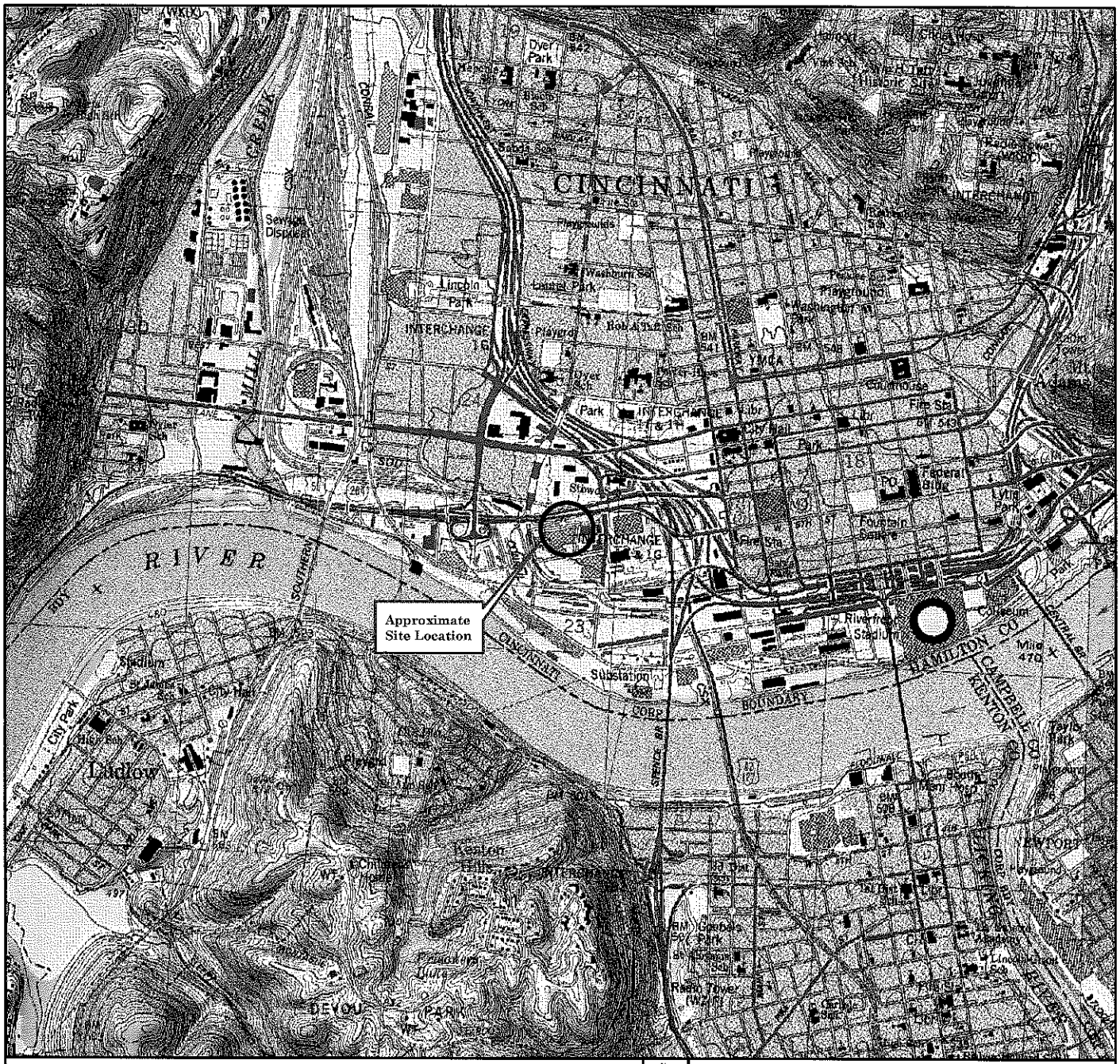
11121 Canal Road | Cincinnati, Ohio 45241

(513) 771-2112 x261 tel | (513) 782-6908 fax |
<http://www.atcassociates.com/> www.atcassociates.com

ATC is a leader in developing innovative Environmental, Geotechnical/CMT/Special Inspections and Health & Safety solutions. View our <http://www.atcassociates.com/Movie.asp> video link to learn more.
PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use

of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your computer.

Ohio Environmental Protection Agency
Unless otherwise provided by law,
this communication and any response to it
constitutes a public record.



Public Water System Wells, Intakes and Drinking Water Source Protection Areas near 801 West 6th Street Cincinnati, Hamilton County

N

Scale 0 1,000 2,000 4,000 Feet

0 0.25 0.5 1 Mile

EXPLANATION

Public Water System Intake

Public Water System Well

Sole Source Aquifer

Drinking Water Source Protection Areas - Ground Water

Protection Area (Outer line = 5-year time-of-travel)

Inner Management Zone (Inner line = 1-year time-of-travel)

Drinking Water Source Protection Areas - Surface Water

Corridor Management Zone

Emergency Management Zone

Zone of Critical Concern (Ohio River systems only)

Critical Assessment Zone (Lake Erie systems only)

Potential Influence Zone (Lake Erie systems only)

Label text reflects system type as defined in Chapter 3745-81-01 of the Ohio Administrative Code as noted below.

Community Water System | Non-Transient, Non-Community Water System | *Transient, Non-Community Water System*

Base Maps:
Covington 7.5 Minute Quadrangle Topographic Map, United States Geologic Survey
Newport 7.5 Minute Quadrangle Topographic Map, United States Geologic Survey

Site Location Provided by:
Bill Norris
Staff Geologist
ATC Associates Inc.

Ohio Environmental Protection Agency

Division of Drinking and Ground Waters

Map created on October 28, 2010

APPENDIX E

SITE-SPECIFIC OPERATING PROCEDURES

Site Health and Safety

A site-specific health and safety plan (HASP) was prepared in accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120. All members of the work crew were required to review and sign-off on the plan prior to the start of work. Safety tailgate meetings were held at the beginning of each day to discuss safety issues at the site.

The Ohio Utility Protection Service (OUPS) was notified prior to initiation of drilling/excavation activities such that public utilities could be marked at the site. Private subgrade utilities were identified by review of available as-built drawings and marked in the field by The Underground Detective of Cincinnati, Ohio, and Blood Hound, Inc. of Brownsburg, Indiana (both commercial utility locating services) using remote sensing techniques.

Soil Boring Installation

Five soil borings were advanced to depths of approximately 20 feet below grade (B-1, B-2, B-3, B-4, and B-6). Four soil borings located at higher elevations were advanced to depths between 25 and 30 feet below grade (B-5, B-10, B-11, and B-12). Three soil borings located in the basement of the new boiler house (B-7, B-8, and B-9) were installed to depths less than 5 feet due to shallow probe refusal (i.e., encountered subgrade concrete slabs and/or extensive spread-foot foundations). Five borings were installed to groundwater (depths between 53 and 62 feet) and converted to groundwater monitoring wells (MW-1 to MW-5). If the sampling probe encountered shallow refusal at a particular location, the boring was relocated several feet away from the first location and a new boring installed. A boring was relocated up to four times before attempts to relocate were abandoned. Borings which were relocated included borings B-4, B-5, B-7, B-8, and B-9. Boring B-4 was originally located near the middle of the basement of the Racking/Fermentation House. Shallow refusal was encountered approximately 3 feet below grade at three locations in the basement (apparently subgrade concrete slabs or extra wide footers). Boring B-4A (hereafter referred to as B-4) was installed at the edge of the basement outside the foundation footprint.

Test borings not converted to monitoring wells were installed using hydraulic push methods except for three borings (B-7, B-8, and B-9) which were installed by hand auger after mechanically coring through the surficial concrete slab. Monitoring wells MW-1, MW-3 and MW-4 were installed to 30 feet using a hydraulic push drill rig then completed to depth using a hollow-stem auger drill rig. Wells MW-2 and MW-5 were completed entirely using an auger drill rig. Due to access limitations to the hydraulic push sampling location for MW-1, the auger rig installed portion of the boring (and thus the actual well) was installed approximately 15 feet south of the original location. The log for MW-1 is thus a composite of two slightly off-set locations. Drilling services were provided by SCS Environmental Services Inc. of Ft. Wayne, Indiana, and Columbus, Ohio.

In order to avoid potential damage to unmarked utilities, the top five feet of each boring were dug by hand using a hand-operated bucket auger. Soil samples were collected in two foot intervals from the hand-dug excavation. The bucket was scrubbed in an Alconox® solution and rinsed with water before each sample was collected.

The hydraulic-push drill rig was equipped with a 4-foot long sampling probe lined with disposable 1" diameter PVC sample sleeves. A fresh sample sleeve was placed in the probe between each 4-foot push. To access the sample, the sample sleeve was cut open using a steel utility knife. The sample was split evenly into 2-foot samples. The completed holes were back-filled to grade with bentonite grout and capped with concrete or asphalt patch to match the surrounding pavement, if any.

Five deeper borings (MW-1 through MW-5) were installed approximately 10 feet below the top of groundwater. Soil samples from the first 30-foot interval of each boring (except MW-5) were collected continuously and divided into two-foot sampling intervals. Below 30 feet, soil samples were collected at 5-foot intervals. Boring MW-5 was sampled in 5-foot intervals from the surface to the bottom of the boring. The portions of each boring installed using hollow-stem augers were sampled using a 2-foot long steel split spoon sampler, approximately two-inches in outside diameter (OD), attached to the lower-most section of a steel rod string and driven ahead of the auger string. The split spoon was scrubbed with an Alconox® solution and rinsed with tap water between sampling events. Soil samples were collected until saturated conditions were encountered.

Soil Sampling

Soil samples were collected in two-foot intervals. Samples were collected, inspected and described by an ATC geologist. Physical characteristics of recovered soils including material composition, color, moisture content, odors, etc. were noted (see Soil Boring Logs - Appendix F). Nitrile gloves were worn by ATC's representative and changed between samples to prevent possible cross-contamination.

Soil samples were split into two aliquots. One aliquot was placed in a labeled polyethylene zip-sealed bag for soil screening for volatile organic vapors. The second sample split was placed directly into 4-ounce pre-cleaned glass jars with Teflon-lined lids. Jars were labeled with the boring ID and sample depth. Samples were immediately placed on ice in a cooler for potential laboratory analysis.

Bagged soils were screened for volatile organic vapors using a photoionization detector (PID) which measures total photoionizable organic vapors in parts per million (ppm). The PID was calibrated prior to use through the use of a 100 ppm isobutylene gas standard. Headspace measurements were taken by inserting the PID probe tip into the bag and recording the maximum reading.

Select samples were packed and shipped to the Belmont Labs facility in Englewood, Ohio (a VAP-certified laboratory) under chain of custody controls. Samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260, polynuclear aromatic hydrocarbons (PAH) by Method 8270, total petroleum hydrocarbons (TPH) by Method 8015 (full range), RCRA metals by Method 6010/7470, and/or PCBs by Method 8082.

Test Pit Sampling

Three test pits were excavated using a track-hoe to characterize fill materials and demolition debris in the central portion of the property. The excavations were supervised by an ATC environmental geologist and an ATC state-certified Asbestos Hazard Evaluation Specialist. Fill

materials were characterized and inspected for the presence of potential asbestos-containing materials. Three samples of fill materials were collected from each pit from shallow, intermediate, and deep intervals (i.e., 2', 8' and 15', respectively). Samples were collected by hand from the track-hoe bucket and placed into large woven polyester bags with labels. Subsequent splits from each sample were placed into 4-ounce pre-cleaned glass jars with Teflon-lined lids for laboratory analysis. Nitrile gloves were worn by ATC's representative and changed between samples to prevent possible cross-contamination.

One split from each test pit sample was analyzed at the ATC Cincinnati NVLAP-certified laboratory for the presence/absence of asbestos by polarized light microscopy (PLM). A second split from each sample was packed and shipped to the Belmont Labs facility in Englewood, Ohio (a VAP-certified laboratory) under chain of custody controls. Samples were analyzed for total lead by Method 6010.

Monitoring Wells

Upon completion of installation of borings MW-1 through MW-5, a 2" ID diameter PVC well casing and screen was installed in each borehole. Fifteen-foot lengths of factory-slotted (0.010 inch slot) well screen and flush-joint riser were used for well construction. The screened interval was installed approximately straddling the top of the first encountered saturated zone. Washed quartz filter sand (No.4 sized) was used to pack annular space in the wells to approximately 2.0 feet above the top of the screened interval. Sand pack placement was checked with a clean steel tape measure. The remainder of each well consisted of solid casing with a bentonite seal filling the annular space to approximately one-half foot below grade. A flush-mounted steel-sleeved protective vault was then situated above the top of casing. Each vault is held in place by an approximately two-foot by two-foot square concrete pad placed around the vault. A well cap with a keyed padlock was placed at the top of each well to limit access to the well.

Cuttings generated from well installation and sampling were collected in fourteen 55-gallon steel drums. The drums were sealed and left on-site at the completion of drilling activities for subsequent disposal by Petit Environmental of West Chester, Ohio.

Wells were developed after installation by vigorous surging with a disposable PVC bailer tied with polypropylene twine. This method has been very effective in the development of small diameter monitoring wells. Surging causes reversal of flow through the screen openings that agitates the sediments, removes the finer fraction, and then rearranges the remaining formation particles. Sediment drawn into the well casing is then removed during bailing. Wells were purged of five well volumes using the same bailers.

Three parameters were monitored during well development to assess the stabilization of purged groundwater. Stabilization was achieved when the parameters stayed within the limits listed for three consecutive readings.

- temperature ±1°C
- pH ±0.1
- specific conductivity ±3%

Hydrogeologic Data

Accurate gauging of the static water level in wells was performed using a Solinst Water Level Meter, which measures the depth to ground water from the top of the casing to the nearest one-hundredth of a foot. Water table elevations were calculated by subtracting the measured water level from surveyed reference points established at the top of the well casings. Water level measurements were used to construct a contour map of the potentiometric surface (the top of the water table) and to determine the direction of groundwater flow.

Elevation Survey

The elevations of monitoring wells were surveyed by ATC personnel using a self-leveling laser level and a rod equipped with a detector. Elevation measurements were recorded to the nearest 1/100 of a foot. Top of casing measurements were recorded for each monitoring well.

Groundwater Sampling (Bailers)

During the July 2010 sampling event, a minimum of three volumes (or until the well was bailed dry) of groundwater was purged from monitoring wells MW-1 to MW-4 prior to the collection of a groundwater sample. Wells were purged using a two-inch disposable PVC bailer tied with polypropylene twine. All wells were sampled using disposable bailers. Nitrile gloves were worn by ATC's representative and changed between samples to prevent possible cross-contamination. Purged waste water generated from well development and sampling was collected in two 55-gallon drums and temporarily stored on-site to await disposal by Petit Environmental of West Chester, Ohio.

Samples of groundwater were collected in either 40 milliliter (ml) pre-cleaned glass vials with Teflon® septums for analysis of volatile organic compounds (VOCs) or 950 ml pre-cleaned amber glass jars with Teflon®-lined lids for analysis of polynuclear aromatic hydrocarbons (PAHs). After collection samples were immediately placed on ice in a cooler. Care was taken to ensure that no headspace existed in the 40 ml vials. Samples were labeled with project name, well ID and date. Samples were packed and shipped to the Belmont Labs facility in Englewood, Ohio under chain of custody controls. Samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260 and polynuclear aromatic hydrocarbons (PAH) by Method 8270.

Groundwater Sampling (Low Flow Pump)

During the October 2010 sampling event, low flow sampling methods were utilized to collect samples from well MW-1 through MW-5. ATC used a QED SamplePro® MicroPurge® bladder pump powered by compressed nitrogen gas, QED MP10 Controller, and QED MP-20 Flow Cell meter. Groundwater levels were measured in each well prior to purging. If the column of water in the well was less than 10 feet, the bladder pump was lowered to approximately 1 foot above the bottom of the well. If the column of water was greater than 10 feet, the pump was set up to 6 feet above the bottom of the well. The pump was set to operate at a pressure of 70 psi and default Controller settings. Outflow from the pump was attached to a flow-through water meter which measured water temperature (°C), specific conductivity (mS/cm), dissolved oxygen (mg/L), and pH. Parameters were recorded each minute until stabilization was achieved.

Stabilization was achieved when the parameters stayed within the limits listed for three consecutive readings.

- temperature ±1°C
- pH ±0.1 standard unit
- specific conductivity ±3%
- dissolved oxygen ±3 mg/L

Upon stabilization the purge line was disconnected from the meter and water samples were collected. Nitrile gloves were worn by ATC's representative and changed between samples to prevent possible cross-contamination. The pump was decontaminated between wells using an Alconox® solution and rinsed with distilled water. New, unused bladders and polyethylene tubing were used for each well. Purged waste water generated from well sampling was collected in a 55-gallon drum and temporarily stored on-site to await disposal by Petit Environmental of West Chester, Ohio.

Groundwater samples from the October 2010 event were collected in 40 milliliter (ml) pre-cleaned glass vials with Teflon® septums for analysis of volatile organic compounds (VOCs) by Method 8260. After collection samples were immediately placed on ice in a cooler. Care was taken to ensure that no headspace existed in the 40 ml vials. Samples were labeled with project name, well ID and date. Samples were packed and shipped to the Belmont Labs facility in Englewood, Ohio under chain of custody controls.

PCB Wipe Sampling

Sample location IDs were marked before sampling using white spray paint. An unused paper template was then taped to the sample location surface proximal to the marked number. The template consisted of an approximately 1-inch wide border of sturdy cardstock surrounding a square opening of 100 cm^2 (i.e., 10 cm by 10 cm). Hexane solvent was applied to a piece of cotton or rayon-polyester gauze fabric and the gauze pad thoroughly wiped across the opening of the template using both vertical and horizontal strokes. The piece of gauze was folded several times during the wiping process to periodically expose a fresh absorbent surface. The sampler donned a fresh pair of protective nitrile gloves between wipe samples to prevent possible cross-contamination. Once the area was thoroughly wiped, the gauze pad was placed in a clean 4-ounce glass jar with a teflon-lined lid. The jar was labeled and placed on ice in a cooler.

Wipe samples were packed and shipped to the Belmont Labs facility in Englewood, Ohio under chain of custody controls. The samples were submitted for analysis of PCB Aroclors (standard 7 compounds) by EPA Method 8082.

PCB Core Sampling

Three core samples will be collected from "worst-case" areas based on initial wipe sample results. Core samples were collected using an electric hand-held 3-speed core drill equipped with a 3-inch diamond core bit. The coring tool was used to cut a groove into the floor surface approximately 2 centimeters deep. For each sample location two to three circular cores, often over-lapping, were drilled in the immediate area of the previous wipe location. Each core was then chipped or popped out of place using a hammer and chisel. A mist of distilled water was

sprayed into the cutting area during drilling to reduce dust emissions and keep the bit cool. The bit was cleaned between sample locations using a spray of distilled water.

The cores/chips from each location were placed in a polyethylene bag and transported to the ATC office. At the office the sample material was reduced to less than pea gravel-sized pieces by blows from a hammer while still in the polyethylene bag. The pieces were then transferred to a clean 4-ounce glass jar with a teflon-lined lid. The jar was labeled and placed in refrigeration. Samples were subsequently packed and shipped to the Belmont Labs facility in Englewood, Ohio under chain of custody controls. The samples were submitted for analysis of PCB Aroclors (standard 7 compounds) by EPA Method 8082.

PCB Caulk Sampling

Window caulk/glazing samples were collected from representative windows of on-site buildings. The samples were collected by scraping with a hand tool and the sample placed in a seal plastic bag and labeled. Ten samples were collected in total. Samples were packed and shipped to Pace Analytical Services, Inc. of Indianapolis, Indiana, under chain of custody controls. The samples were submitted for analysis of PCB Aroclors (standard 7 compounds) by EPA Method 8082.

Hazardous Materials/Special Wastes Inventory

ATC personnel documented the presence of residual materials/chemicals in safely accessible areas of the property. Specifically, a floor by floor, building by building inventory was compiled of material containers, drums, bulk material, fluorescent light ballasts, fluorescent light tubes, possible mercury-containing equipment (e.g., mercury switches and thermometers), chlorofluorocarbon (CFC)-containing equipment, batteries, and oil-filled devices. The contents of each container was noted if labeled or obvious from visual inspection. Containers/drums were not opened or otherwise handled to assess the actual content or remaining volume of material. Many drums were unlabeled and unopened rendering their contents, if any, "unknown". No sampling was conducted in association with the inventory.

QA/QC Sampling

Quality assurance/control samples were collected and analyzed in general accordance with VAP protocols. QA / QC samples included trip blanks, field blanks, equipment blanks, and blind sample duplicates.

Trip blanks consisted of sealed 40 ml vials of distilled water and transported in the coolers throughout the sampling event. The trip blanks were carried out to the field and returned unopened with sample shipment to the laboratory. Trip blanks were analyzed for VOCs by Method 8260.

Field blank samples and equipment blank samples (with the exception of PCB wipe blanks) were prepared by filling appropriate containers with distilled water available from local retail outlets. To prepare a field blank, distilled water was poured directly into a sample container in the field and immediately sealed. Non-PCB wipe equipment blanks were prepared by rinsing distilled water over sampling equipment including auger buckets, hydraulic-push sample sleeves, cleaned split-

spoon samplers, and/or nitrile gloves into appropriate sampling containers. Field and equipment blanks were analyzed for VOCs by Method 8260, PAHs by Method 8270, and/or metals by Method 6010/7470. Vials for VOC analysis were pre-preserved with a small quantity of hydrochloric acid. PCB wipe blanks were prepared by soaking a gauze pad in hexane, wiping the gauze across the surface of the paper template, and placing the pad in a clean 4-ounce glass jar with a teflon-lined lid. The wipe blank was submitted to the Belmont Labs laboratory for PCB analysis by Method 8082.

Duplicates consisted of soil/groundwater collected from the same location and depth and at the same time as the original sample. Duplicate soil and groundwater samples were chosen randomly from available samples and submitted for laboratory analysis. PCB wipe duplicate samples were chosen from sample locations with significant staining. Wipe duplicates were collected from fresh, un-sampled floor areas located less than one foot from the original sample location. Duplicate samples were analyzed for one or more of the analytical parameters (i.e., VOCs, PAHs, metals, PCBs) using the same methods referenced above. Blind duplicate samples were submitted to the laboratory with a sample ID using the following format: D-#, for soil and groundwater samples, and P-"letter" for PCB wipe samples.

Sample duplicates were evaluated using Relative Percent Difference calculated as follows:

$$\%\text{Diff} = \frac{|x_1 - x_2|}{((x_1 + x_2)/2)} \times 100$$

where X_1 is the concentration of the original sample and X_2 is the concentration of the duplicate sample.

Laboratory Detection Limits and Chemical Data Evaluation

Four methods have been proposed to deal with chemical concentrations reported as below laboratory detection limits: 1) non-detects assigned the value of the detection limit 2) non-detects assigned a value of zero, 3) non-detects assigned a value of half of the detection limit, or 4) non-detects assigned values based on statistical methods (Smith, 1991).

The last method is considered the best approach but requires much effort and is only effective if the available data meets certain criteria (e.g., the data set has a high proportion of detected concentrations). Accordingly, a statistical methodology has not been used for this study. Assuming that the chemical concentration is the same as the detection limit is generally considered too conservative to use in most cases as it gives very high risk numbers. Such a methodology is discouraged unless review of the data suggests that such high values are real. Assigning the concentration a value of zero is considered the best alternative if the available data suggests that the specific chemical is not present in the sample or at the site. Assigning a value of half the detection limit is a considered a better approach than using the full detection limit value if evidence indicates that the specific chemical may be present but a unknown concentrations.

For this study, detection limits were generally handled in the following ways relative to action levels.

Single chemical evaluation:

If the detection limit is greater than the selected action limit, then the chemical is assumed to be present in the sample above the action level unless 1) similar types of chemicals are not present above detection limits in the same sample, or 2) if the same chemical is not present in other samples at the property. If either of the latter two conditions are true, the environmental scientist should use professional judgment as to whether or not to flag the elevated detection limit as a concern relative to the action level.

Multiple chemical evaluation:

The following assumptions/procedures were utilized during the multiple chemical evaluation.

1) Each soil sample was individually evaluated for multiple chemical risk separately from all other samples.

2) Acetone and methylene chloride are regarded as laboratory artifacts and were not included in the evaluation.

3) A COC was included in the MCE if it was present in at least one individual sample. Silver and selenium were not detected in any soil samples; they were excluded from the MCE.

4) For metals and PCBs if the concentration of a single COC was below detection limits in an individual sample, the COC was assigned a value of half the detection limit. PCBs were handled in this manner due to the presence of PCBs in two soil samples and widespread presence inside of on-site buildings. Note that the term "PCBs" includes seven separate aroclor species. Therefore, the value of a single aroclor was multiplied by seven.

5) If a single PAH was included in the MCE but the concentration was below detection limits in an individual sample, the PAH was assigned a value of half the detection limit if: i) at least one other PAH was detected in the same sample, or ii) TPH was detected in the same sample. Otherwise the PAH was assigned a value of zero.

References

- Smith, R.L., 1991, *EPA Region 3 Guidance on Handling Chemical Concentration Data Near the Detection Limit in Risk Assessments*, U.S. Environmental Protection Agency, Region 3.

APPENDIX F

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: B-1
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/7/10	Hammer Wt.	N/A lbs.
Date Completed	7/7/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
BRICK PAVEMENT	0.5		0-2'	CT		1.7	N/A			
Crushed Stone **SUBGRADE** (FILL)	1.0									
Medium firm, Brown Sandy Clay (CL) **FILL**; moist			2-4'	CT		1.8*				*Sample submitted to lab for analysis
	5.0	5	4-6'	CT		1.5				
Loose, Brown, Well sorted, poorly graded, fine-grained Clayey **SAND** (SC); moist			6-8'	CT		1.2				
			8-10'	CT		1.2				
		10	10-12'	CT		1.1*				
...trace fine to medium gravel, as above			12-14'	CT		1.1				*Sample submitted to lab for analysis
	14.5		14-16'	CT		1.0				
Dense, Brown, Well-graded, fine- to coarse-grained **SAND** (SW) with Gravel; dry		15	16-18'	CT		1.1				
			18-20'	CT		1.2				
	20.0	20								
Boring terminated at 20' bgs										

TEST DATA

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/7/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

VATC

11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

WELL LOG

CLIENT **City of Cincinnati**
GEOLOGIST **Matthew Nemecek**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery**
PROJECT LOCATION **801 W. 6th Street**

BORING # **B-2**
JOB # **72.05876.0884**
DRAWN BY **MN**
APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/7/10	Hammer Wt.	N/A lbs.
Date Completed	7/7/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SLAB	0.5		0-2'	CT		--	N/A			
No Recovery			2-4'	CT		--				
	4.0									
Black Cinders and ash, medium gravel, fine to coarse-grained sand ...Crushed limestone fragments ...trace brick fragments, coal, as above		5	4-6'	CT		1.2*				*Sample submitted to lab for analysis
			6-8'	CT		--				
			8-10'	CT		1.1				
		10	10-12'	CT		--				
...dark gray and black, as above, some cinders/ash			12-14'	CT		1.3*				
...limestone fragments ...bricks		15	14-16'	CT		--				*Sample submitted to lab for analysis
			16-18'	CT		1.3				
...bricks			18-20'	CT		--				
	20.0	20								
Boring terminated at 20' bgs										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/7/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT **City of Cincinnati** | BORING # **B-3**
GEOLOGIST **Matthew Nemecek** | JOB # **72.05876.0884**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery** | DRAWN BY **MN**
PROJECT LOCATION **801 W. 6th Street** | APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/7/10	Hammer Wt.	N/A lbs.
Date Completed	7/7/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
BRICK PAVEMENT	0.5		0-2'	CT		1.4*	N/A			*Sample submitted to lab for analysis
Crushed Stone **SUBGRADE** (FILL)	1.0									
Black **CINDERS and ASH**	1.2		2-4'	CT		1.3				
Medium firm, Brown Sandy **CLAY** (CL); dry		5	4-6'	CT		1.4				
			6-8'	CT		1.4				
	8.0		8-10'	CT		1.1				
Loose, Brown, Poorly graded, Fine-grained **SAND** (SP); moist		10	10-12'	CT		1.2*				*Sample submitted to lab for analysis
			12-14'	CT		1.3				
	14.5		14-16'	CT		1.3				
Dense, Brown, Well-graded, fine- to coarse-grained **SAND** (SW) with Gravel; dry		15	16-18'	CT		1.5				
			18-20'	CT		1.5				
	20.0	20								
Boring terminated at 20' bgs										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/7/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: B-4
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/7/10	Hammer Wt.	N/A lbs.
Date Completed	7/7/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SLAB	0.5		0-2'	CT		0.0	N/A			
Loose, Brown, Fine Sand **SUBGRADE** (FILL), trace medium gravel	2.0			CT		--				
Probe refusal at 2.5' bgs at three locations		5 10 15 20								

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/7/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT **City of Cincinnati** | BORING # **B-4A**
GEOLOGIST **Matthew Nemecek** | JOB # **72.05876.0884**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery** | DRAWN BY **MN**
PROJECT LOCATION **801 W. 6th Street** | APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SLAB	1.0		0-2'	CT		1.2*	N/A			*Sample submitted to lab for analysis
Brown, Poorly Sorted, fine- to coarse-grained **SAND** (FILL), trace gravel, trace glass, trace brick			2-4'	CT		--				
Soft, Brown Sandy **CLAY** (FILL); moist, trace black cinders/ash		5	4-6'	CT		0.5*				*Sample submitted to lab for analysis
			6-8'	CT		--				
Dense, Brown, Well-graded, Fine- to Coarse-grained **SAND** (SW); trace medium gravel, dry	8.0	10	8-10'	CT		0.5				
			10-12'	CT		--				
			12-14'	CT		0.6				
		15	14-16'	CT		0.3				
			16-18'	CT		0.5				
			18-20'	CT		0.2				
Boring terminated at 20' bgs	20.0	20								

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

TEST BORING LOG

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street, Cincinnati, Ohio

BORING #: B-5
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/6/10	Hammer Wt.	N/A lbs.
Date Completed	7/6/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	TEST DATA: PID (PPM)	TEST DATA: Standard Penetration Test N, Blows/6 inches	TEST DATA: Groundwater	TEST DATA: Well Completion	Remarks
CONCRETE SIDEWALK	0.5		0-2'	CT		1.3	N/A			
Crushed Stone **SUBGRADE** (FILL)			2-4'	CT		0.7				
		5	4-6'	CT		0.7				
...black cinders/ash			6-8'	CT		0.9*				*Sample submitted to lab for analysis
...dense, brown, well-graded Sand with Gravel, moist (FILL)			8-10'	CT		--				
...bricks	9.0	10	10-12'	CT		--				
No Recovery	12.0		12-14'	CT		--				
Fill - Slag, Fine- to Coarse-grained Sand and Gravel with Clay; moist	13.0		14-16'	CT		--				
No Recovery		15	16-18'	CT		--				
			18-20'	CT		--				
	20.0	20								
...bricks	20.5		20-22'	CT		--*				
Black cinders/ash, glass, moist (FILL)	21.0		22-24'	CT		--				*Sample submitted to lab for analysis
No Recovery	24.0		24-26'	CT		--*				*Sample submitted to lab for analysis
Black cinders/ash, glass, moist (FILL)	26.0									
Probe refusal at 26' bgs										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/6/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

TEST BORING LOG

CLIENT **City of Cincinnati**
GEOLOGIST **Matthew Nemecek**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery**
PROJECT LOCATION **801 W. 6th Street, Cincinnati, Ohio**

BORING # **B-6**
JOB # **72.05876.0884**
DRAWN BY **MN**
APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/7/10	Hammer Wt.	N/A lbs.
Date Completed	7/7/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE PAVEMENT	0.5		0-2'	CT		0.0	N/A			
Crushed Stone **SUBGRADE** (FILL)	1.0									
Soft, Brown Clayey **SAND** (FILL); trace brick, trace coal, trace wood, moist	4.0		2-4'	CT		--				
Medium firm, Brown Sandy **CLAY** (FILL); moist, trace brick, trace glass		5	4-6'	CT		0.0				
			6-8'	CT		--				
			8-10'	CT		0.0				
		10	10-12'	CT		--				
Loose, Brown, Poorly-graded, fine-grained Silty **SAND** (FILL), trace fine gravel, moist	12.0		12-14'	CT		0.0				
No Recovery	14.0		14-16'	CT		--				
Dense, Brown, Well-graded, Fine- to Coarse-grained **SAND** with Gravel (SW); dry	16.0	15	16-18'	CT		0.0*				*Sample submitted to lab for analysis
No Recovery	18.0		18-20'	CT		--				
Boring terminated at 20' bgs	20.0	20								

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/7/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
O Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: B-7
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SLAB	0.5		0-2'	CT		0.1	N/A			
Loose, Brown, Well-graded, Fine- to Coarse grained **SAND** (FILL); trace fine gravel	3.0		2-3'	CT		0.3				
Probe refusal at 3' bgs (concrete)										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion ____ ft.
▼ After ____ hours ____ ft.
○ Water on Rods ____ ft.
+ At Survey ____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT **City of Cincinnati**
GEOLOGIST **Matthew Nemecek**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery**
PROJECT LOCATION **801 W. 6th Street**

BORING # **B-8**
JOB # **72.05876.0884**
DRAWN BY **MN**
APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SLAB	0.7		0-2'	CT		0.2*	N/A			*Sample submitted to lab for analysis
Loose, Brown, Well-graded, Fine- to Coarse grained Clayey **SAND** (FILL); trace fine gravel, dry	3.0		2-3'	CT		0.0				
Probe refusal at 3' bgs (concrete)										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT **City of Cincinnati**
GEOLOGIST **Matthew Nemecek**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery**
PROJECT LOCATION **801 W. 6th Street**

BORING # **B-9**
JOB # **72.05876.0884**
DRAWN BY **MN**
APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SLAB	0.7		0-2'	CT		0.3	N/A			
Loose, Brown, Well-graded, Fine- to Coarse grained Clayey **SAND** (FILL); trace fine gravel, dry			2-4'	CT		0.3				
...trace black cinders, clay	5.0	5	4-5'	CT		0.5*				*Sample submitted to lab for analysis
Probe refusal at 5' bgs (concrete)										

TEST DATA

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: B-10
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE SIDEWALK	0.5		0-2'	CT		--	N/A			
No Recovery			2-4'	CT		--				
	4.0		4-6'	CT		--*				
Black Cinders/Ash, Slag, trace brick, trace brown Sandy Clay (FILL)	6.0	5	6-8'	CT		--				*Sample submitted to lab for analysis
No Recovery			8-10'	CT		--				
		10	10-12'	CT		--				
			12-14'	CT		--				
			14-16'	CT		--				
	16.0	15	16-18'	CT		0.9				
Dense, Brown, Well-graded **SAND** (SW); some fine to coarse gravel, dry			18-20'	CT		--				
		20	20-22'	CT		1.1				
			22-24'	CT		--				
		25	24-26'	CT		--				
			26-28'	CT		--				
			28-30'	CT		--*				
	30.0	30								*Sample submitted to lab for analysis
Boring terminated at 30' bgs										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT **City of Cincinnati** | BORING # **B-11**
GEOLOGIST **Matthew Nemecek** | JOB # **72.05876.0884**
PROJECT NAME **Phase II ESA-Former Hudepohl Brewery** | DRAWN BY **MN**
PROJECT LOCATION **801 W. 6th Street** | APPROVED BY **ML**

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
Medium firm, Gray, Sandy **CLAY** with Gravel (FILL); bricks, ceramics, dry			0-2'	CT		0.5	N/A			
...trace black cinders			2-4'	CT		--				
...bricks			4-6'	CT		0.5*				
...black cinders		5	6-8'	CT		--				*Sample submitted to lab for analysis
...bricks			8-10'	CT		2.5				
...Sandy Clay, as above, moist		10	10-12'	CT		--				
...Concrete			12-14'	CT		0.0				
...Sandy Clay, as above, moist		15	14-16'	CT		--				
...as above, with bricks, moist			16-18'	CT		0.0				
			18-20'	CT		--				
		20	20-22'	CT		0.0				
...wood and brick fragments			22-24'	CT		--				
	25.0	25	24-25'	CT		--				
Probe refusal at 25' bgs										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: B-12
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/8/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	N/A ft.
Drill Foreman	SCS-Scott	Casing Diameter	N/A in.
Inspector	MN	Screen Length.	N/A ft.
Boring Method	Geoprobe	Screen Diameter	N/A in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
..Bricks, black cinders, slag			0-2'	CT		0.0	N/A			
...concrete			2-4'	CT		--				
...brick			4-6'	CT		0.0				
...bricks		5	6-8'	CT		--				
...brick, sand, bolts			8-10'	CT		0.0				
		10	10-12'	CT		--				
			12-14'	CT		--				
...Sandy Clay (Fill)			14-16'	CT		--				
		15								
...Sandy Clay, as above, moist			16-18'	CT		0.3				
...brick and concrete			18-20'	CT		--				
		20	20-22'	CT		0.0				
Loose, Brown Sand, trace slag, trace coal, trace brick (Fill)			22-24'	CT		--				
			24-26'	CT		--				
		25								
	27.0		26-27'	CT		--				*Sample submitted to lab for analysis
Probe refusal at 27' bgs										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/8/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods _____ ft.
+ At Survey _____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: MW-1
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/7/10	Hammer Wt.	N/A lbs.
Date Completed	7/8/10	Casing Length	38 ft.
Drill Foreman	SCS-Rod	Casing Diameter	2 in.
Inspector	TAB	Screen Length.	15 ft.
Boring Method	4.25" HSA	Screen Diameter	2 in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
BRICK PAVEMENT	0.5		0-2'	CT		0.0	N/A			Flush-mount concrete pad and manhole
Crushed Stone **SUBGRADE**	1.0		2-4'	CT		--				
Firm, Brown, Sandy Clay (FILL); trace brick, trace gravel, dry	2.0	5	4-6'	CT		0.0				
	4.0		6-8'	CT		0.0				PVC riser
No Recovery	6.0		8-10'	CT		0.0*				
	8.0	10	10-12'	CT		0.0*				*Sample submitted to lab for analysis
Firm, Brown, Sandy Clay (FILL); trace brick, trace gravel, dry			12-14'	CT		0.0				
	15.0	15	14-16'	CT		0.0				*Sample submitted to lab for analysis
Loose, Brown, Poorly-graded fine- to medium grained Clayey **SAND** (FILL); moist	18.0		16-18'	CT		0.0*				
Soft, Brown Sandy **CLAY** (FILL), moist, trace black cinders	20.0	20	18-20'	CT		0.0				*Sample submitted to lab for analysis
			20-22'	CT		0.0				
Medium firm, Brown, Sandy **SILT** (ML), moist			22-24'	CT		--				
Loose, Brown, Poorly-graded, Fine-grained Clayey **SAND**; moist		25	24-26'	CT		--				
			26-28'	CT		--				
Medium firm, Brown, Sandy **SILT** (ML), moist		30	28-30'	CT		--				Bentonite
	32.0		30-32'	CT		--				
Dense, Brown, Well-graded, Fine- to Medium-grained **SAND** (SW); trace fine gravel, dry			32-34'	CT		0.0				
		35	34-36'	CT		--				
			36-38'	CT		0.0				
		40	38-40'	CT		--				
			40-42'	CT		0.0				
			42-44'	CT		--		⊕		
...saturated	46.0	45	44-46'	CT		0.0				0.010 slot PVC screen
Medium dense, Brown Poorly-graded, Fine-grained **SAND** (SP) trace Silt, saturated			46-48'	CT		0.0				Filter Pack Sand
		50								
	53.0									
Boring terminated at 53' bgs. Well installed										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/7/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods 43.0 ft.
+ At Survey 42.3 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: MW-2
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/6/10	Hammer Wt.	140 lbs.
Date Completed	7/7/10	Casing Length	47 ft.
Drill Foreman	SCS-Rod	Casing Diameter	2 in.
Inspector	TAB	Screen Length.	15 ft.
Boring Method	4.25" HSA	Screen Diameter	2 in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE PAVEMENT	0.8		0-2'	HA		4.8*				Flush-mount concrete pad and manhole
VOID	1.3		2-4'	HA		--				
Sand, Brick and Cobbles (FILL)	2.0	5	4-6'	HA		0.0				*Sample submitted to lab for analysis
No Recovery	4.0		6-8'	SS		0.0*				
Fill - as above, Sand, Brick and Cobbles	7.0		8-10'	SS		0.0				*Sample submitted to lab for analysis
		10	10-12'	SS		0.0*				
Medium firm, Brown, Sandy **SILT** (FILL); very moist, debris			12-14'	SS		0.0*				*Sample submitted to lab for analysis
		15	14-16'	SS		0.0				*Sample submitted to lab for analysis
			16-18'	SS		0.0				
	21.0	20	18-20'	SS		0.0				
Loose, Brown, Well-graded **SAND** (SW)			20-22'	SS		0.0				PVC riser
	24.0		22-24'	SS		0.0				
Medium firm, Brown Clayey **SILT** (ML) with Gravel	25.0	25	24-26'	SS		0.0				
Loose, Brown, Well-graded **SAND** (SW)	26.0		26-28'	SS		0.0				
Medium firm, Brown Clayey **SILT** (ML) with Gravel	27.0		28-30'	SS		0.0				
		30								Bentonite
Medium dense, Brown, Well-graded **SAND** (SW)										
		35	35-37'	SS		0.0				
								+		
		40	40-42'	SS		0.0				
		45	45-47'	SS		0.0				
								O		
		50	50-52'	SS		0.0				Filter Pack Sand
		55								0.010 slot PVC screen
		60								
Boring terminated at 62' bgs. Monitoring well Installed	62.0									

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/6/10

Groundwater
▽ At Completion ____ ft.
▼ After ____ hours ____ ft.
○ Water on Rods 50.0 ft.
+ At Survey 40.2 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: MW-3
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/6/10	Hammer Wt.	140 lbs.
Date Completed	7//710	Casing Length	42 ft.
Drill Foreman	SCS-Rod	Casing Diameter	2 in.
Inspector	TAB	Screen Length.	15 ft.
Boring Method	4.25" HSA	Screen Diameter	2 in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics / Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE PAVEMENT	1.0		0-2'	HA		3.8	N/A			Flush-mount concrete pad and manhole
Firm, Brown Sandy **CLAY** (FILL); some fine to medium gravel, dry			2-4'	CT		2.9				
...moist, as above		5	4-6'	CT		1.9				
...coal fragments, as above			6-8'	CT		1.9				
...trace brick fragments, moist, medium plastic, as above			8-10'	CT		0.3				
		10	10-12'	CT		2.3*				*Sample submitted to lab for analysis
...soft, as above			12-14'	CT		2.1*				*Sample submitted to lab for analysis
		15	14-16'	CT		2.0				
...black cinders, trace bricks, white granular material			16-18'	CT		2.0				
Medium dense, Brown, Well-graded, Fine- to Coarse-grained Clayey **SAND** (FILL); trace bricks	19.5	20	18-20'	CT		1.8				
Medium firm, Brown, Sandy **CLAY** (FILL); black cinders, bricks	23.0		20-22'	CT		1.4				PVC riser
			22-24'	CT		0.9				Bentonite
Medium dense, Brown, Poorly-graded Silty **SAND** (SM); moist	25.0	25	24-26'	CT		--				
	27.0		26-28'	CT		--				
Dense, Brown, Well-graded **SAND** (SW) with Gravel			28-30'	CT		1.4				
Dense, Brown, Well-graded **GRAVEL** (GW)		30	30-32'	CT		0.0				*Sample submitted to lab for analysis
Dense, Brown, Well-graded, Fine- to Medium-grained **SAND** (SW); trace fine gravel, dry										*Sample submitted to lab for analysis
...organic matter		35	35-37'	SS		0.0	23-9-9-11			
		40	40-42'	SS		0.0	24-22-28-11			
...with Poorly-graded, Coarse Gravel, as above								▽		
saturated		45	45-47'	SS		-	5-10-15-24			
										Filter Pack Sand
		50	50-52'	SS		0.0	4-4-4-4			0.010 slot PVC screen
		55								
	57.0									
Boring Terminated at 57' bgs. Monitoring Well Installed										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/6/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods 43.0 ft.
+ At Survey 43.4 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

WELL LOG

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street

BORING #: MW-4
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	7/6/10	Hammer Wt.	140 lbs.
Date Completed	7/8/10	Casing Length	45 ft.
Drill Foreman	SCS-Rod	Casing Diameter	2 in.
Inspector	TAB	Screen Length.	15 ft.
Boring Method	4.25" HSA	Screen Diameter	2 in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
CONCRETE PAVEMENT	1.0		0-2'	CT		--	N/A			Flush-mount concrete pad and manhole
Loose, Brown, Well-graded, Fine- to Medium-grained **SAND** (FILL); some gravel, trace cinders, trace glass, trace slag, moist		5	2-4'	CT		--				
			4-6'	CT		1.2*				*Sample submitted to lab for analysis
			6-8'	CT		--				
		10	8-10'	CT		--*				*Sample submitted to lab for analysis
			10-12'	CT		--				
...trace brick, coal and slag, as above			12-14'	CT		0.3*				*Sample submitted to lab for analysis
	16.0	15	14-16'	CT		--				
Medium dense, Brown, Well-graded, Fine- to Coarse-grained **SAND** (SW) with Gravel, dry			16-18'	CT		--				
			18-20'	CT		--				
		20	20-22'	CT		0.6				PVC riser
			22-24'	CT		--				
		25	24-26'	CT		0.5				
			26-28'	CT		--				
			28-30'	CT		0.9				
		30	30-32'	CT		--				Bentonite
...organic matter										
...dense sand, as above, some fine to medium gravel, dry		35	35-37'	CT		0.0				
		40	40-42'	CT		0.0				
		45	45-47'	SS		0.0	10-8-40-50			
										Filter Pack Sand
saturated as above		50	50-52'	SS		0.0	28-13-9-10	⊕		
		55								0.010 slot PVC screen
	60.0	60								
Boring Terminated at 60' bgs. Monitoring Well Installed										

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 7/6/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods 50.0 ft.
+ At Survey 50.0 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

VATC
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112
Fax (513) 782-6908

WELL LOG

CLIENT: City of Cincinnati
GEOLOGIST: Matthew Nemecek
PROJECT NAME: Phase II ESA-Former Hudepohl Brewery
PROJECT LOCATION: 801 W. 6th Street, Cincinnati, Ohio

BORING #: MW-5
JOB #: 72.05876.0884
DRAWN BY: MN
APPROVED BY: ML

DRILLING and SAMPLING INFORMATION

Date Started	9/22/10	Hammer Wt.	140 lbs.
Date Completed	9/22/10	Casing Length	43 ft.
Drill Foreman	SCS-Scott	Casing Diameter	2 in.
Inspector	WAN	Screen Length.	15 ft.
Boring Method	4.25" HSA	Screen Diameter	2 in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	PID (PPM)	Standard Penetration Test N, Blows/6 inches	Groundwater	Well Completion	Remarks
ASPHALT PAVEMENT	0.3									Flush-mount concrete pad and manhole
CONCRETE	0.8									
Crushed Stone **SUBGRADE** ...trace clay, as above, dry	4.0	5	4-5'	HA		9.3	N/A			
Medium firm, Brown Silty Sandy **CLAY** (CL); moist	10.0	10	10-12'	SS		34.0	3-4-6-8			
Medium firm, Brown Clayey **SILT** (ML); dry		15	15-17'	SS		7.8	3-4-2-2			
...with fine-grained Sand	20.0	20	20-22'	SS		29.0	2-4-7-11			PVC riser
Medium dense, Brown, Well-graded, Medium-grained **SAND** (SW); dry		25								
...trace gravel, as above		30	30-32'	SS		11.4	2-7-7-11			Bentonite Grout
		35								
...interbedded silty fine-grained sand to medium/coarse-grained sand, trace gravel, dry to moist		40	40-42'	SS		13.4	8-10-11-15			
		45								Filter Pack Sand
saturated as above		50	50-52'	SS		1.3		+ O		
		55								0.010 slot PVC screen
Boring Terminated at 58' bgs. Monitoring Well Installed	58.0									

TEST DATA

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

PID
Span Pot. = 100 ppm
Cal. Date. = 9/22/10

Groundwater
▽ At Completion _____ ft.
▼ After _____ hours _____ ft.
○ Water on Rods 49.0 ft.
+ At Survey 47.6 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
HP - Hydraulic Push
MD - Mud Drilling
HA - Hand Auger
AR - Air Rotary

APPENDIX G

Well Development-Groundwater Sampling Data Sheet

Well Casing Elev. _____ (ft)
Static Water Elev. _____ (ft)

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-1 Casing Diameter: 2-inch Date: 7/9/2010

Static Water Level: 43.2 Total Depth: 52.7

Feet Water in Well: 10.4 Five Volumes: 8.5

Total Gallons Purged: 7 Purged Dry after -- minutes

Start Time: 14:53 End/Sample Time: 15:15 Rate (GPM): _____

Method: Disposable Plastic Bailer Purging Equipment: ☐ Dedicated ☑ Non-Dedicated

Volumes	Temp. (°C)	pH	Conductivity (µS)	ORP (mV)
Initial	17.4	6.03	1,868	
1	17	6.74	1760	
2	17	6.9	1820	
3	17	7.02	1809	
4	17	6.98	1819	

Calibration Information

Date: 7/9/2010 Time: _____

pH Buffer soln.	4	7	10
Cal. Reading			

Cond. Std.	
Cal. Reading	

General Information

Weather: Partly sunny, humid 80s

Observations: Brown, High turbidity

Metals Filtration: ☐ Yes ☐ No Preservation: ☐ HCL ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ Ice

Sampler: MN Signature: _____

Well Development-Groundwater Sampling Data Sheet

Well Casing Elev. _____ (ft)
Static Water Elev. _____ (ft)

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-2 Casing Diameter: 2-inch Date: 7/9/2010

Static Water Level: 40.25 Total Depth: 61.5

Feet Water in Well: 21.25 Five Volumes: 17.3

Total Gallons Purged: 18 Purged Dry after -- minutes

Start Time: 15:01 End/Sample Time: 15:45 Rate (GPM): _____

Method: Disposable Plastic Bailer Purging Equipment: ☐ Dedicated ☑ Non-Dedicated

Volumes	Temp. (°C)	pH	Conductivity (µS)	ORP (mV)
1	17.1	6.84	2,815	
2	17.1	6.86	2609	
3	17.1	6.93	2579	
4	17.3	6.95	2554	
5	17	6.93	2517	

Calibration Information

Date: 7/9/2010 Time: _____

pH Buffer soln.	4	7	10
Cal. Reading			

Cond. Std.	
Cal. Reading	

General Information

Weather: Partly sunny, humid, 80s

Observations: Brown, High turbidity

Metals Filtration: ☐ Yes ☐ No Preservation: ☐ HCL ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ Ice

Sampler: MN Signature: _____

Well Development-Groundwater Sampling Data Sheet

Well Casing Elev. _____ (ft)
Static Water Elev. _____ (ft)

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-3 Casing Diameter: 2-inch Date: 7/9/2010

Static Water Level: 43.37 Total Depth: 56

Feet Water in Well: 12.63 Five Volumes: 10.3

Total Gallons Purged: 7 Purged Dry after -- minutes

Start Time: 15:27 End/Sample Time: _____ Rate (GPM): _____

Method: Disposable Plastic Bailer Purging Equipment: ☐ Dedicated ☑ Non-Dedicated

Volumes	Temp. (°C)	pH	Conductivity (µS)	ORP (mV)
Initial	17.1	7.26	1,494	
1	16.8	7.22	1319	
2	17	7.09	1470	
3	16.5	7.23	1291	
4	16.8	7.25	1309	

Calibration Information

Date: 7/9/2010 Time: _____

pH Buffer soln.	4	7	10
Cal. Reading			

Cond. Std.	
Cal. Reading	

General Information

Weather: Partly sunny, humid 80s

Observations: Brown, High turbidity

Metals Filtration: ☐ Yes ☐ No Preservation: ☐ HCL ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ Ice

Sampler: MN Signature: _____

Well Development-Groundwater Sampling Data Sheet

Well Casing Elev. _____ (ft)
Static Water Elev. _____ (ft)

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-4 Casing Diameter: 2-inch Date: 7/9/2010

Static Water Level: 49.94 Total Depth: 59.75

Feet Water in Well: 9.81 Five Volumes: 8.0

Total Gallons Purged: 8 Purged Dry after -- minutes

Start Time: 15:58 End/Sample Time: 16:22 Rate (GPM): _____

Method: Disposable Plastic Bailer Purging Equipment: ☐ Dedicated ☑ Non-Dedicated

Volumes	Temp. (°C)	pH	Conductivity (µS)	ORP (mV)
1	18.3	7	2,640	
2	17.7	7.4	2637	
3	17.5	7.13	2624	
4	17.4	7.16	2634	
5	17	6.94	2636	

Calibration Information

Date: 7/9/2010 Time: _____

pH Buffer soln.	4	7	10
Cal. Reading			

Cond. Std.	
Cal. Reading	

General Information

Weather: Partly sunny, humid 80s

Observations: Brown, High turbidity

Metals Filtration: ☐ Yes ☐ No Preservation: ☐ HCL ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ Ice

Sampler: MN Signature: _____

ATC
Engineering Individual Solutions

Well Development-Groundwater Sampling Data Sheet

Well Casing Elev. 517.24 (ft)
Static Water Elev. 469.66 (ft)

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-5 Casing Diameter: 2-inch Date: 9/24/2010

Static Water Level: 47.58 Total Depth: 58.5

Feet Water in Well: 10.92 Five Volumes: 8.9

Total Gallons Purged: 9 Purged Dry after -- minutes

Start Time: 8:26 End/Sample Time: 9:04 Rate (GPM): 0.2

Method: Disposable Plastic Bailer Purging Equipment: ☐ Dedicated ☑ Non-Dedicated

Volumes	Temp. (°C)	pH	Conductivity (µS)	ORP (mV)
Initial	17.8	6.92	2,198	125
1	17.3	6.96	2067	108
2	16.8	6.78	2048	108
3	17.3	6.83	2106	103
4	16.8	6.8	2023	100
5	16.9	6.81	2019	99

Calibration Information

Date: 9/24/2010 Time: 7:30 AM

pH Buffer soln.	4	7	10
Cal. Reading	4.00	7.00	10.00

Cond. Std.	12,880 µS
Cal. Reading	12,880 µS

General Information

Weather: Clear, 80s, Humid

Observations: Brown, High turbidity

Metals Filtration: ☐ Yes ☐ No Preservation: ☐ HCL ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ Ice

Sampler: MN Signature:

Engineering Individual Solutions

ATC Associates Inc. - Monitoring Well Sampling Form

Site Name:	Former Hudepohl Brewery	**Sampled by:**	MN, ZH
Project No:	72.05876.0884	**Date:**	July 12, 2010

Purge Data

Well ID	Casing Diameter (inches)	Well Depth (ft)	Static Water Level (ft)	Feet of Water in Well	Three Well Volumes (gal)	Actual Purge Volume (gal)	Start Purge Time	End Purge Time	Total Purge Time (min)	Rate (GPM)	Purge Method	Observations (Color, Turbidity, Sheen)
MW-1	2	52.70	42.29	10.41	5.09	5	10:40	10:55	0:15	0.35	Bailer	Brown, Moderate turbidity
MW-2	2	61.50	40.2	21.30	10.42	11	10:35	11:01	0:26	0.42	Bailer	Brown, Moderate turbidity
MW-3	2	56.00	43.36	12.64	6.18	6.5	11:17	11:35	0:18	0.36	Bailer	Brown, Moderate turbidity
MW-4	2	59.75	49.97	9.78	4.78	5	11:38	11:50	0:12	0.42	Bailer	Brown, Moderate turbidity

Three Well Volumes: = 3 x Feet of Water in Well x .163 (2-inch) or 0.653 (4-inch) or 0.042 (1-inch)

* Well Bailed Dry

ATC Associates Inc.
Groundwater Well Low Flow Sampling Data Sheet

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-1 Casing Diameter: 2" Date: 10/5/2010

Static Water Level: 43.44 TOC (before sampling) Total Depth: 52.7 BGS

Static Water Level: 43.42 (after sampling) Feet Water in Well: 9.26

Time	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (g/L)	pH
15:15	17.34	1.71	4.85	6.62
15:16	16.36	1.72	4.12	6.63
15:17	15.42	1.73	3.77	6.63
15:18	15.67	1.72	3.63	6.62
15:19	15.66	1.73	3.57	6.62
15:20	--	--	--	--
15:21	15.68	1.73	3.48	6.62
15:22	15.65	1.73	3.44	6.62
15:23	15.62	1.73	3.34	6.62
15:24	15.64	1.73	3.31	6.62
15:25	15.51	1.73	3.24	6.62
15:26	15.55	1.72	3.20	6.63
15:27	15.71	1.72	3.16	6.63
15:28	15.81	1.72	3.12	6.64
15:29	15.65	1.72	3.08	6.63
15:30	15.58	1.72	3.04	6.63
15:31	15.46	1.72	2.97	6.63
15:32	15.40	1.72	2.92	6.63
15:33	15.38	1.72	2.91	6.64
15:34	15.37	1.73	2.90	6.64

Pump Depth: ~51.7' BGS Sample Time: 15:35 Gallons purged: ~2.5

Observations: Light brown turbidity

Sampler: Bill Norris

TOC - top of casing
BGS - below ground surface

ATC Associates Inc.
Groundwater Well Low Flow Sampling Data Sheet

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-2 Casing Diameter: 2" Date: 10/5/2010

Static Water Level: 41.35 TOC (before sampling) Total Depth: 61.50 BGS

Static Water Level: 41.31 (after sampling) Feet Water in Well: 20.15

Time	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (g/L)	pH
14:35	15.70	2.19	1.31	6.37
14:36	15.60	2.19	1.02	6.41
14:37	15.52	2.19	0.63	6.47
14:38	15.34	2.19	0.43	6.50
14:39	15.35	2.19	0.37	6.52
14:40	15.29	2.19	0.33	6.53
14:41	15.26	2.19	0.29	6.54
14:42	15.25	2.19	0.26	6.55
14:43	15.32	2.19	0.24	6.56
14:44	15.25	2.19	0.24	6.56

Pump Depth: ~55.5' BGS Sample Time: 14:45 Gallons purged: ~1.5

Observations: Light brown turbidity

Sampler: Bill Norris

TOC - top of casing
BGS - below ground surface

ATC Associates Inc.
Groundwater Well Low Flow Sampling Data Sheet

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-3 Casing Diameter: 2" Date: 10/5/2010

Static Water Level: 44.50 TOC (before sampling) Total Depth: 56.00 BGS

Static Water Level: 44.51 (after sampling) Feet Water in Well: 11.50

Time	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (g/L)	pH
12:45	16.80	1.60	3.08	6.10
12:46	16.48	1.60	2.80	6.19
12:47	16.04	1.60	2.36	6.30
12:48	15.92	1.60	2.24	6.35
12:49	15.77	1.60	2.08	6.40
12:50	15.75	1.61	1.91	6.44
12:51	15.71	1.61	1.70	6.46
12:52	15.68	1.61	1.49	6.47
12:53	15.66	1.61	1.17	6.49
12:54	15.60	1.61	1.11	6.51
12:55	15.58	1.60	1.07	6.52
12:56	15.56	1.61	1.02	6.53
12:57	15.57	1.61	0.97	6.54

Pump Depth: ~53' BGS Sample Time: 12:57 Gallons purged: ~2

Observations: Light brown turbidity

Sampler: Bill Norris

TOC - top of casing
BGS - below ground surface

ATC Associates Inc.
Groundwater Well Low Flow Sampling Data Sheet

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-4 Casing Diameter: 2" Date: 10/5/2010

Static Water Level (before sampling): 51.12 TOC Total Depth: 59.75 BGS

Static Water Level (after sampling): 51.13 Feet Water in Well: 8.63

Time	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (g/L)	pH
11:47	16.41	2.44	3.38	6.20
11:48	16.31	2.44	2.99	6.30
11:49	16.34	2.44	2.85	6.34
11:50	16.44	2.43	2.80	6.36
11:51	16.22	2.43	2.72	6.39
11:52	16.25	2.42	2.63	6.41
11:53	16.11	2.42	2.60	6.42
11:54	16.25	2.42	2.57	6.44
11:55	16.36	2.42	2.56	6.46

Pump Depth: ~58.5' BGS Sample Time: 11:56 Gallons purged: ~1.5

Observations: Light brown turbidity

Sampler: Bill Norris

TOC - top of casing
BGS - below ground surface

ATC Associates Inc.
Groundwater Well Low Flow Sampling Data Sheet

Site Name: Former Hudepohl Brewery Project Number: 72.05876.0884

Well ID: MW-5 Casing Diameter: 2" Date: 10/5/2010

Static Water Level (before sampling): 47.72 TOC Total Depth: 57.05 BGS

Static Water Level (after sampling): 47.73 Feet Water in Well: 9.33

Time	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (g/L)	pH
13:39	18.43	2.31	6.72	5.87
13:40	16.61	2.35	5.21	6.23
13:41	16.51	2.36	5.03	6.26
13:42	16.38	2.35	4.99	6.31
13:43	16.29	2.35	4.89	6.33
13:44	16.23	2.35	4.87	6.35
13:45	16.25	2.34	4.76	6.36
13:46	16.21	2.33	4.74	6.37
13:47	16.17	2.32	4.69	6.38
13:48	16.17	2.31	4.59	6.39
13:49	16.17	2.30	4.52	6.39
13:50	16.50	2.30	4.43	6.40

Pump Depth: ~56' BGS Sample Time: 13:51 Gallons purged: ~2

Observations: Light brown turbidity

Sampler: Bill Norris

TOC - top of casing
BGS - below ground surface

APPENDIX H

Prepared For:

Hudepohl Square LLC
c/o Mr. Sy Safi
GCCM Construction Services, LLC
PO Box 434
Union, Kentucky 41091-0434

City of Cincinnati
Attn: Ms. Bonnie Phillips
Office of Environmental Quality
805 Central Avenue, Suite 320
Cincinnati, Ohio 45202

Prepared By:

ATC ASSOCIATES INC.
11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112

ASBESTOS INSPECTION
FORMER HUDEPOHL BREWERY
801 WEST SIXTH STREET
CINCINNATI, OHIO
ATC PROJECT NO. 72.05876.0884

Prepared by: Michael R. Bossert, CRIS for
Project Manager

Reviewed by: Jasen M. Holton, MS, CSP
Building Science Department Manager

December 28, 2010

EXECUTIVE SUMMARY

ATC Associates Inc. (ATC) performed an inspection for asbestos-containing building materials (ACBMs) at the former Hudepohl Brewery Facility located at 801 W. Sixth Street in Cincinnati, Ohio on behalf of the Hudepohl Square LLC/City of Cincinnati during June and July, 2010. Portions of the facility were previously demolished. The facility currently consists of five buildings: i) Building #1, The New Boiler and Engine House, ii) Building #4, Racking Fermentation House, iii) Building #5, Bottling/Wash House, iv) Building #11, Old Boiler House, and v) Building #10, New Brew House Grain Receiving. According to the current owner, the cellars associated with the demolished structures are located under the shipping yard and the building's footprints. ATC could not access these cellars, and did not estimate asbestos quantities or abatement costs for these areas.

A total of 178 bulk samples were collected during this inspection. Bulk samples were collected from a total of 91 different homogeneous areas. One-hundred and thirty-one samples were analyzed, and 54 samples representing 15 types of ACBM were found to contain greater than one percent asbestos. The 15 types of ACBM identified were: 1) Pipe Insulation 2) Boiler Insulation 3) Duct Insulation 4) Boiler Breeching Insulation 5) Boiler Gasket 6) Block Boiler Insulation 7) Plaster 8) Window Glazing 9) Transite 10) Fire Door Insulation 11) Rope Gasket 12) Tank Insulation 13) Stored Asbestos Materials 14) Floor Tile 15) Floor Tile Mastic.

ATC made a diligent effort to inspect and sample suspect materials in the above listed buildings, in accordance with the approved scope of work. However, due to the deteriorated condition of portions of the buildings, these areas could not be safely accessed. Quantities of ACBMs were estimated for these areas. The roofs of Building #5 (Bottling/Wash House) and Building #4 (Racking Fermentation House) were not accessible due to building damage; asbestos quantities nor abatement costs could not be evaluated for these areas.

In accordance with the EPA's NESHAP (National Emission Standards for Hazardous Air Pollutants), materials that are considered to be ACBM must be removed prior to renovation or demolition activities that could damage them. Abatement of ACBM must be performed by a Licensed Asbestos Hazard Abatement Contractor and disposed of at a landfill licensed for accepting asbestos waste. The cost associated with the complete abatement of all regulated ACBM identified at the facility is estimated at $754,040. This is a "construction only" cost and does not include the cost associated with third party oversight, clearance air sampling, laboratory analysis or the replacement of any of the removed materials.

ATC's cost estimate is based on unit costs to remove the asbestos containing materials. If the asbestos abatement is performed as a single project and competively bid the cost could be significantly lower. Actual costs for a particular project are affected by the size of the project (including contractor mobilization and demobilization costs), number and types of containments required, location and accessibility of the site (occupied versus unoccupied), project schedule and contractor market conditions, among other factors. Significant variation in any of the above factors may cause actual costs to vary significantly from those calculated using standard unit process.

ATC made significant effort to inspect accessible areas that may contain asbestos. If demolition or renovation activities expose additional suspect asbestos-containing materials, they should be inspected, sampled, analyzed, and handled accordingly.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1

2.0 INSPECTION METHODOLOGY 2

2.1 BULK SAMPLE COLLECTION 2
2.2 LABORATORY ANALYSIS 3
2.3 SURVEY RESULTS 4

3.0 CONCLUSIONS AND RECOMMENDATIONS 5

3.1 CONCLUSIONS 5
3.2 RECOMMENDATIONS 7

ATTACHMENTS

Table 1 - Bulk Sample Data Summary
Table 2 - Inventory of Asbestos-Containing Material

Appendix A - Inspector Accreditations
Appendix B - Bulk Sample Laboratory Report
Appendix C - Site Figure

1.0 INTRODUCTION

ATC Associates Inc. (ATC) completed an inspection for asbestos-containing building materials (ACBMs) at the former Hudepohl Brewery Facility located at 801 W. Sixth Street in Cincinnati, Ohio during June and July 2009, on behalf of Hudepohl Square LL/City of Cincinnati. The work was performed in general accordance with ATC Proposal No. 072-2009-0338 dated October 9, 2009.

The purpose of the asbestos inspection was to identify ACBM in the subject building, and the potential costs associated with the abatement of such materials. Accordingly, the scope of study consisted of: 1) inspection of the building to identify those materials that may contain asbestos, 2) collection and analysis of bulk samples in accordance with the Ohio Revised Code and EPA guidelines, 3) compilation of an inventory of the locations and quantities of ACBM, 4) provision of recommendations for management of the ACBM, considering the planned demolition of the affected building, 5) preparation of potential abatement cost estimates, and 6) project documentation. This report documents our findings.

2.0 INSPECTION METHODOLOGY

Mr. Michael Bossert, an Ohio-Certified Asbestos Hazard Evaluation Specialist (Certification No. 31438), conducted a detailed inspection of accessible areas of the former Hudepohl Brewery facility during June and July 2010. A copy of the inspectors' certification is provided in Appendix A.

Upon arrival at the site, the inspector conducted a walk-through inspection of the building. Accessible areas were visually evaluated for the presence of suspect ACBMs. During the inspection, the inspector looked for suspect materials on building components such as pipes, tanks, ceilings, etc. that could contain asbestos. Suspect materials were touched to determine if they were friable, and sampling areas containing homogeneous materials were identified. A homogeneous area is defined by the U.S. Environmental Protection Agency (EPA) as an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture (Asbestos Hazard Emergency Response Act [AHERA] 40 CFR 763 Subpart E). Quantities of ACBM were determined using polarized light microscopy (visual estimation). The EPA defines friable materials as those materials that when dry may be crumbled, pulverized, or reduced to powder by hand pressure.

2.1 Bulk Sample Collection

During the building inspection, samples of suspect materials were collected in accordance with AHERA Section 763.86. For friable surfacing materials, three bulk samples were collected for each homogeneous area less than or equal to 1,000 square feet. If the homogeneous area was greater than 1,000 square feet but less than 5,000 square feet, five bulk samples were collected. For homogeneous areas that were greater than 5,000 square feet, seven bulk samples were collected. Sample locations for each homogeneous area of suspect surfacing material were determined by the inspector during the initial inspection.

Three samples were selectively collected from homogeneous areas of thermal system insulation such as pipe or insulation. Miscellaneous materials such as floor tile or ceiling tile were sampled in a manner sufficient to determine whether the material in question contained asbestos.

To avoid disturbing the material more than necessary and potentially cause the release of asbestos fibers, bulk sampling of suspect materials was performed in accordance with generally accepted procedures. Each sample was collected with a clean sampling tool and placed in a clean, sealable container and labeled with a unique sample identification number. The sample number was recorded on a Bulk Sample Log Sheet and on the sample container to permit easy identification of the sample. Supplemental information was also recorded on the Bulk Sample Log Sheet, including date of inspection, name of the inspector, the building name (or number), a brief description and location of the sample, and type of material sampled (e.g., thermal insulation, fireproofing, acoustical plaster, etc.). Upon completion of the inspection, bulk samples were submitted to ATC's NVLAP-accredited Bulk Asbestos Laboratory in Cincinnati, Ohio. A description of the bulk samples collected is included in Table 1.

2.2 Laboratory Analysis

The bulk samples were analyzed for asbestos content by polarized-light microscopy (PLM, visual estimation method) in accordance with the prescribed EPA Test Method (EPA/600/R-93/116), "Method for the Determination of Asbestos in Bulk Building Materials," 40 CFR Part 763, Appendix A to Subpart F. The PLM method (visual estimation), which the EPA currently accepts for the determination of asbestos in bulk samples, is used for the qualitative identification of six morphologically different types of asbestos fibers (i.e., chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos). The method specifies that the asbestos content in a bulk sample shall be determined by visual estimation and reported as a finite percentage (rounded to the nearest percent) within the range of 0 to 100. Minute quantities of asbestos in bulk samples may be reported as "trace" (tr), or less than one percent. The EPA and the Occupational Safety and Health Administration (OSHA) define ACM as any material that contains more than one percent asbestos. OSHA has also specified certain worker protection requirements for other building materials that have an asbestos content less than or equal to 1%.

The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percent) within the range of 0 and 100. Minute quantities of asbestos in bulk samples may be reported as "trace" or less than 1 percent (<1%). The analytical method determines the "area percent" asbestos or the percentage of the area of a microscopic field of view that is occupied by asbestos fibers.

ATC's Cincinnati Asbestos Laboratory is accredited by the National Institute of Standards and Technology (NIST) under its asbestos National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is a quality assurance program for laboratories analyzing bulk samples for asbestos content by PLM.

Samples collected from the same homogenous area were analyzed on a "stop at first positive" basis. Assume that seven bulk samples were taken from a large homogeneous area. If the first sample analyzed by the laboratory is to be greater than one percent (>1%) for asbestos fibers, there is no need to analyze the other six samples. Per AHERA, one positive sample is enough to determine that the entire homogeneous area contains ACBM. If the first sample is less than one percent (<1%) asbestos content, then further analysis is required until either a greater than one percent (>1%) sample is found or until all seven samples are analyzed. The laboratory report is included in Appendix B.

2.3 Survey Results

The results of the analyses of all building material samples that were suspected to contain asbestos are summarized in the Bulk Sample Data Sheet (Table 1). This table lists:

- a description of the material sampled,
- the location sampled,
- the identification number assigned to the sample by the inspector in the field,
- the percentage and type of asbestos present in the sample, if identified,
- the homogeneous area from which the sample was collected, and
- the condition (friable or nonfriable) of the sampled material at the time of collection.

The NESHAP category information refers to classifications of ACBM made by the EPA in the National Emission Standards for Hazardous Air Pollutants (NESHAP; 40 CFR 61). The EPA places non-friable ACBM into two categories (i.e., Category I and II). Category I non-friable ACBM means asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1 percent asbestos as determined using PLM. Category II non-friable ACBM consist of any material excluding Category I non-friable ACBM, containing more than 1 percent asbestos as determined using PLM. Friable asbestos-containing materials are identified as Regulated Asbestos-Containing Materials (RACM).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

A total of 178 bulk samples were collected from the building during this inspection. Bulk samples were collected from a total of 91 different homogeneous areas. 131 of the collected samples were analyzed, and 54 samples representing 15 homogeneous areas (material types) were found to contain greater than one percent asbestos. The following materials were sampled, analyzed, and determined to contain greater than one percent asbestos by PLM analysis.

The following materials were sampled, analyzed, and determined to contain greater than one percent asbestos by PLM analysis.

New Brew House

- Duct Insulation 250 $ft.^2$
- Pipe Insulation 735 lf
- Thermal System Debris 6,120 $ft.^2$
- Insulated Fire Doors 15 doors

Old Boiler House

- Boiler Gaskets 300 lf
- Boiler Insulation 2,000 $ft.^2$
- Boiler Breeching 2,315 $ft.^2$
- Pipe Insulation 500 lf
- Tank Insulation 800 $ft.^2$
- Thermal System Debris 12,200 $ft.^2$
- Transite Panels 1,376 $ft.^2$
- Transite Debris 300 $ft.^2$
- Insulated Fire Doors 1 door
- Plaster 700 $ft.^2$
- Window Glazing 1 window
- Stored Asbestos Waste 7 drums

New Boiler and Engine House

- Pipe Insulation 912 lf
- Boiler Insulation 150 ft.^{2}
- Duct/Breeching Insulation 1,500 ft.^{2}
- Rope Gasket Material 20 lf
- Roll Sheet Gasket Material 50 ft.^{2}
- Tank Insulation 1,875 ft.^{2}
- Roll Insulation 40 ft.^{2}
- Thermal System Debris 6,455 ft.^{2}
- Window Glazing 3.730 ft.^{2}
- Transite 164 ft.^{2}
- Transite Debris 300 ft.^{2}
- Insulated Fire Doors 8 doors

Racking Fermentation House

- Pipe Insulation 100 lf
- Wall Insulation 900 ft.^{2}
- Thermal System Debris 1,840 ft.^{2}
- Plaster 1,620 ft.^{2}
- Insulated Fire Door 4 doors
- 9-in.^{2} Floor Tile 1,840 ft.^{2}
- Window Caulking/Glazing 512 lf

Bottling/Wash House

- Pipe Insulation 625 lf
- Window Glazing 165lf

Due to unsafe building conditions, the following materials were inaccessible and assumed to contain asbestos:

New Brew House

- Pipe Insulation and Debris 600 lf

New Boiler and Engine House

- Boiler Insulation underneath Metal 2,800 ft.^{2}
- Boiler Insulation underneath Brick 600 ft.^{2}
- Tank Insulation underneath Metal 2,000 ft.^{2}

Shipping Yard

- Pipe Insulation and Debris 200 lf

ATC made a diligent effort to inspect and sample suspect materials in the above listed buildings, in accordance with the approved scope of work. However, due to the deteriorated nature of several areas inside the buildings, ATC could not enter the areas; quantities of ACBMs were estimated for these areas. These are listed at the end of *Table 2 – Asbestos Inventory – Hudepohl Brewery in Cincinnati, Ohio.*

The roofs of Building #5, Bottling/Wash House and Building #4, Racking Fermentation House were not accessible due to building damage. In addition several buildings were demolished prior to ATC's asbestos inspection. According to the current owner, the cellars associated with the demolished structures are located under the shipping yard and the building's footprints. ATC could not access these areas and did not estimate asbestos quantities or abatement costs for such areas. Additional ACMs may be located in these inaccessible building areas and could be uncovered during interior demolition and renovation activities. If suspect ACMs are uncovered, work should be stopped and an Ohio-certified Asbestos Hazard Evaluation Specialist contracted to inspect the work area and collect representative samples to proper characterize the questionable materials.

3.2 Recommendations

ACBMs identified at the site include Category I and Category II non-friable forms of asbestos as well as Regulated Asbestos Containing Materials (RACM). Category I non-friable forms of ACBM (i.e., the floor tiles and asphalt roofing) are not required to be removed prior to demolition by the abatement contractor as long as they are not rendered friable during demolition activities and building materials are not crushed for recycling. Information on the presence of these types of Category I non-friable ACM is provided so that the abatement contractor or others [e.g., the demolition contractor(s)] can complete 10-day pre-abatement/pre-demolition notification forms that request disclosure of the types and of Category I ACM that will not be removed and left in the building at demolition. These structures also cannot be intentionally burned (e.g., for training of local fire department personnel) without first removing all regulated and non-regulated ACM and obtaining any required permits. All RACM materials will require abatement prior to initiation of demolition activities.

An asbestos abatement specification document should be developed to provide the information needed for an Ohio Licensed Asbestos Hazard Abatement Contractor to bid and perform the required abatement. An Ohio Certified Asbestos Hazard Abatement Project Designer must develop the specification documentation as specified in 40 CFR 763, Subpart E, Appendix C.

ATC estimates the cost to abate the subject ACBMs and assumed ACBMs at $754,040. A detailed breakdown of this estimate is included within Table 2. Please note that this estimate is "construction only"; it does not include costs associated with specification preparation, nor abatement oversight, air monitoring, etc.

ATC made significant effort to inspect accessible areas that may contain asbestos. If demolition or renovation activities expose additional suspect asbestos-containing materials, they should be inspected, sampled, analyzed, and handled accordingly.

TABLE 1 – BULK SAMPLE DATA SUMMARY

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
The following samples were collected from the Hudepohl Brewery in Cincinnati, Ohio					
The following samples were collected from the New Brew House					
Duct Insulation (Thermal Systems Insulation)	Third Floor Office HVAC 794	01-01	10B-08761	**35% Chrysotile**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor Office HVAC 794	01-02	10B-08762	**Stopped Analysis**	Friable
Duct Insulation (Thermal Systems Insulation)	Second Floor Office	01-03	10B-08763	**Stopped Analysis**	Friable
White 2'x4' Ceiling Tile (Miscellaneous)	Third Floor Control Room	02-01	10B-08764	None Detected	Friable
White 2'x4' Ceiling Tile (Miscellaneous)	Third Floor Control Room	02-02	10B-08765	None Detected	Friable
White 2'x4' Ceiling Tile (Miscellaneous)	Second Floor Hallway	02-03	10B-08766	None Detected	Friable
Firedoor insulation (Miscellaneous)	Second Floor	NBR-01-01	!0B-17283	**15% Amosite 20% Chrysotile**	Nonfriable
Firedoor insulation (Miscellaneous)	Third Floor	NBR-01-02	!0B-17283	**Stopped Analysis**	Nonfriable
Pitch on Tank Wall (Miscellaneous)	Third Floor Control Room	03-01	10B-08767	None Detected	Nonfriable
Window Glaze (Miscellaneous)	Second Floor East Office	04-01	10B-08768	None Detected	Nonfriable
Window Glaze (Miscellaneous)	South Stairwell	04-02	10B-08769	None Detected	Nonfriable
4'x12' Stored Wallboard Sheets (Miscellaneous)	Brewing Control Room	05-01	10B-08770	None Detected	Nonfriable
4'x12' Stored Wallboard Sheets (Miscellaneous)	Brewing Control Room	05-02	10B-08771	None Detected	Nonfriable
Aircell Pipe Insulation Debris (Thermal Systems Insulation)	Southeast Room	06-01	10B-08772	**50% Chrysotile**	Friable
Aircell Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor	06-02	10B-08773	**Stopped Analysis**	Friable
Pipe Fitting Insulation (Thermal Systems Insulation)	Southeast Room	07-01	10B-08774	**35% Chrysotile**	Friable
Pipe Fitting Insulation (Thermal Systems Insulation)	Ground Floor	07-02	10B-08775	**Stopped Analysis**	Friable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Ground Floor	08-01	10B-08776	**20% Chrysotile**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Membrane Over Concrete (Miscellaneous)	Roof	71-01	10B-10125	None Detected	Nonfriable
Asphalt Shingle Layer (Miscellaneous)	Roof	72-01	10B-10126	**5.0% Chrysotile**	Nonfriable
Pitch Penetration Flashing (Miscellaneous)	Roof	73-01	10B-10127	None Detected	Nonfriable
The following samples were collected from the Old Boiler House					
Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor Scattered on Floor	09-01	10B-08777	**20% Chrysotile**	Friable
Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor Scattered on Floor	09-02	10B-08778	**Stopped Analysis**	Friable
Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor Scattered on Floor	09-03	10B-08779	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Ground Floor South of Boiler	10-01	10B-08780	**3% Amosite 8% Chrysotile**	Friable
Boiler Breeching (Thermal Systems Insulation)	Ground Floor South of Boiler	10-02	10B-08781	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Ground Floor South of Boiler	10-03	10B-08782	**Stopped Analysis**	Friable
Mud Caulk on Boilers (Thermal Systems Insulation)	Seams on the Boilers	11-01	10B-08783	None Detected	Friable
Mud Caulk on Boilers (Thermal Systems Insulation)	Seams on the Boilers	11-02	10B-08784	None Detected	Friable
Mud Caulk on Boilers (Thermal Systems Insulation)	Seams on the Boilers	11-03	10B-08785	None Detected	Friable
Woven Boiler Gasket (Thermal Systems Insulation)	South Boiler Door	12-01	10B-08786	**60% Chrysotile**	Friable
Rope Boiler Gasket (Thermal Systems Insulation)	South Boiler Door	13-01	10B-08787	**85% Chrysotile**	Friable
Block Boiler Insulation (Thermal Systems Insulation)	North Boiler	14-01	10B-08788	**40% Chrysotile**	Friable
Interior Boiler Brick (Miscellaneous)	Interior of the Boilers	15-01	10B-08789	None Detected	Nonfriable
Interior Boiler Brick (Miscellaneous)	Interior of the Boilers	15-02	10B-08790	None Detected	Nonfriable
Interior Boiler Brick (Miscellaneous)	Interior of the Boilers	15-03	10B-08791	None Detected	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Grey One-layer Plaster (Surfacing)	South Wall	16-01	10B-08792	None Detected	Friable
Grey One-layer Plaster (Surfacing)	South Wall	16-02	10B-08793	**2.5% Chrysotile**	Friable
Grey One-layer Plaster (Surfacing)	South Wall	16-03	10B-08794	None Detected	Friable
Cord and Tar Pipe Insulation (Thermal Systems Insulation)	Inside Stairwell	17-01	10B-08795	None Detected	Nonfriable
Cord and Tar Pipe Insulation (Thermal Systems Insulation)	Inside Stairwell	17-02	10B-08796	None Detected	Nonfriable
Cord and Tar Pipe Insulation (Thermal Systems Insulation)	Inside Stairwell	17-03	10B-08797	None Detected	Nonfriable
Cementitious pipe insulation (Thermal Systems Insulation)	Second Floor catwalk area	OBH-01-01	10B-17285	**35% Chrysotile**	Friable
Cementitious pipe insulation (Thermal Systems Insulation)	Second Floor catwalk area	OBH-01-02	10B-17286	**Stopped Analysis**	Friable
Cementitious pipe insulation (Thermal Systems Insulation)	Second Floor catwalk area	OBH-01-03	10B-17287	**Stopped Analysis**	Friable
Tank insulation (Thermal Systems Insulation)	Second Floor catwalk area	OBH-02-01	10B-17288	**15% Chrysotile**	Friable
Tank insulation (Thermal Systems Insulation)	Second Floor catwalk area	OBH-02-01	10B-17289	**Stopped Analysis**	Friable
Tank insulation (Thermal Systems Insulation)	Second Floor catwalk area	OBH-02-01	10B-17290	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Second Floor	18-01	10B-08798	**35% Chrysotile**	Friable
Boiler Breeching (Thermal Systems Insulation)	Second Floor	18-02	10B-08799	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Second Floor	18-03	10B-08800	**Stopped Analysis**	Friable
Exterior Plaster (Surfacing)	North Wall	74-01	10B-10128	None Detected	Nonfriable
The following samples were collected from the Roofs of the Old and New Boiler Houses					
Window Glazing (Miscellaneous)	Sky Light	19-01	10B-08801	**3.5% Chrysotile**	Nonfriable
Corrugated Transite Debris (Miscellaneous)	Roof Deck	20-01	10B-08802	**20% Chrysotile**	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Flat Cooling Tower Panels (Miscellaneous)	Cooling Tower	21-01	10B-08803	**17% Chrysotile**	Nonfriable
Fire Door Insulation (Miscellaneous)	Elevator Mechanical Room Door	22-01	10B-08804	**60% Chrysotile**	Friable
Window Glazing (Miscellaneous)	Elevator Mechanical Room	23-01	10B-08805	**2% Chrysotile**	Nonfriable
The following samples were collected from the New Boiler and Engine House					
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room Floor	24-01	10B-08738	**20% Amosite 10% Chrysotile**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room Floor	24-02	10B-08739	**Stopped Analysis**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room Floor	24-03	10B-08740	**Stopped Analysis**	Friable
Boiler Insulation (Thermal Systems Insulation)	Boiler Room	25-01	10B-08741	**50% Chrysotile**	Friable
Boiler Insulation (Thermal Systems Insulation)	Boiler Room	25-01	10B-08742	**Stopped Analysis**	Friable
Boiler Insulation hermal Systems Insulation)	Boiler Room	25-01	10B-08743	**Stopped Analysis**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room South Wall	26-01	10B-08744	**20% Chrysotile 15% Amosite**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room West Wall	26-02	10B-08745	**Stopped Analysis**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room West Wall	26-03	10B-08746	**Stopped Analysis**	Friable
Tar & Cork Insulated Pipes (Thermal Systems Insulation)	Boiler Room West Wall	27-01	10B-08747	None Detected	Nonfriable
Tar & Cork Insulated Pipes (Thermal Systems Insulation)	Boiler Room West Wall	27-02	10B-08748	None Detected	Nonfriable
Tar & Cork Insulated Pipes (Thermal Systems Insulation)	Boiler Room West Wall	27-03	10B-08749	None Detected	Nonfriable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Engineer Room South Wall	30-01	10B-08756	**60% Chrysotile**	Friable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Engineer Room South Wall	30-02	10B-08757	**Stopped Analysis**	Friable
Layered Paper Pipe Insulation Thermal Systems Insulation)	Engineer Room South Wall	30-03	10B-08758	**Stopped Analysis**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Window Glaze (Miscellaneous)	East Window	31-01	10B-08759	**3.0% Chrysotile**	Friable
Paper under Fiberglass Insulation (Thermal Systems Insulation)	Boiler Room	32-01	10B-08760	None Detected	Friable
Transite Ceiling Panels (Miscellaneous)	Basement By Stairwell	33-01	10B-08806	**8.0% Amosite**	Nonfriable
Rope Gasket (Miscellaneous)	By the 5' Tank On the Floor	34-01	10B-08807	**90% Chrysotile**	Friable
Tank Insulation (Thermal Systems Insulation)	5" Vertical Tanks	35-01	10B-08808	**45% Chrysotile 20% Amosite**	Friable
Tank Insulation (Thermal Systems Insulation)	5" Vertical Tanks	35-02	10B-08809	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	7" Vertical Tanks	36-01	10B-08810	**20% Chrysotile 10% Amosite**	Friable
Tank Insulation (Thermal Systems Insulation)	7" Vertical Tanks	36-02	10B-08811	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	7" Vertical Tanks	36-03	10B-08812	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	12" Horizontal Tanks	37-01	10B-08813	**35% Chrysotile 12% Amosite**	Friable
Tank Insulation (Thermal Systems Insulation)	12" Horizontal Tanks	37-02	10B-08814	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	12" Horizontal Tanks	37-03	10B-08815	**Stopped Analysis**	Friable
Tar and Cork Tank Insulation (Miscellaneous)	Basement	38-01	10B-08816	None Detected	Nonfriable
Tar and Cork Tank Insulation (Miscellaneous)	Second Floor	38-02	10B-17291	**10% Chrysotile**	Nonfriable
Tar and Cork Tank Insulation (Miscellaneous)	Second Floor	38-03	10B-17291	**Stopped Analysis**	Nonfriable
Tar Tank Insulation (Thermal Systems Insulation)	Basement 9' Tank	39-01	10B-08817	**7.0% Amosite**	Nonfriable
Tar Tank Insulation (Thermal Systems Insulation)	Basement 9' Tank	39-02	10B-08818	**Stopped Analysis**	Nonfriable
Tar Tank Insulation (Thermal Systems Insulation)	Basement 9' Tank	39-03	10B-08819	**Stopped Analysis**	Nonfriable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Second Floor East Restroom	40-01	10B-08820	None Detected	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Air-cell Paper Pipe Insulation (Thermal Systems Insulation)	Second Floor Restroom Above Ceiling Tiles	41-01	10B-08821	**40% Chrysotile**	Friable
Mud Fitting Insulation (Thermal Systems Insulation)	Second Floor Restroom Above Ceiling Tiles	42-01	10B-08822	**25% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor Northwest Window	43-01	10B-08823	**3.5% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor Northwest Window	43-02	10B-08824	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Third Floor Northwest Window	43-03	10B-08825	**Stopped Analysis**	Friable
Yellow Rope Gasket on Spool (Miscellaneous)	Third Floor by Work Bench	44-01	10B-08826	None Detected	Nonfriable
Tank Insulation (Thermal Systems Insulation)	Third Floor Locker Rm 7' Vertical Tank	45-01	10B-08827	**30% Chrysotile**	Friable
Tank Insulation (Thermal Systems Insulation)	Third Floor Locker Rm 7' Vertical Tank	45-02	10B-08828	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	Third Floor Locker Rm 7' Vertical Tank	45-03	10B-08829	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Third Floor Locker Room	46-01	10B-08830	**3.5% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor Locker Room	46-02	10B-08831	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Third Floor Locker Room	46-03	10B-08832	**Stopped Analysis**	Friable
Black Transite Panel (Miscellaneous)	Third Floor Elevator Room	47-01	10B-08833	**20% Chrysotile**	Nonfriable
Rolled Stored Insulation (Thermal Systems Insulation)	Third Floor By 7' Tank	48-01	10B-08834	**45% Chrysotile**	Friable
Black Transite Debris (Miscellaneous)	Third Floor Breaker Room	49-01	10B-08835	**8.0% Chrysotile**	Nonfriable
Gasket Sheeting (Miscellaneous)	Third Floor Work Room (Scattered)	50-01	10B-08836	**20% Chrysotile**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor	51-01	10B-08837	**25% Chrysotile**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor	51-02	10B-08838	**Stopped Analysis**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor	51-03	10B-08839	**Stopped Analysis**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Rope Gasket (Miscellaneous)	Third Floor Stored on Floor (Scattered)	52-01	10B-08840	None Detected	Friable
Rope Gasket (Miscellaneous)	Third Floor Stored on Floor (Scattered)	53-01	10B-08841	**50% Chrysotile**	Friable
Stored Pipe Jacketing (Miscellaneous)	Third Floor on Floor (Scattered)	54-01	10B-08842	None Detected	Friable
Round Transite Lid (Miscellaneous)	Third Floor Over Hole in Floor	55-01	10B-08843	**17% Chrysotile**	Nonfriable
Stored Thermal Insulation (Thermal System Insulation)	Fourth Floor on Floor (Scattered)	61-01	10B-08862	None Detected	Friable
Stored Air-cell Insulation (Thermal System Insulation)	Fourth Floor on Floor (Scattered)	62-01	10B-088863	**55% Chrysotile**	Friable
Stored Vermiculite Insulation (Thermal System Insulation)	Fourth Floor on Floor (Scattered)	63-01	10B-08864	None Detected	Friable
Pitch Layer (Miscellaneous)	Roof Top Layer	65-01	10B-10119	None Detected	Nonfriable
Brown Cellulose Layer (Miscellaneous)	Roof Second Layer	66-01	10B-10120	None Detected	Friable
Flashing North Wall (Miscellaneous)	North Wall Second Layer	67-01	10B-10121	None Detected	Nonfriable
The following samples were collected from the Old Boiler House					
1-Layer Plaster (Surfacing)	West Open Room	28-01	10B-08750	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Open Room	28-02	10B-08751	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Open Room	28-03	10B-08752	None Detected	Nonfriable
1-Layer Plaster on Chicken Wire (Surfacing)	Basement	29-01	10B-08753	**50% Chrysotile**	Friable
1-Layer Plaster on Chicken Wire (Surfacing)	Basement	29-02	10B-08754	**Stopped Analysis**	Friable
1-Layer Plaster on Chicken Wire (Surfacing)	Basement	29-03	10B-08755	**Stopped Analysis**	Friable
Pitch Layer (Miscellaneous)	Roof Top Layer	68-01	10B-10122	None Detected	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Light Weight Concrete Layer (Miscellaneous)	Roof Second Layer	69-01	10B-10123	None Detected	Nonfriable
Flashing North Wall (Miscellaneous)	South Wall	70-01	10B-10124	None Detected	Nonfriable
The following samples were collected from the Racking/Formation House					
1-Layer Plaster (Surfacing)	West Wall	56-01	10B-08844	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Wall	56-02	10B-08845	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Wall	56-03	10B-08846	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East Wall	56-04	10B-08847	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East Wall	56-05	10B-08848	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Basement East Wall	56-06	10B-08849	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Basement North Wall	56-07	10B-08850	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	South Wall Storage	57-01	10B-08851	**7.0% Chrysotile**	Nonfriable
1-Layer Plaster (Surfacing)	South Wall Storage	57-02	10B-08852	**Stopped Analysis**	Nonfriable
1-Layer Plaster (Surfacing)	South Wall Storage	57-03	10B-08853	**Stopped Analysis**	Nonfriable
1-Layer Plaster (Surfacing)	Ceiling Storage	58-01	10B-08855	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Ceiling Storage	58-02	10B-08856	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Ceiling Storage	58-03	10B-08857	None Detected	Nonfriable
Pink/Rust Colored Cementitious Insulation (Thermal Systems Insulation)	3rd Floor on Floor	RF-01-01	10B-17293	None Detected	Friable
Pink/Rust Colored Cementitious Insulation (Thermal Systems Insulation)	3rd Floor on Floor	RF-01-02	10B-17294	None Detected	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Pink/Rust Colored Cementitious Insulation (Thermal Systems Insulation)	3rd Floor on Floor	RF-01-03	10B-17295	None Detected	Friable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Basement Dock Area	59-01	10B-08858	**5.0% Chrysotile**	Nonfriable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Basement Dock Area	59-02	10B-08859	**Stopped Analysis**	Nonfriable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Basement Dock Area	59-03	10B-08860	**Stopped Analysis**	Nonfriable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Second Floor South Wall	59-04	10B-10118	**5.0% Chrysotile**	Nonfriable
Window Glaze (Miscellaneous)	Basement North wall	60-01	10B-088861	**3.0% Chrysotile**	Friable
The following samples were collected from the Courtyard Area.					
Fire Hose Insulation (Miscellaneous)	Test Pit Middle of Field	64-01	10B-09445	None Detected	Nonfriable
The following samples were collected from the Racking Formation House					
Exterior Plaster (Surfacing)	East Exterior Wall	75-01	10B-10129	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East wall Debris South Wall	76-01	10B-10130	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East wall Debris South Wall	76-02	10B-10131	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Wall under Cork Wall	77-01	10B-10132	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Wall under Cork Wall	77-02	10B-10133	None Detected	Nonfriable
Fire Door Insulation (Miscellaneous)	South Room Entrance	78-01	10B-10134	**60% Chrysotile**	Nonfriable
9"x9" Dark Grey Floor Tile (Miscellaneous)	South Room Floor	79-01A	10B-10135A	**1.5% Chrysotile**	Nonfriable
9"x9" Dark Grey Floor Tile Mastic (Miscellaneous)	South Room Floor	79-01B	10B-10135B	**1.5% Chrysotile**	Nonfriable
Window Glaze (Miscellaneous)	South Window	80-01	10B-10136	None Detected	Friable
Window Glaze (Miscellaneous)	South Stairwell Third Floor	80-02	10B-10137	None Detected	Friable
Window Glaze (Miscellaneous)	South Window Fourth Floor	80-03	10B-10138	None Detected	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Wallboard (Miscellaneous)	South Room East Wall	81-01	10B-10139	None Detected	Friable
Thermal System Insulation Debris (Thermal System Insulation)	Third Floor Main Room	82-01	10B-10140	None Detected	Friable
Thermal System Insulation Debris (Thermal System Insulation)	Third Floor Main Room	82-02	10B-10141	None Detected	Friable
Thermal System Insulation Debris (Thermal System Insulation)	Third Floor South Stairwell	82-03	10B-10142	None Detected	Friable
Window Glaze (Miscellaneous)	Second Floor	83-01	10B-10143	**15% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor	83-02	10B-10144	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Fourth Floor	83-03	10B-10145	**Stopped Analysis**	Friable
Pitch Layer (Miscellaneous)	Roof Top Layer	84-01	10B-10146	None Detected	Nonfriable
Roof Flashing (Miscellaneous)	Roof Flashing	85-01	10B-10147	None Detected	Nonfriable
Window Caulk (Miscellaneous)	Dock Office	92-01	10B-10166	**5.0% Chrysotile**	Friable
Window Caulk (Miscellaneous)	Dock Office	92-02	10B-10167	**Stopped Analysis**	Friable
Window Caulk (Miscellaneous)	Dock Office	92-03	10B-10168	**Stopped Analysis**	Friable
The following samples were collected from the Bottling/Wash House					
Pipe Insulation (Thermal System Insulation)	South Room Debris	86-01	10B-10148	**15% Chrysotile**	Friable
Pipe Insulation (Thermal System Insulation)	North Room Debris	86-02	10B-10149	**Stopped Analysis**	Friable
Pipe Insulation (Thermal System Insulation)	North Room Debris	86-03	10B-10150	**Stopped Analysis**	Friable
1-Layer Plaster (Surfacing)	North Room East Wall	87-01	10B-10151	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Room North Wall	87-02	10B-10152	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Room South Wall	87-03	10B-10153	None Detected	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Thin 1-Layer Plaster (Surfacing)	North Room East Wall	88-01	10B-10154	None Detected	Friable
Thin 1-Layer Plaster (Surfacing)	North Room West Wall	88-02	10B-10155	None Detected	Friable
Thin 1-Layer Plaster (Surfacing)	North Room East Wall	88-03	10B-10156	None Detected	Friable
1-Layer Pliable Coating on Stone (Surfacing)	Exterior Wall Sixth Street Side	89-01	10B-10157	None Detected	Nonfriable
1-Layer Pliable Coating on Stone (Surfacing)	Exterior Wall Sixth Street Side	89-02	10B-10158	None Detected	Nonfriable
1-Layer Pliable Coating on Stone (Surfacing)	Exterior Wall Sixth Street Side	89-03	10B-10159	None Detected	Nonfriable
Window Caulk (Miscellaneous)	Sixth Street Side	90-01	10B-10160	**15% Chrysotile**	Friable
Window Caulk (Miscellaneous)	Sixth Street Side	90-02	10B-10161	**Stopped Analysis**	Friable
Window Caulk (Miscellaneous)	Sixth Street Side	90-03	10B-10162	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Sixth Street Side	91-01	10B-10163	**5.0% Chrysotile**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Window Glaze (Miscellaneous)	Sixth Street Side	91-02	10B-10164	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Sixth Street Side	91-03	10B-10165	**Stopped Analysis**	Friable

TABLE 2 – INVENTORY OF ASBESTOS-CONTAINING MATERIALS

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
The following items are located in the New Brew House					
Third Floor Office, HVAC Unit 794	RACM	Duct Insulation	Good	100 SF	$1,500.00
Third Floor Control Room	RACM	Metal Jacketed Line	Good	20 LF	$200.00
Third Floor Control Room	RACM	6" O.D. Line	Good	10 LF	$100.00
First, Second, and Third Floors	II	Fire Doors	Good	15 Each	$1,500.00
Third Floor Restrooms Behind Walls	RACM	Pipe Insulation with Debris	Fair	30 LF	$300.00
Third Floor Restrooms Behind Walls	RACM	Pipe Insulation with Debris	Fair	30 LF	$300.00
Second Floor Control Room	RACM	Duct Insulation	Good	150 SF	$2,250.00
Second Floor Office	RACM	Pipe Insulation with Debris Above Ceiling	Poor	250 LF	$2,500.00
Second Floor Restrooms Behind Walls	RACM	Pipe Insulation with Debris	Fair	30 LF	$300.00
Ground Floor	RACM	Ground Floor Contaminated With Pipe Insulation Debris	Poor	6,120 SF	$91,800.00
Ground Floor Running North to South	RACM	8"O.D. Line	Good	60 LF	$600.00
By Windows Ground Floor	RACM	6" O.D. Line	Poor	40 LF	$400.00
Middle of Room by Ceiling Ground Floor	RACM	4" O.D. Line	Fair	70 LF	$700.00
Middle of Room by Ceiling Ground Floor	RACM	4" O.D. Line	Fair	25 LF	$250.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
West End Ground Floor	RACM	8" O.D. Line	Fair	110 LF	$1,100.00
West End Ground Floor	RACM	8" O.D. Line	Fair	60 LF	$600.00
The following items are located at the Old Boiler House					
Ground Floor	RACM	Ground Floor Contaminated With Pipe Insulation Debris	Poor	5400 SF	$81,000.00
Ground Floor Boilers Around-d the Edges and at Penetrations	RACM	Rope Boiler Gasket	Poor	300 LF	$3,000.00
Ground Floor Block Boiler Insulation	RACM	Block Boiler Insulation	Poor	2000 SF	$30,000.00
Ground Floor South of Boiler	RACM	Boiler Breeching	Fair	250 SF	$3,750.00
Ground Floor West Wall	RACM	Air Cell Pipe Insulation	Fair	130 LF	$1,300.00
Ground Floor South Wall	RACM	Grey one-layer Plaster	Poor	400 SF	$4,000.00
Second Floor on Floor	RACM	Boiler Breeching Debris	Poor	1800 SF	$27,000.00
Second Floor	RACM	Tank Insulation	Fair	400 SF	$6,000.00
Second Floor	RACM	Tank Insulation	Fair	400 SF	$6,000.00
Second Floor Far Wall	RACM	Boiler Breeching	Fair	265 SF	$3,975.00
Second Floor Throughout	RACM	12" O.D. pipe Insulation	Fair	340 LF	$3,400.00
Second Floor By Bottom	RACM	12" O.D. pipe Insulation	Poor	30 LF	$300.00
Roof	II	Transite Debris from Demolished Building	Poor	300 SF	$1,800.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Roof Cooling Tower	II	Flat Transite Panels	Good	1376 SF	$8,256.00
Roof Elevator Room	II	Insulated Fire Door	Poor	1 Each	$100.00
Roof Elevator Room	II	Window Glazing	Poor	1 Each	$100.00
Cellar Under Boiler House	RACM	Floor Contaminated With Pipe Insulation Debris	Poor	5400 SF	$81,000.00
Cellar Boiler Room	RACM	Floor Contaminated With Pipe Insulation Debris	Poor	1400 SF	$21,000.00
Cellar Boiler Room	RACM	Seven (7) Barrels of Stored Asbestos Containing Waste	Poor	7 Barrels	$1,000.00
Cellar Boiler Room	RACM	Plaster with Chicken Wire	Poor	300 SF	$3,000.00
The following items are located at the New Boiler & Engine House					
Smoke Stack Room	RACM	Pipe Insulation Debris on Floor	Poor	4455 SF	$66,825.00
Smoke Stack Room Square Boiler on Platform	RACM	Boiler Insulation	Poor	150 SF	$2,250.00
Smoke Stack Room Along South Wall	RACM	12" O.D. Pipe Insulation	Poor	200 LF	$2,000.00
Smoke Stack Room Throughout Room	RACM	6" O.D. Pipe Insulation	Poor	200 LF	$2,000.00
Motor Room w/ 5 Fans in North Window South Wall	RACM	12" O.D. Pipe Insulation	Poor	12 LF	$120.00
Motor Room w/ 5 Fans in North Window By Engines	RACM	12" O.D. Pipe Insulation	Poor	20 LF	$200.00
Motor Room w/ 5 Fans in North Window By Engines	RACM	6" O.D. Pipe Insulation	Poor	60 LF	$600.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Motor Room w/ 5 Fans in North Window	II	Window Glaze	Fair	680 LF	$3,400.00
Basement Bottom of Stairs	II	Transite Panels on Ceiling	Poor	64 SF	$384.00
Basement Bottom of Stairs	II	Transite Panels Debris	Poor	200 SF	$1,200.00
Basement Freight Elevator	II	Freight Elevator Fire Door Insulation	Good	2 Each	$400.00
Basement	RACM	Vertical 5' Tank Insulation	Fair	75 SF	$1,125.00
Basement	II	Stored Rope Gasket	Poor	20 LF	$100.00
Basement	RACM	Vertical 7' Tank Insulation	Poor	100 SF	$1,500.00
Basement	RACM	Vertical 10' Tank Insulation	Poor	150 SF	$2,250.00
Basement	RACM	Vertical 12' Tank Insulation	Poor	200 SF	$3,000.00
Basement	RACM	Thermal System Insulation with Debris	Poor	150 LF	$1,500.00
Basement	RACM	Tar Thermal System Insulation by Tanks	Fair	100 LF	$1,000.00
Basement	II	Insulated Fire Door	Fair	6 Each	$600.00
Second Level	RACM	Tar & Cork Tank Insulation	Poor	1,200 SF	$18,000.00
Third Floor Exterior Windows	II	Window Glaze	Poor	1000 LF	$5,000.00
Third Floor	RACM	Vertical 7' Tank Insulation	Poor	150 SF	$2,250.00
Third Floor Locker Room Windows	II	Window Glaze	Poor	400 LF	$2,000.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Third Floor by Vertical Tank	RACM	Air Cell Pipe Insulation	Poor	100 LF	$1,000.00
Third Floor by Vertical Tank	RACM	Stored Rolled Insulating Material Four Rolls @ ~ 10 SF per Roll	Poor	40 SF	$100.00
Third Floor Inside Breaker on North Wall	II	Black Transite Debris	Poor	40 SF	$600.00
Third Floor Scattered Throughout and on Work Bench	II	Stored Rolled Sheet Gasket Material	Poor	50 SF	$250.00
Third Floor by Boiler	RACM	Duct/Breeching Insulation	Poor	1500 SF	$22,500.00
Fourth Floor	II	Round Transite Cover	Good	100 SF	$300.00
Fourth Floor	RACM	Air-cell Pipe Insulation	Fair	70 LF	$700.00
Fourth Floor Exterior Windows	II	Window Glaze	Poor	1650 LF	$8,250.00
Fourth Floor	II	Transite Debris by Wooden Tank	Poor	60 SF	$900.00
Fourth Floor	RACM	Asbestos Containing Insulation Debris	Poor	2000 SF	$30,000.00
The following items are located at the Racking Fermentation House					
Storage Room South Wall	RACM	1-Layer Plaster	Fair	1320 SF	$13,200.00
Basement Dock	RACM	Cut-out Pipes on Ground with Tar with White Wrap	Poor	100 LF	$1,000.00
Throughout Building	II	Window Glazing	Fair	480 LF	$2,400.00
Second Floor North, East and West Walls	RACM	Tar and Cork Insulation on Walls	Fair	900 SF	$9,000.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Second Floor South Wall	RACM	1-Layer Plaster	Fair	300 SF	$3,000.00
Second Floor South Room	I	9"x9" Dark Grey Floor Tile	Fair	1840 SF	$5,520.00
Second Floor	II	Insulated Fire Door	Fair	4 Each	$400.00
Third Floor	RACM	Layered Paper Pipe Insulation Debris	Poor	1840 SF	$27,600.00
Fourth Floor Stairwell	II	Window Caulk	Good	32 LF	$160.00
The following items are located at the Bottling/Wash House					
South Room Ground Floor	RACM	Pipe Insulation and Debris	Poor	25 LF	$250.00
North Room Ground Floor	RACM	Pipe Insulation and Debris	Poor	100 LF	$1,000.00
Second Floor	RACM	Pipe Insulation and Debris	Poor	200 LF	$2,000.00
Basement/Locker Room	RACM	Pipe Insulation and Debris	Poor	200 LF	$2,000.00
Throughout Building	II	Window glazing	Fair	165 LF	$825.00
Basement/Locker Room Behind Walls	RACM	Pipe Insulation and Debris	Poor	100 LF	$1,000.00
The following items are located in Areas that were not Accessible and are assumed to be ACM					
The following items are located at the New Boiler & Engine House					
West Wall on Upper Levels Stairwell Cut-off	RACM	Boiler Insulation under Metal Covering	Good	2800 SF	$56,000.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
West Wall on Upper Levels Stairwell Cut-off	RACM	Tank Insulation under Metal Jacket	Good	2000 SF	$30,000.00
Basement Room not Accessible Due to ~ 5' Water at Entrance	RACM	Boiler Insulation under Brick	Good	600 SF	$12,000.00
The following items are located in the New Brew House					
Pit by South Wall not Accessible Stairwell Cut-off	RACM	Pipe Insulation and Debris	Good	600 LF	$10,000.00
The following items are located in the Trench in the Shipping Yard					
Trench in Court Yard Majority Cover by Soil	RACM	Pipe Insulation and Debris	Good	200 LF	$4,000.00
				Estimate Total	**$754,040.00**

Notes:
RACM Regulated Asbestos-Containing Material
Category I Non-Friable ACM - resilient floor covering, roofing products, gaskets and packings
Category II Non-Friable ACM - all other non-friable material
(a) Asbestos-containing homogeneous area number description:
* Assumed asbestos-containing material

APPENDIX A – INSPECTOR ACCREDITATIONS

State of Ohio
Department of Health
Division of Quality Assurance - Asbestos Program

Asbestos Hazard Evaluation Specialist

Michael R Bossert
ATC Associates Inc
11121 Canal Road
Cincinnati OH 45241

Certification Number
ES31438

Expiration Date
08/12/2010

DOB: 08/05/1963

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701-34 of the Ohio Administrative Code

Certification Card is not valid if altered

The InService Training Network

Asbestos Building Inspector
Refresher Course

Mike Bossert

has successfully completed the Asbestos Building Inspector Refresher Course and passed by at least 70%
the course examination for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2
Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: May 12, 2010

Course Director: Kurt Varga

Expiration Date: May 12, 2011

Examination Date: May 12, 2010

Course Location: Cincinnati, Ohio

Certificate Number: ITN-IR-4130

© 1995 GOES 2345

LITHO IN U.S.A.

The InService Training Network

Asbestos Management Planner
Refresher Course

Mike Bossert

has successfully completed the Asbestos Management Planner Refresher Course and passed by at least 70%
the course examination for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2.
Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: **May 12, 2010**

Course Director: Kurt Varga

Expiration Date: **May 12, 2011**

Examination Date: **May 12, 2010**

Course Location: **Cincinnati, Ohio**

Certificate Number: **ITN-MR-4130**

© 1995 GOES 2345

LITHO IN U.S.A.

APPENDIX B – BULK SAMPLE LABORATORY REPORT

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery - Cincinnati, Ohio
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 06/18/10 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
01-01	10B-08761	Grey	CHRY	35.0	CELL	10.0	Insulation
01-02	10B-08762	Sample was not analyzed per the positive stop instructions.					
01-03	10B-08763	Sample was not analyzed per the positive stop instructions.					
02-01	10B-08764	Grey/White	ND	ND	CELL/FBGL	45.0/10.0	Ceiling Tile
02-02	10B-08765	Grey/White	ND	ND	CELL/FBGL	45.0/10.0	Ceiling Tile
02-03	10B-08766	Grey/White	ND	ND	CELL/FBGL	45.0 / 5.0	Ceiling Tile
03-01	10B-08767	Black	ND	ND	ND	ND	Material
04-01	10B-08768	Grey/Green	ND	ND	ND	ND	Caulking
04-02	10B-08769	Grey/Green	ND	ND	ND	ND	Caulking
05-01	10B-08770	Grey	ND	ND	FBGL	2.0	Material
05-02	10B-08771	Grey	ND	ND	FBGL	2.0	Material
06-01	10B-08772	Grey	CHRY	50.0	CELL	10.0	Insulation
06-02	10B-08773	Sample was not analyzed per the positive stop instructions.					
07-01	10B-08774	Grey	CHRY	35.0	ND	ND	Insulation
07-02	10B-08775	Sample was not analyzed per the positive stop instructions.					
08-01	10B-08776	Brown/Grey	CHRY	20.0	CELL	60.0	Insulation
09-01	10B-08777	Grey	CHRY	20.0	FBGL	5.0	Insulation
09-02	10B-08778	Sample was not analyzed per the positive stop instructions.					
09-03	10B-08779	Sample was not analyzed per the positive stop instructions.					
10-01	10B-08780	White	AMOS/CHRY	3.0 / 8.0	ND	ND	Insulation
10-02	10B-08781	Sample was not analyzed per the positive stop instructions.					
10-03	10B-08782	Sample was not analyzed per the positive stop instructions.					
11-01	10B-08783	Grey/Red	ND	ND	ND	ND	Plaster
11-02	10B-08784	Grey/Red	ND	ND	ND	ND	Plaster
11-03	10B-08785	Grey/Red	ND	ND	ND	ND	Plaster

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/4/2010
Turnaround Time:	Normal
Report Issue Date:	6/18/2010
Sample Set Number:	72.90772.5594

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

Sample Submittal Form for Analytical Services

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771-2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd Cincinnati Ohio 45241

Project Name: Hyde Park Brewery Cincinnati Ohio
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
01-01	10B-08761
01-02	
01-03	
02-01	
02-02	
02-03	
03-01	
04-01	
04-02	
05-01	
05-02	
06-01	
06-02	
07-01	
07-02	
08-01	
09-01	
09-02	
09-03	
10-01	
10-02	
10-03	
11-01	
11-02	
11-03	10B-08785

Sample Number	Laboratory Number
12-01	10B-08786
13-01	
14-01	
15-01	
15-02	
15-03	
16-01	
16-02	
16-03	
17-01	
17-02	
17-03	
18-01	
18-02	
18-03	
19-01	
20-01	
21-01	
22-01	
23-01	10B-08805

Special Instructions:
Stop at First Positive per homogenous Area.
Email Results to bossert72@atc-enviro.com

Chain of Custody

Relinquished By:	Date / Time	Received By:
Michael Bossert	6/4/10 / 0800	
	6-8-10 / 11:05	Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery - Cincinnati, Ohio
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 06/18/10 **Page Number:** 2 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
12-01	10B-08786	Grey	CHRY	60.0	ND	ND	Insulation
13-01	10B-08787	Grey	CHRY	85.0	ND	ND	Insulation
14-01	10B-08788	White	CHRY	40.0	ND	ND	Insulation
15-01	10B-08789	Tan	ND	ND	ND	ND	Refractive Mud
15-02	10B-08790	Tan	ND	ND	ND	ND	Refractive Mud
15-03	10B-08791	Tan	ND	ND	ND	ND	Refractive Mud
16-01	10B-08792	Grey	ND	ND	CELL	1.0	Plaster
16-02	10B-08793	Grey	CHRY	2.5	ND	ND	Plaster
16-03	10B-08794	Grey	ND	ND	ND	ND	Plaster
17-01	10B-08795	Black/Brown	ND	ND	ND	ND	Material
17-02	10B-08796	Black/Brown	ND	ND	ND	ND	Material
17-03	10B-08797	Black/Brown	ND	ND	ND	ND	Material
18-01	10B-08798	Grey	CHRY	35.0	ND	ND	Insulation
18-02	10B-08799	Sample was not analyzed per the positive stop instructions.					
18-03	10B-08800	Sample was not analyzed per the positive stop instructions.					
19-01	10B-08801	Grey	CHRY	3.5	ND	ND	Caulking
20-01	10B-08802	Grey/White	CHRY	20.0	ND	ND	Transite
21-01	10B-08803	Grey/White	CHRY	17.0	ND	ND	Transite
22-01	10B-08804	Grey	CHRY	60.0	CELL	10.0	Insulation
23-01	10B-08805	Tan	CHRY	2.0	ND	ND	Caulking

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/4/2010
Turnaround Time:	Normal
Report Issue Date:	6/18/2010
Sample Set Number:	72.90772.5594

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: Leandro A. Llambi

Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

Supplemental Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884 / N/A
Date Analyzed: 6/14-16/2010 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
24-01	10B-08738	White	AMOS/CHRY	20.0/10.0	CELL	<1.0	Insulation
24-02	10B-08739	Sample not analyzed per positive stop instructions.					
24-03	10B-08740	Sample not analyzed per positive stop instructions.					
25-01	10B-08741	Grey	CHRY	50.0	CELL	<1.0	Insulation
25-02	10B-08742	Sample not analyzed per positive stop instructions.					
25-03	10B-08743	Sample not analyzed per positive stop instructions.					
26-01	10B-08744	Grey/White	AMOS/CHRY	20.0/15.0	SYNTH/CELL	5.0/<1.0	Insulation
26-02	10B-08745	Sample not analyzed per positive stop instructions.					
26-03	10B-08746	Sample not analyzed per positive stop instructions.					
27-01	10B-08747	Black/Brown	ND	ND	CELL	<1.0	Tar/Cork
27-02	10B-08748	Black/Brown	ND	ND	CELL	<1.0	Tar/Cork
27-03	10B-08749	Black/Brown	ND	ND	CELL	<1.0	Tar/Cork
28-01	10B-08750	White	ND	ND	CELL	<1.0	Plaster
28-02	10B-08751	White	ND	ND	CELL	<1.0	Plaster
28-03	10B-08752	White	ND	ND	CELL	<1.0	Plaster
29-01	10B-08753	Grey	CHRY	50.0	CELL	<1.0	Insulation
29-02	10B-08754	Grey	CHRY	40.0	FBGL/CELL	<1.0/<1.0	Insulation
29-03	10B-08755	Grey	CHRY	50.0	FBGL/CELL	<1.0/<1.0	Insulation
30-01	10B-08756	White	CHRY	60.0	CELL	<1.0	Insulation
30-02	10B-08757	Sample not analyzed per positive stop instructions.					
30-03	10B-08758	Sample not analyzed per positive stop instructions.					
31-01	10B-08759	Grey/White	CHRY	3.0	CELL	<1.0	Caulking
32-01	10B-08760	White	ND	ND	CELL	<1.0	Material

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Initial Report Issue:	6/15/2010
Sample Set Number:	72.90772.5589

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: James R Jones, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Sample Submittal Form for Analytical Services

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771-2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd
Cincinnati Ohio 45241

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
24-01	10B-08738
24-02	
24-03	
25-01	
25-02	
25-03	
26-01	
26-02	
26-03	
27-01	
27-02	
27-03	
28-01	
28-02	
28-03	
29-01	
29-02	
29-03	
30-01	
30-02	
30-03	
31-01	
32-01	10B-08760

Sample Number	Laboratory Number

Special Instructions:
Stop at first positive per homogenous area
Email results to Mike Bossert @ bossert72@atc-enviro.com

Chain of Custody

Relinquished By:	Date / Time	Received By:
Michael J Bossert	6-7-10 / 0755	
	6-8-10 / 11:10	Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 6/22/10 - 6/24/10 **Page Number:** 1 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
33-01	10B-08806	Grey/White	CHRY	8.0	ND	ND	Transite
34-01	10B-08807	Grey	CHRY	90.0	ND	ND	Material
35-01	10B-08808	White/Grey	AMOS/CHRY	20.0/45.0	ND	ND	Insulation
35-02	10B-08809	Sample was not analyzed per the positive stop instructions.					
36-01	10B-08810	White	AMOS/CHRY	20.0/10.	ND	ND	Insulation
36-02	10B-08811	Sample was not analyzed per the positive stop instructions.					
36-03	10B-08812	Sample was not analyzed per the positive stop instructions.					
37-01	10B-08813	White	AMOS/CHRY	12.0/35.0	ND	ND	Insulation
37-02	10B-08814	Sample was not analyzed per the positive stop instructions.					
37-03	10B-08815	Sample was not analyzed per the positive stop instructions.					
38-01	10B-08816	Black	ND	ND	ND	ND	Material
39-01	10B-08817	Brown	AMOS	7.0	ND	ND	Material
39-02	10B-08818	Sample was not analyzed per the positive stop instructions.					
39-03	10B-08819	Sample was not analyzed per the positive stop instructions.					
40-01	10B-08820	Grey	ND	ND	CELL	90.0	Insulation
41-01	10B-08821	Grey	CHRY	40.0	CELL	5.0	Insulation
42-01	10B-08822	Grey	CHRY	25.0	ND	ND	Insulation
43-01	10B-08823	Grey	CHRY	3.5	ND	ND	Caulking
43-02	10B-08824	Sample was not analyzed per the positive stop instructions.					
43-03	10B-08825	Sample was not analyzed per the positive stop instructions.					
44-01	10B-08826	Yellow	ND	ND	SYNTH	90.0	Material
45-01	10B-08827	Grey/Brown	CHRY	30.0	CELL	5.0	Insulation
45-02	10B-08828	Sample was not analyzed per the positive stop instructions.					
45-03	10B-08829	Sample was not analyzed per the positive stop instructions.					
46-01	10B-08830	Tan	CHRY	1.5	ND	ND	Caulking

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Report Issue Date:	6/24/2010
Sample Set Number:	72.90772.5599

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 6/22/10 - 6/24/10 **Page Number:** 2 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
46-02	10B-08831	Sample was not analyzed per the positive stop instructions.					
46-03	10B-08832	Sample was not analyzed per the positive stop instructions.					
47-01	10B-08833	Brown/White	CHRY	20.0	ND	ND	Material
48-01	10B-08834	Grey	CHRY	45.0	ND	ND	Insulation
49-01	10B-08835	Black/White	CHRY	8.0	ND	ND	Material
50-01	10B-08836	Grey	CHRY	20.0	ND	ND	Material
51-01	10B-08837	White	CHRY	25.0	ND	ND	Insulation
51-02	10B-08838	Sample was not analyzed per the positive stop instructions.					
51-03	10B-08839	Sample was not analyzed per the positive stop instructions.					
52-01	10B-08840	White	ND	ND	SYNTH	90.0	Material
53-01	10B-08841	White	CHRY	50.0	SYNTH	40.0	Material
54-01	10B-08842	Grey/Black	ND	ND	CELL	65.0	Material
55-01	10B-08843	Grey/White	CHRY	17.0	ND	ND	Transite
56-01	10B-08844	Grey	ND	ND	ND	ND	Plaster
56-02	10B-08845	Grey	ND	ND	ND	ND	Plaster
56-03	10B-08846	Grey	ND	ND	ND	ND	Plaster
56-04	10B-08847	Grey	ND	ND	ND	ND	Plaster
56-05	10B-08848	Grey	ND	ND	ND	ND	Plaster
56-06	10B-08849	Grey	ND	ND	ND	ND	Plaster
56-07	10B-08850	Grey	ND	ND	ND	ND	Plaster
57-01	10B-08851	Black/White	CHRY	7.0	ND	ND	Material
57-02	10B-08852	Sample was not analyzed per the positive stop instructions.					
57-03	10B-08853	Sample was not analyzed per the positive stop instructions.					

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Report Issue Date:	6/24/2010
Sample Set Number:	72.90772.5599

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884 / N/A
Date Analyzed: 6/22-23/2010 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
58-01	10B-08855	White/Grey	ND	ND	SYNTH/CELL	<1.0/<1.0	Plaster
58-02	10B-08856	White/Grey	ND	ND	SYNTH/CELL	<1.0/<1.0	Plaster
58-03	10B-08857	White/Grey	ND	ND	SYNTH/CELL	<1.0/<1.0	Plaster
59-01	10B-08858	White/Black	CHRY	5.0	CELL	10.0	Material
59-02	10B-08859	Sample not analyzed per positive stop instructions.					
59-03	10B-08860	Sample not analyzed per positive stop instructions.					
60-01	10B-08861	Grey	CHRY	3.0	CELL	<1.0	Caulking
61-01	10B-08862	Lt. Grey	ND	ND	FBGL/CELL	<1.0/30.0	Insulation
62-01	10B-08863	Lt. Grey	CHRY	55.0	CELL	<1.0	Insulation
63-01	10B-09138	Brown	ND	ND	CELL	30.0	Insulation

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Report Issue Date:	6/23/2010
Sample Set Number:	72.90772.5597

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: James R Jones, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Sample Submittal Form for Analytical Services

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771 2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd
Cincinnati Ohio 45241

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
58-01	10B-08855
58-02	↓
58-03	
59-01	
59-02	
59-03	
60-01	
61-01	↓
62.01	10B-08863
63-01	10B-09138

Sample Number	Laboratory Number

Special Instructions:
Stop at first positive per homogenous area
Present results to Mike Bossert by electronic mail at bossert72@atc-enviro.com

Chain of Custody

Relinquished By:	Date / Time	Received By:
Michael J. Bossert	6/8/10 / 0700	John Storage
John	6-8-10 / 11:30	
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd, Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 07/02/10 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
64-01	10B-09445	Tan	ND	ND	SYNTH	85.0	Material

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/24/2010
Turnaround Time:	Normal
Report Issue Date:	7/2/2010
Sample Set Number:	72.90772.5605

NVLAP® LAB CODE: 200471-0

Analyst Signature: Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. *11121 Canal Road* *Cincinnati, OH 45241* *Tel: 513.771.2112* *Fax: 513.782.6908*

VATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Sample Submittal Form for Analytical Services

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771 2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd Cincinnati Ohio

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days (circled)
Rush 24 to 48 hours
Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) (circled)
Air Asbestos (NIOSH 7400)
Lead Analysis
Biological
TEM

Sample Log

Sample Number	Laboratory Number
C4-01	103-09445

Sample Number	Laboratory Number

Special Instructions:

Chain of Custody

Relinquished By:	Date/Time	Received By:
Michael J Bossert	6-24-10 1600	
	6-28-10 8:30	Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepol Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 7/19/10-7/20/10 **Page Number:** 1 of 3

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
59-04	10B-10118	Black	CHRY	5.0	CELL/FBGL	1.0/2.0	Roof Material
65-01	10B-10119	Black/Brown	ND	ND	CELL	15.0	Roof Material
66-01	10B-10120	Tan	ND	ND	CELL	<1.0	Plaster
67-01	10B-10121	Black	ND	ND	CELL	60.0	Roof Material
68-01	10B-10122	Black	ND	ND	CELL	40.0	Roof Material
69-01	10B-10123	Tan	ND	ND	CELL	<1.0	Plaster
70-01	10B-10124	Black	ND	ND	CELL	40.0	Roof Material
71-01	10B-10125	Black	ND	ND	CELL	10.0	Roof Material
72-01	10B-10126	Black	CHRY	5.0	CELL	25.0	Roof Material
73-01	10B-10127	Black	ND	ND	CELL	5.0	Roof Material
74-01	10B-10128	Grey	ND	ND	CELL	<1.0	Plaster
75-01	10B-10129	Grey	ND	ND	CELL	<1.0	Plaster
76-01	10B-10130	Grey	ND	ND	CELL	<1.0	Plaster
76-02	10B-10131	Grey	ND	ND	CELL	<1.0	Concrete
77-01	10B-10132	Grey	ND	ND	CELL	<1.0	Concrete
77-02	10B-10133	Grey	ND	ND	CELL	<1.0	Concrete
78-01	10B-10134	Grey	CHRY	60.0	CELL	1.0	Insulation
79-01A	10B-10135A	Brown	CHRY	1.5	CELL	<1.0	Floor Tile
79-01B	10B-10135B	Black	CHRY	1.5	CELL	<1.0	Mastic
80-01	10B-10136	Grey	ND	ND	CELL	<1.0	Plaster
80-02	10B-10137	Grey	ND	ND	CELL	<1.0	Plaster
80-03	10B-10138	Grey	ND	ND	CELL	<1.0	Plaster
81-01	10B-10139	Grey/Tan	ND	ND	CELL	10.0	Drywall
82-01	10B-10140	Tan	ND	ND	CELL/FBGL	<1.0/10.0	Insulation
82-02	10B-10141	Tan	ND	ND	CELL/FBGL	<1.0	Insulation

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	7/11/2010
Turnaround Time:	Normal
Report Issue Date:	7/21/2010
Sample Set Number:	72.90772.5624

NVLAP® LAB CODE: 200471-0

Analyst Signature: Helen M. Bray
Helen M. Bray, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepol Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 7/19/10-7/20/10 **Page Number:** 2 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
82-03	10B-10142	Tan	ND	ND	CELL/FBGL	<1.0/10.0	Insulation
83-01	10B-10143	Grey	CHRY	15.0	CELL	<1.0	Material
83-02	10B-10144	Positive stop analysis per client request					
83-03	10B-10145	Positive stop analysis per client request					
84-01	10B-10146	Black	ND	ND	CELL	20.0	Roof Material
85-01	10B-10147	Black	ND	ND	CELL	10.0	Roof Material
86-01	10B-10148	White	CHRY	15.0	CELL	<1.0	Insulation
86-02	10B-10149	Positive stop analysis per client request					
86-03	10B-10150	Positive stop analysis per client request					
87-01	10B-10151	Grey	ND	ND	CELL	<1.0	Plaster
87-02	10B-10152	Grey	ND	ND	CELL	<1.0	Plaster
87-03	10B-10153	Grey	ND	ND	CELL	<1.0	Plaster
88-01	10B-10154	Grey	ND	ND	CELL	<1.0	Plaster
88-02	10B-10155	Grey	ND	ND	CELL	<1.0	Plaster
88-03	10B-10156	Grey	ND	ND	CELL	<1.0	Plaster
89-01	10B-10157	Grey	ND	ND	CELL	<1.0	Plaster
89-02	10B-10158	Grey	ND	ND	CELL	<1.0	Plaster
89-03	10B-10159	Grey	ND	ND	CELL	<1.0	Plaster
90-01	10B-10160	Grey/Tan	CHRY	15.0	CELL	<1.0	Caulk
90-02	10B-10161	Positive stop analysis per client request					
90-03	10B-10162	Positive stop analysis per client request					
91-01	10B-10163	Grey/Tan	CHRY	5.0	CELL	<1.0	Caulk
91-02	10B-10164	Positive stop analysis per client request					
91-03	10B-10165	Positive stop analysis per client request					
92-01	10B-10166	Grey/Tan	CHRY	5.0	CELL	<1.0	Caulk

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	7/11/2010
Turnaround Time:	Normal
Report Issue Date:	7/21/2010
Sample Set Number:	72.90772.5624

NVLAP® LAB CODE: 200471-0

Analyst Signature: Helen M. Bray
Helen M. Bray, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepol Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 7/19/10-7/20/10 **Page Number:** 3 of 3

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
92-02	10B-10167	Positive stop analysis per client request					
92-03	10B-10168	Positive stop analysis per client request					

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	7/11/2010
Turnaround Time:	Normal
Report Issue Date:	7/21/2010
Sample Set Number:	72.90772.5624

NVLAP® LAB CODE: 200471-0

Analyst Signature: Helen M. Bray

Helen M. Bray, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6906

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Sample Submittal Form for Analytical Services

Client Information

Company Name: ATC Associates Inc.
Project Name: Hudepohl Brewery
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771 2112
Project Number: 12.05826.0884
E-mail Address: bossert72@atc-enviro.com
P.O. Number:
Address: 11121 Canal Rd
Cincinnati Ohio 45241
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
59-04	10B-10118
65-01	
66-01	
67-01	
68-01	
69-01	
70-01	
71-01	
72-01	
73-01	
74-01	
75-01	
76-01	
76-02	
77-01	
77-02	
78-01	
79-01	
80-01	
80-02	
80-03	
81-01	
82-01	
82-02	
82-03	10B-10142

Sample Number	Laboratory Number
83-01	10B-10143
83-02	
83-03	
84-01	
85-01	
86-01	
86-02	
86-03	
87-01	
87-2	
87-3	
88-1	
88-2	
88-3	
89-01	
89-02	
89-03	
90-01	
90-02	
90-03	
91-01	
91-02	
91-03	
92-01-01	
92-01-02	
92-01-03	10B-10144

Special Instructions:
Stop at first positive per homogenous area

Chain of Custody

Relinquished By:	Date/Time	Received By:
	7-7-10 1700	
	7.11.10 1630	Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 12/23/10 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
NBR-01	10B-17283	White	AMOS/CHRY	15.0/20.0	ND	ND	Insulation
NBR-02	10B-17284	Sample was not analyzed per the positive stop instructions.					
OBH-01-01	10B-17285	Grey	CHRY	40.0	ND	ND	Insulation
OBH-01-02	10B-17286	Sample was not analyzed per the positive stop instructions.					
OBH-01-03	10B-17287	Sample was not analyzed per the positive stop instructions.					
OBH-02-01	10B-17288	Grey	CHRY	15.0	FBGL	30.0	Insulation
OBH-02-02	10B-17289	Sample was not analyzed per the positive stop instructions.					
OBH-02-03	10B-17290	Sample was not analyzed per the positive stop instructions.					
38-02	10B-17291	Brown/Black	CHRY	10.0	ND	ND	Insulation
38-03	10B-17292	Sample was not analyzed per the positive stop instructions.					
RF-01-01	10B-17293	Tan	ND	ND	FBGL	3.0	Insulation
RF-01-02	10B-17294	Tan	ND	ND	FBGL	3.0	Insulation
RF-01-03	10B-17295	Tan	ND	ND	FBGL	3.0	Insulation

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	12/22/2010
Turnaround Time:	Rush
Report Issue Date:	12/23/2010
Sample Set Number:	72.90772.5706

NVLAP LAB CODE: 200471-0

Analyst Signature: Leandro A. Llambi

Leandro A. Llambi, Quality Control Coordinator

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Sample Submittal Form for Analytical Services

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: _____ Project Name: Hyde Park Brewery
Report Results to: JASen Holton
Fax Number: _____
Phone Number: _____ Project Number: 72.05876.0884
E-mail Address: _____ P.O. Number: _____
Address: _____ Billing Address: _____

Turnaround Time (Circle One)

Normal	Rush	Emergency Rush
3 to 5 days	24 to 48 hours	less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number	Sample Number	Laboratory Number
NBR-01	10B-17283		
↓ -02			
OBH-01			
↓ 02			
↓ 03			
OBH-02-01			
↓ 02-02			
↓ 02-03			
38-02			
38-03			
RF-01-01			
↓ 01-02			
↓ 01-03	10B-17295		

Special Instructions: Stop UT + eak Area
need Results By 12-27-10 by 5pm

Chain of Custody

Relinquished By:	Date/Time	Received By:
[signature]	12/22/10 / 2:30 pm	Helen M. Bray
Helen M. Bray	12.23.10 / 6:15 pm	Storage
	/	
	/	
	/	

APPENDIX C – SITE FIGURE

Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

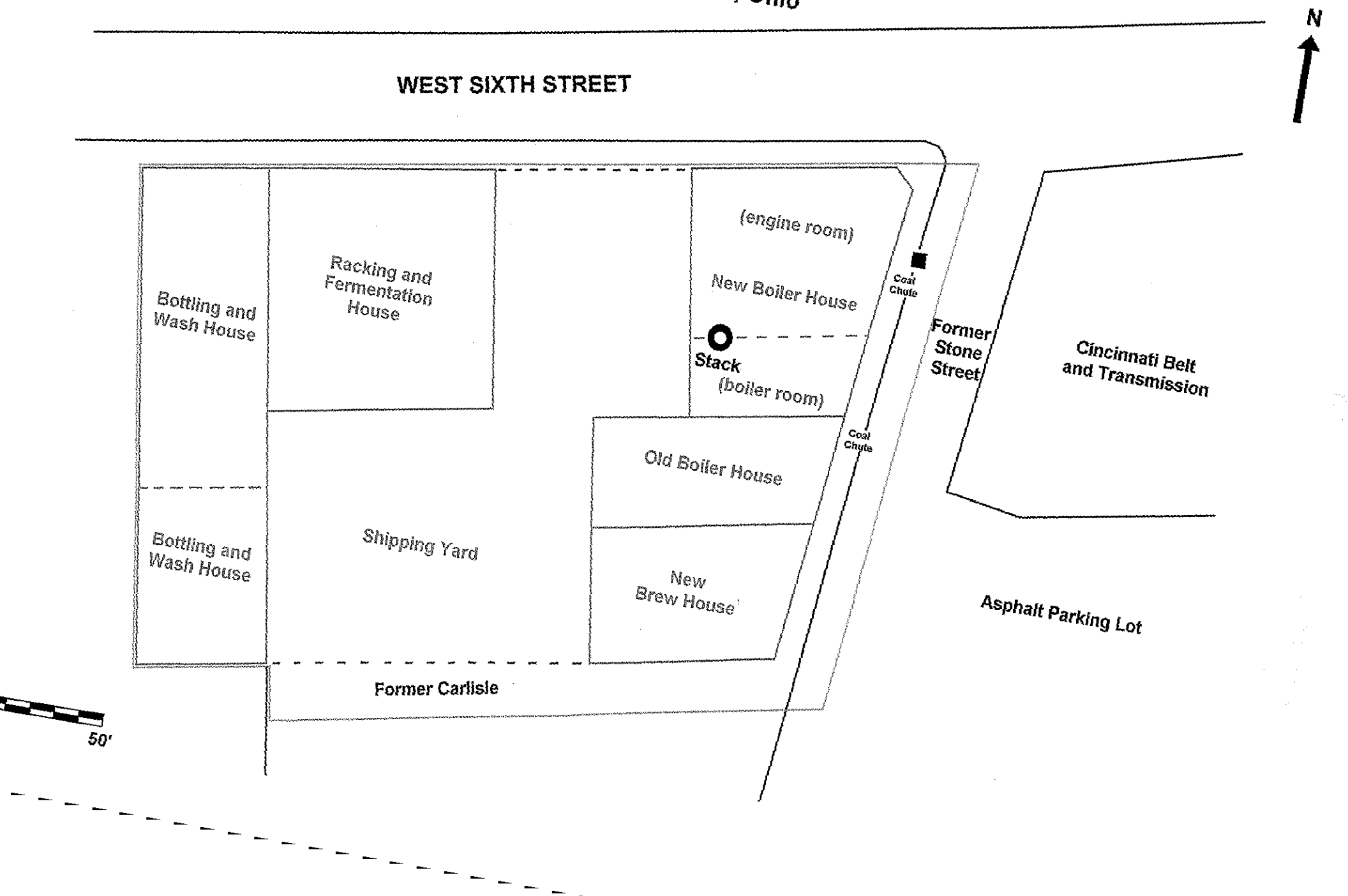


TABLE 1 – BULK SAMPLE DATA SUMMARY

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
The following samples were collected from the Hudepohl Brewery in Cincinnati, Ohio						
The following samples were collected from the New Brew House						
Duct Insulation (Thermal Systems Insulation)	Third Floor Office HVAC 794	1	01-01	10B-08761	**35% Chrysotile**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor Office HVAC 794	1	01-02	10B-08762	**Stopped Analysis**	Friable
Duct Insulation (Thermal Systems Insulation)	Second Floor Office	1	01-03	10B-08763	**Stopped Analysis**	Friable
White 2'x4' Ceiling Tile (Miscellaneous)	Third Floor Control Room	2	02-01	10B-08764	None Detected	Friable
White 2'x4' Ceiling Tile (Miscellaneous)	Third Floor Control Room	2	02-02	10B-08765	None Detected	Friable
White 2'x4' Ceiling Tile (Miscellaneous)	Second Floor Hallway	2	02-03	10B-08766	None Detected	Friable
Pitch on Tank Wall (Miscellaneous)	Third Floor Control Room	3	03-01	10B-08767	None Detected	Nonfriable
Window Glaze (Miscellaneous)	Second Floor East Office	4	04-01	10B-08768	None Detected	Nonfriable
Window Glaze (Miscellaneous)	South Stairwell	4	04-02	10B-08769	None Detected	Nonfriable
4'x12' Stored Wallboard Sheets (Miscellaneous)	Brewing Control Room	5	05-01	10B-08770	None Detected	Nonfriable
4'x12' Stored Wallboard Sheets (Miscellaneous)	Brewing Control Room	5	05-02	10B-08771	None Detected	Nonfriable
Aircell Pipe Insulation Debris (Thermal Systems Insulation)	Southeast Room	6	06-01	10B-08772	**50% Chrysotile**	Friable
Aircell Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor	6	06-02	10B-08773	**Stopped Analysis**	Friable
Pipe Fitting Insulation (Thermal Systems Insulation)	Southeast Room	7	07-01	10B-08774	**35% Chrysotile**	Friable
Pipe Fitting Insulation (Thermal Systems Insulation)	Ground Floor	7	07-02	10B-08775	**Stopped Analysis**	Friable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Ground Floor	8	08-01	10B-08776	**20% Chrysotile**	Friable
Membrane Over Concrete (Miscellaneous)	Roof	71	71-01	10B-10125	None Detected	Nonfriable
Asphalt Shingle Layer (Miscellaneous)	Roof	72	72-01	10B-10126	**5.0% Chrysotile**	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Pitch Penetration Flashing (Miscellaneous)	Roof	73	73-01	10B-10127	None Detected	Nonfriable
The following samples were collected from the Old Boiler House						
Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor Scattered on Floor	9	09-01	10B-08777	**20% Chrysotile**	Friable
Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor Scattered on Floor	9	09-02	10B-08778	**Stopped Analysis**	Friable
Pipe Insulation Debris (Thermal Systems Insulation)	Ground Floor Scattered on Floor	9	09-03	10B-08779	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Ground Floor South of Boiler	10	10-01	10B-08780	**3% Amosite 8% Chrysotile**	Friable
Boiler Breeching (Thermal Systems Insulation)	Ground Floor South of Boiler	10	10-02	10B-08781	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Ground Floor South of Boiler	10	10-03	10B-08782	**Stopped Analysis**	Friable
Mud Caulk on Boilers (Thermal Systems Insulation)	Seams on the Boilers	11	11-01	10B-08783	None Detected	Friable
Mud Caulk on Boilers (Thermal Systems Insulation)	Seams on the Boilers	11	11-02	10B-08784	None Detected	Friable
Mud Caulk on Boilers (Thermal Systems Insulation)	Seams on the Boilers	11	11-03	10B-08785	None Detected	Friable
Woven Boiler Gasket (Thermal Systems Insulation)	South Boiler Door	12	12-01	10B-08786	**60% Chrysotile**	Friable
Rope Boiler Gasket (Thermal Systems Insulation)	South Boiler Door	13	13-01	10B-08787	**85% Chrysotile**	Friable
Block Boiler Insulation (Thermal Systems Insulation)	North Boiler	14	14-01	10B-08788	**40% Chrysotile**	Friable
Interior Boiler Brick (Miscellaneous)	Interior of the Boilers	15	15-01	10B-08789	None Detected	Nonfriable
Interior Boiler Brick (Miscellaneous)	Interior of the Boilers	15	15-02	10B-08790	None Detected	Nonfriable
Interior Boiler Brick (Miscellaneous)	Interior of the Boilers	15	15-03	10B-08791	None Detected	Nonfriable
Grey One-layer Plaster (Surfacing)	South Wall	16	16-01	10B-08792	None Detected	Friable
Grey One-layer Plaster (Surfacing)	South Wall	16	16-02	10B-08793	**2.5% Chrysotile**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Grey One-layer Plaster (Surfacing)	South Wall	16	16-03	10B-08794	None Detected	Friable
Cord and Tar Pipe Insulation (Thermal Systems Insulation)	Inside Stairwell	17	17-01	10B-08795	None Detected	Nonfriable
Cord and Tar Pipe Insulation (Thermal Systems Insulation)	Inside Stairwell	17	17-02	10B-08796	None Detected	Nonfriable
Cord and Tar Pipe Insulation (Thermal Systems Insulation)	Inside Stairwell	17	17-03	10B-08797	None Detected	Nonfriable
Boiler Breeching (Thermal Systems Insulation)	Second Floor	18	18-01	10B-08798	**35% Chrysotile**	Friable
Boiler Breeching (Thermal Systems Insulation)	Second Floor	18	18-02	10B-08799	**Stopped Analysis**	Friable
Boiler Breeching (Thermal Systems Insulation)	Second Floor	18	18-03	10B-08800	**Stopped Analysis**	Friable
Exterior Plaster (Surfacing)	North Wall	74	74-01	10B-10128	None Detected	Nonfriable
The following samples were collected from the Roofs of the Old and New Boiler Houses						
Window Glazing (Miscellaneous)	Sky Light	19	19-01	10B-08801	**3.5% Chrysotile**	Nonfriable
Corrugated Transite Debris (Miscellaneous)	Roof Deck	20	20-01	10B-08802	**20% Chrysotile**	Nonfriable
Flat Cooling Tower Panels (Miscellaneous)	Cooling Tower	21	21-01	10B-08803	**17% Chrysotile**	Nonfriable
Fire Door Insulation (Miscellaneous)	Elevator Mechanical Room Door	22	22-01	10B-08804	**60% Chrysotile**	Friable
Window Glazing (Miscellaneous)	Elevator Mechanical Room	23	23-01	10B-08805	**2% Chrysotile**	Nonfriable
The following samples were collected from the New Boiler and Engine House						
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room Floor	24	24-01	10B-08738	**20% Amosite 10% Chrysotile**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room Floor	24	24-02	10B-08739	**Stopped Analysis**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room Floor	24	24-03	10B-08740	**Stopped Analysis**	Friable
Boiler Insulation (Thermal Systems Insulation)	Boiler Room	25	25-01	10B-08741	**50% Chrysotile**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Boiler Insulation (Thermal Systems Insulation)	Boiler Room	25	25-01	10B-08741	**Stopped Analysis**	Friable
Boiler Insulation (Thermal Systems Insulation)	Boiler Room	25	25-01	10B-08741	**Stopped Analysis**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room South Wall	26	26-01	10B-08744	**20% Chrysotile 15% Amosite**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room West Wall	26	26-02	10B-08745	**Stopped Analysis**	Friable
Thermal System Insulation Debris (Thermal Systems Insulation)	Boiler Room West Wall	26	26-03	10B-08746	**Stopped Analysis**	Friable
Tar & Cork Insulated Pipes (Thermal Systems Insulation)	Boiler Room West Wall	27	27-01	10B-08747	None Detected	Nonfriable
Tar & Cork Insulated Pipes (Thermal Systems Insulation)	Boiler Room West Wall	27	27-02	10B-08748	None Detected	Nonfriable
Tar & Cork Insulated Pipes (Thermal Systems Insulation)	Boiler Room West Wall	27	27-03	10B-08749	None Detected	Nonfriable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Engineer Room South Wall	30	30-01	10B-08756	**60% Chrysotile**	Friable
yered Paper Pipe Insulation (Thermal Systems Insulation)	Engineer Room South Wall	30	30-02	10B-08757	**Stopped Analysis**	Friable
Layered Paper Pipe Insulation (Thermal Systems Insulation)	Engineer Room South Wall	30	30-03	10B-08758	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	East Window	31	31-01	10B-08759	**3.0% Chrysotile**	Friable
Paper under Fiberglass Insulation (Thermal Systems Insulation)	Boiler Room	32	32-01	10B-08760	None Detected	Friable
Transite Ceiling Panels (Miscellaneous)	Basement By Stairwell	33	33-01	10B-088806	**8.0% Amosite**	Nonfriable
Rope Gasket (Miscellaneous)	By the 5' Tank On the Floor	34	34-01	10B-088807	**90% Chrysotile**	Friable
Tank Insulation (Thermal Systems Insulation)	5" Vertical Tanks	35	35-01	10B-088808	**45% Chrysotile 20% Amosite**	Friable
Tank Insulation (Thermal Systems Insulation)	5" Vertical Tanks	35	35-02	10B-088809	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	7" Vertical Tanks	36	36-01	10B-088810	**20% Chrysotile 10% Amosite**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Tank Insulation (Thermal Systems Insulation)	7" Vertical Tanks	36	36-02	10B-088811	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	7" Vertical Tanks	36	36-03	10B-088812	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	12" Horizontal Tanks	37	37-01	10B-088813	**35% Chrysotile 12% Amosite**	Friable
Tank Insulation (Thermal Systems Insulation)	12" Horizontal Tanks	37	37-02	10B-088814	**Stopped Analysis**	Friable
Tank Insulation (Thermal Systems Insulation)	12" Horizontal Tanks	37	37-03	10B-088815	**Stopped Analysis**	Friable
Tar and Cork Tank Insulation (Miscellaneous)	Basement	38	38-01	10B-088816	None Detected	Nonfriable
Tar Tank Insulation (Thermal Systems Insulation)	Basement 9' Tank	39	39-01	10B-088817	**7.0% Amosite**	Nonfriable
Tar Tank Insulation (Thermal Systems Insulation)	Basement 9' Tank	39	39-02	10B-088818	**Stopped Analysis**	Nonfriable
Tar Tank Insulation (Thermal Systems Insulation)	Basement 9' Tank	39	39-03	10B-088819	**Stopped Analysis**	Nonfriable
ered Paper Pipe Insulation (Thermal Systems Insulation)	Second Floor East Restroom	40	40-01	10B-088820	None Detected	Friable
Air-cell Paper Pipe Insulation (Thermal Systems Insulation)	Second Floor Restroom Above Ceiling Tiles	41	41-01	10B-088821	**40% Chrysotile**	Friable
Mud Fitting Insulation (Thermal Systems Insulation)	Second Floor Restroom Above Ceiling Tiles	42	42-01	10B-088822	**25% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor Northwest Window	43	43-01	10B-088823	**3.5% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor Northwest Window	43	43-02	10B-088824	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Third Floor Northwest Window	43	43-03	10B-088825	**Stopped Analysis**	Friable
Yellow Rope Gasket on Spool (Miscellaneous)	Third Floor by Work Bench	44	44-01	10B-088826	None Detected	Nonfriable
Tank Insulation (Thermal Systems Insulation)	Third Floor Locker Rm 7' Vertical Tank	45	45-01	10B-088827	**30% Chrysotile**	Friable
Tank Insulation (Thermal Systems Insulation)	Third Floor Locker Rm 7' Vertical Tank	45	45-02	10B-088828	**Stopped Analysis**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Tank Insulation (Thermal Systems Insulation)	Third Floor Locker Rm 7' Vertical Tank	45	45-03	10B-088829	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Third Floor Locker Room	46	46-01	10B-088830	**3.5% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor Locker Room	46	46-02	10B-088831	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Third Floor Locker Room	46	46-03	10B-088832	**Stopped Analysis**	Friable
Black Transite Panel (Miscellaneous)	Third Floor Elevator Room	47	47-01	10B-088833	**20% Chrysotile**	Nonfriable
Rolled Stored Insulation (Thermal Systems Insulation)	Third Floor By 7' Tank	48	48-01	10B-088834	**45% Chrysotile**	Friable
Black Transite Debris (Miscellaneous)	Third Floor Breaker Room	49	49-01	10B-088835	**8.0% Chrysotile**	Nonfriable
Gasket Sheeting (Miscellaneous)	Third Floor Work Room (Scattered)	50	50-01	10B-088836	**20% Chrysotile**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor	51	51-01	10B-088837	**25% Chrysotile**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor	51	51-02	10B-088838	**Stopped Analysis**	Friable
Duct Insulation (Thermal Systems Insulation)	Third Floor	51	51-03	10B-088839	**Stopped Analysis**	Friable
Rope Gasket (Miscellaneous)	Third Floor Stored on Floor (Scattered)	52	52-01	10B-088840	None Detected	Friable
Rope Gasket (Miscellaneous)	Third Floor Stored on Floor (Scattered)	53	53-01	10B-088841	**50% Chrysotile**	Friable
Stored Pipe Jacketing (Miscellaneous)	Third Floor on Floor (Scattered)	54	54-01	10B-088842	None Detected	Friable
Round Transite Lid (Miscellaneous)	Third Floor Over Hole in Floor	55	55-01	10B-088843	**17% Chrysotile**	Nonfriable
Stored Thermal Insulation (Thermal System Insulation)	Fourth Floor on Floor (Scattered)	61	61-01	10B-088862	None Detected	Friable
Stored Air-cell Insulation (Thermal System Insulation)	Fourth Floor on Floor (Scattered)	62	62-01	10B-088863	**55% Chrysotile**	Friable
Stored Vermiculite Insulation (Thermal System Insulation)	Fourth Floor on Floor (Scattered)	63	63-01	10B-088864	None Detected	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Pitch Layer (Miscellaneous)	Roof Top Layer	65	65-01	10B-10119	None Detected	Nonfriable
Brown Cellulose Layer (Miscellaneous)	Roof Second Layer	66	66-01	10B-10120	None Detected	Friable
Flashing North Wall (Miscellaneous)	North Wall Second Layer	67	67-01	10B-10121	None Detected	Nonfriable
The following samples were collected from the Old Boiler House						
1-Layer Plaster (Surfacing)	West Open Room	28	28-01	10B-08750	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Open Room	28	28-02	10B-08751	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Open Room	28	28-03	10B-08752	None Detected	Nonfriable
1-Layer Plaster on Chicken Wire (Surfacing)	Basement	29	29-01	10B-08753	**50% Chrysotile**	Friable
1-Layer Plaster on Chicken Wire (Surfacing)	Basement	29	29-02	10B-08754	**Stopped Analysis**	Friable
1-Layer Plaster on Chicken Wire (Surfacing)	Basement	29	29-03	10B-08755	**Stopped Analysis**	Friable
Pitch Layer (Miscellaneous)	Roof Top Layer	68	68-01	10B-10122	None Detected	Nonfriable
Light Weight Concrete Layer (Miscellaneous)	Roof Second Layer	69	69-01	10B-10123	None Detected	Nonfriable
Flashing North Wall (Miscellaneous)	South Wall	70	70-01	10B-10124	None Detected	Nonfriable
The following samples were collected from the Racking/Formation House						
1-Layer Plaster (Surfacing)	West Wall	56	56-01	10B-08844	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Wall	56	56-02	10B-08845	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Wall	56	56-03	10B-08846	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East Wall	56	56-04	10B-08847	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East Wall	56	56-05	10B-08848	None Detected	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
1-Layer Plaster (Surfacing)	Basement East Wall	56	56-06	10B-08849	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Basement North Wall	56	56-07	10B-08850	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	South Wall Storage	57	57-01	10B-08851	**7.0% Chrysotile**	Nonfriable
1-Layer Plaster (Surfacing)	South Wall Storage	57	57-02	10B-08852	**Stopped Analysis**	Nonfriable
1-Layer Plaster (Surfacing)	South Wall Storage	57	57-03	10B-08853	**Stopped Analysis**	Nonfriable
1-Layer Plaster (Surfacing)	Ceiling Storage	58	58-01	10B-08855	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Ceiling Storage	58	58-02	10B-08856	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	Ceiling Storage	58	58-03	10B-08857	None Detected	Nonfriable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Basement Dock Area	59	59-01	10B-08858	**5.0% Chrysotile**	Nonfriable
T. .pe Insulation w/ White Coating (Thermal Systems Insulation)	Basement Dock Area	59	59-02	10B-08859	**Stopped Analysis**	Nonfriable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Basement Dock Area	59	59-03	10B-08860	**Stopped Analysis**	Nonfriable
Tar Pipe Insulation w/ White Coating (Thermal Systems Insulation)	Second Floor South Wall	59	59-04	10B-10118	**5.0% Chrysotile**	Nonfriable
Window Glaze (Miscellaneous)	Basement North wall	60	60-01	10B-088861	**3.0% Chrysotile**	Friable
The following samples were collected from the Courtyard Area.						
Fire Hose Insulation (Miscellaneous)	Test Pit Middle of Field	64	64-01	10B-09445	None Detected	Nonfriable
The following samples were collected from the Racking Formation House						
Exterior Plaster (Surfacing)	East Exterior Wall	75	75-01	10B-10129	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East wall Debris South Wall	76	76-01	10B-10130	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	East wall Debris South Wall	76	76-02	10B-10131	None Detected	Nonfriable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
1-Layer Plaster (Surfacing)	West Wall under Cork Wall	77	77-01	10B-10132	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	West Wall under Cork Wall	77	77-02	10B-10133	None Detected	Nonfriable
Fire Door Insulation (Miscellaneous)	South Room Entrance	78	78-01	10B-10134	**60% Chrysotile**	Nonfriable
9"x9" Dark Grey Floor Tile (Miscellaneous)	South Room Floor	79	79-01A	10B-10135A	**1.5% Chrysotile**	Nonfriable
9"x9" Dark Grey Floor Tile Mastic (Miscellaneous)	South Room Floor	79	79-01B	10B-10135B	**1.5% Chrysotile**	Nonfriable
Window Glaze (Miscellaneous)	South Window	80	80-01	10B-10136	None Detected	Friable
Window Glaze (Miscellaneous)	South Stairwell Third Floor	80	80-02	10B-10137	None Detected	Friable
Window Glaze (Miscellaneous)	South Window Fourth Floor	80	80-03	10B-10138	None Detected	Friable
Wallboard (Miscellaneous)	South Room East Wall	81	81-01	10B-10139	None Detected	Friable
mal System Insulation Debris (Thermal System Insulation)	Third Floor Main Room	82	82-01	10B-10140	None Detected	Friable
Thermal System Insulation Debris (Thermal System Insulation)	Third Floor Main Room	82	82-02	10B-10141	None Detected	Friable
Thermal System Insulation Debris (Thermal System Insulation)	Third Floor South Stairwell	82	82-03	10B-10142	None Detected	Friable
Window Glaze (Miscellaneous)	Second Floor	83	83-01	10B-10143	**15% Chrysotile**	Friable
Window Glaze (Miscellaneous)	Third Floor	83	83-02	10B-10144	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Fourth Floor	83	83-03	10B-10145	**Stopped Analysis**	Friable
Pitch Layer (Miscellaneous)	Roof Top Layer	84	84-01	10B-10146	None Detected	Nonfriable
Roof Flashing (Miscellaneous)	Roof Flashing	85	85-01	10B-10147	None Detected	Nonfriable
Window Caulk (Miscellaneous)	Dock Office	92	92-01	10B-10166	**5.0% Chrysotile**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Window Caulk (Miscellaneous)	Dock Office	92	92-02	10B-10167	**Stopped Analysis**	Friable
Window Caulk (Miscellaneous)	Dock Office	92	92-03	10B-10168	**Stopped Analysis**	Friable
The following samples were collected from the Bottling/Wash House						
Pipe Insulation (Thermal System Insulation)	South Room Debris	86	86-01	10B-10148	**15% Chrysotile**	Friable
Pipe Insulation (Thermal System Insulation)	North Room Debris	86	86-02	10B-10149	**Stopped Analysis**	Friable
Pipe Insulation (Thermal System Insulation)	North Room Debris	86	86-03	10B-10150	**Stopped Analysis**	Friable
1-Layer Plaster (Surfacing)	North Room East Wall	87	87-01	10B-10151	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Room North Wall	87	87-02	10B-10152	None Detected	Nonfriable
1-Layer Plaster (Surfacing)	North Room South Wall	87	87-03	10B-10153	None Detected	Nonfriable
Thin 1-Layer Plaster (Surfacing)	North Room East Wall	88	88-01	10B-10154	None Detected	Friable
Thin 1-Layer Plaster (Surfacing)	North Room West Wall	88	88-02	10B-10155	None Detected	Friable
Thin 1-Layer Plaster (Surfacing)	North Room East Wall	88	88-03	10B-10156	None Detected	Friable
1-Layer Pliable Coating on Stone (Surfacing)	Exterior Wall Sixth Street Side	89	89-01	10B-10157	None Detected	Nonfriable
1-Layer Pliable Coating on Stone (Surfacing)	Exterior Wall Sixth Street Side	89	89-02	10B-10158	None Detected	Nonfriable
1-Layer Pliable Coating on Stone (Surfacing)	Exterior Wall Sixth Street Side	89	89-03	10B-10159	None Detected	Nonfriable
Window Caulk (Miscellaneous)	Sixth Street Side	90	90-01	10B-10160	**15% Chrysotile**	Friable
Window Caulk (Miscellaneous)	Sixth Street Side	90	90-02	10B-10161	**Stopped Analysis**	Friable
Window Caulk (Miscellaneous)	Sixth Street Side	90	90-03	10B-10162	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Sixth Street Side	91	91-01	10B-10163	**5.0% Chrysotile**	Friable

TABLE 1: BULK SAMPLE DATA SHEET
HUDEPOHL BREWERY IN CINCINNATI, OHIO

SAMPLE DESCRIPTION	SAMPLE LOCATION	HA #	SAMPLE I.D. NO.	LAB I.D. NO.	ASBESTOS CONTENT	FRIABLE NONFRIABLE
Window Glaze (Miscellaneous)	Sixth Street Side	91	91-02	10B-10164	**Stopped Analysis**	Friable
Window Glaze (Miscellaneous)	Sixth Street Side	91	91-03	10B-10165	**Stopped Analysis**	Friable

TABLE 2 – INVENTORY OF ASBESTOS-CONTAINING MATERIALS

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
The following items are located in the New Brew House						
Third Floor Office, HVAC Unit 794	1	RACM	Duct Insulation	Good	100 SF	$100.00
Third Floor Control Room	6	RACM	Metal Jacketed Line	Good	20 LF	$185.00
Third Floor Control Room	6	RACM	6" O.D. Line	Good	10 LF	$92.50
Third Floor Control Room	22	II	Insulated Fire Doors	Fair	6 Each	$600.00
Third Floor Restrooms Behind Walls	6	RACM	Pipe Insulation with Debris	Fair	30 LF	$277.50
Third Floor Restrooms Behind Walls	6	RACM	Pipe Insulation with Debris	Fair	30 LF	$277.50
Second Floor Control Room	1	RACM	Duct Insulation	Good	150 SF	$1,500.00
Second Floor Office	6	RACM	Pipe Insulation with Debris Above Ceiling	Poor	250 LF	$2,312.50
Second Floor Restrooms Behind Walls	6	RACM	Pipe Insulation with Debris	Fair	30 LF	$277.50
South Stairwell	22	II	Insulated Fire Door	Good	1 Each	$100.00
Ground Floor	6,7,8	RACM	Ground Floor Contaminated With Pipe Insulation Debris	Poor	6120 SF	$73,440.00
Ground Floor Running North to South	6	RACM	8"O.D. Line	Good	60 LF	$555.00
By Windows Ground Floor	6	RACM	6" O.D. Line	Poor	40 LF	$370.00
Middle of Room by Ceiling Ground Floor	6	RACM	4" O.D. Line	Fair	70 LF	$647.50

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Middle of Room by Ceiling Ground Floor	6	RACM	4" O.D. Line	Fair	25 LF	$231.25
West End Ground Floor	6	RACM	8" O.D. Line	Fair	110 LF	$1,017.50
West End Ground Floor	6	RACM	8" O.D. Line	Fair	60 LF	$555.00
The following items are located at the Old Boiler House						
Ground Floor	6,7,8	RACM	Ground Floor Contaminated With Pipe Insulation Debris	Poor	5400 SF	$64,800.00
Ground Floor Boilers Around-d the Edges and at Penetrations	13	RACM	Rope Boiler Gasket	Poor	300 LF	$6,000.00
Ground Floor Block Boiler Insulation	14	RACM	Block Boiler Insulation	Poor	2000 SF	$40,000.00
Ground Floor South of Boiler	10	RACM	Boiler Breeching	Fair	250 SF	$2,500.00
Ground Floor West Wall	6	RACM	Air Cell Pipe Insulation	Fair	130 LF	$1,202.50
Ground Floor South Wall	16	RACM	Grey one-layer Plaster	Poor	400 SF	$6,020.00
Second Floor on Floor	18	RACM	Boiler Breeching Debris	Poor	1800 SF	$21,600.00
Second Floor	35	RACM	Tank Insulation	Fair	400 SF	$3,940.00
Second Floor	35	RACM	Tank Insulation	Fair	400 SF	$3,940.00
Second Floor Far Wall	10	RACM	Boiler Breeching	Fair	265 SF	$2,650.00
Second Floor Throughout	8	RACM	12" O.D. pipe Insulation	Fair	340 LF	$3,145.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Second Floor By Bottom	8	RACM	12" O.D. pipe Insulation	Poor	30 LF	$277.50
Roof	20	II	Transite Debris from Demolished Building	Poor	300 SF	$1,800.00
Roof Cooling Tower	21	II	Flat Transite Panels	Good	1376 SF	$3,990.40
Roof Elevator Room	22	II	Insulated Fire Door	Poor	1 Each	$100.00
Roof Elevator Room	23	II	Window Glazing	Poor	1 Each	$100.00
Cellar Under Boiler House	6,7,8	RACM	Floor Contaminated With Pipe Insulation Debris	Poor	5400 SF	$64,800.00
Cellar Boiler Room	6,7,8	RACM	Floor Contaminated With Pipe Insulation Debris	Poor	1400 SF	$16,800.00
Cellar Boiler Room	6,7,8	RACM	Seven (7) Barrels of Stored Asbestos Containing Waste	Poor	7 Barrels	$1,000.00
Cellar Boiler Room	29	RACM	Plaster of Chicken Wire	Poor	300 SF	$4,515.00
The following items are located at the New Boiler & Engine House						
Smoke Stack Room	24	RACM	Pipe Insulation Debris on Floor	Poor	4455 SF	$53,460.00
Smoke Stack Room Square Boiler on Platform	25	RACM	Boiler Insulation	Poor	150 SF	$3,000.00
Smoke Stack Room Along South Wall	6	RACM	12" O.D. Pipe Insulation	Poor	200 LF	$1,850.00
Smoke Stack Room Throughout Room	6	RACM	6" O.D. Pipe Insulation	Poor	200 LF	$1,850.00
Motor Room w/ 5 Fans in North Window South Wall	30	RACM	12" O.D. Pipe Insulation	Poor	12 LF	$111.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Motor Room w/ 5 Fans in North Window By Engines	30	RACM	12" O.D. Pipe Insulation	Poor	20 LF	$185.00
Motor Room w/ 5 Fans in North Window By Engines	30	RACM	6" O.D. Pipe Insulation	Poor	60 LF	$555.00
Motor Room w/ 5 Fans in North Window	31	II	Window Glaze	Fair	680 LF	$2,862.80
Basement Bottom of Stairs	33	II	Transite Panels on Ceiling	Poor	64 SF	$185.60
Basement Bottom of Stairs	33	II	Transite Panels Debris	Poor	200 SF	$580.00
Basement Freight Elevator	78	II	Freight Elevator Fire Door Insulation	Good	2 Each	$400.00
Basement	35	RACM	Vertical 5' Tank Insulation	Fair	75 SF	$738.75
Basement	34	II	Stored Rope Gasket	Poor	20 LF	$100.00
Basement	36	RACM	Vertical 7' Tank Insulation	Poor	100 SF	$985.00
Basement	38	RACM	Vertical 10' Tank Insulation	Poor	150 SF	$1,477.50
Basement	37	RACM	Vertical 12' Tank Insulation	Poor	200 SF	$1,970.00
Basement	26	RACM	Thermal System Insulation with Debris	Poor	150 LF	$1,378.50
Basement	39	RACM	Tar Thermal System Insulation by Tanks	Fair	100 LF	$985.00
Basement	78	II	Insulated Fire Door	Fair	6 Each	$600.00
Third Floor Exterior Windows	43	II	Window Glaze	Poor	1000 LF	$4,210.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Third Floor	45	RACM	Vertical 7' Tank Insulation	Poor	150 SF	$1,477.50
Third Floor Locker Room Windows	46	II	Window Glaze	Poor	400 LF	$1,684.00
Third Floor by Vertical Tank	41	RACM	Air Cell Pipe Insulation	Poor	100 LF	$925.00
Third Floor by Vertical Tank	48	RACM	Stored Rolled Insulating Material Four Rolls @ ~ 10 SF per Roll	Poor	40 SF	$100.00
Third Floor Inside Breaker on North Wall	49	II	Black Transite Debris Four Rolls @ ~ 10 SF per Roll	Poor	40 SF	$480.00
Third Floor Scattered Throughout and on Work Bench	50	II	Stored Rolled Sheet Gasket Material	Poor	50 SF	$250.00
Third Floor by Boiler	51	RACM	Duct/Breeching Insulation	Poor	1500 SF	$15,000.00
Fourth Floor	55	II	Round Transite Cover	Good	100 SF	$290.00
Fourth Floor	41	RACM	Air-cell Pipe Insulation	Fair	70 LF	$647.50
Fourth Floor Exterior Windows	43	II	Window Glaze	Poor	1650 LF	$6,946.50
Fourth Floor	55	II	Transite Debris by Wooden Tank	Poor	60 SF	$360.00
Fourth Floor	41	RACM	Asbestos Containing Insulation Debris	Poor	2000 SF	$24,000.00
The following items are located at the Racking Fermentation House						
Storage Room South Wall	57	RACM	1-Layer Plaster	Fair	1320 SF	$19,866.00
Basement Dock	59	RACM	Cut-out Pipes on Ground with Tar with White Wrap	Poor	100 LF	$925.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
Basement Dock	60	II	Window Glazing	Fair	24 LF	$101.04
Second Floor North, East and West Walls	59	RACM	Tar and Cork Insulation on Walls	Fair	900 SF	$9,000.00
Second Floor South Wall	57	RACM	1-Layer Plaster	Fair	300 SF	$4,515.00
Second Floor South Room	79	I	9"x9" Dark Grey Floor Tile	Fair	1840 SF	$1,840.00
Second Floor	22	II	Insulated Fire Door	Fair	4 Each	$400.00
Third Floor	30	RACM	Layered Paper Pipe Insulation Debris	Poor	1840 SF	$18,400.00
Fourth Floor Stairwell	83	II	Window Caulk	Good	32 LF	$150.00
The following items are located at the Bottling/Wash House						
South Room Ground Floor	86	RACM	Pipe Insulation and Debris	Poor	25 LF	$231.25
North Room Ground Floor	86	RACM	Pipe Insulation and Debris	Poor	100 LF	$925.00
Second Floor	86	RACM	Pipe Insulation and Debris	Poor	200 LF	$1,850.00
Basement/Locker Room	86	RACM	Pipe Insulation and Debris	Poor	200 LF	$1,850.00
Basement/Locker Room Behind Walls	86 *	RACM	Pipe Insulation and Debris	Poor	100 LF	$925.00

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
The following items are located in Areas that were not Accessible and are assumed to be ACM						
The following items are located at the New Boiler & Engine House						
West Wall on Upper Levels Stairwell Cut-off	93*	RACM	Boiler Insulation under Metal Covering	Good	2800 SF	$56,000.00
West Wall on Upper Levels Stairwell Cut-off	94*	RACM	Tank Insulation under Metal Jacket	Good	2000 SF	$1,970.00
Basement Room not Accessible Due to ~ 5' Water at Entrance	95*	RACM	Boiler Insulation under Brick	Good	600 SF	$12,000.00
The following items are located in the New Brew House						
Pit by South Wall not Accessible Stairwell Cut-off	96*	RACM	Pipe Insulation and Debris	Good	600 LF	$10,000.00
The following items are located in the Trench in the Shipping Yard						
Trench in Court Yard Majority Cover by Soil	97*	RACM	Pipe Insulation and Debris	Good	200 LF	$1,850.00

Estimate Total	**$604,162.09**

Notes:
RACM Regulated Asbestos-Containing Material
Category I Non-Friable ACM - resilient floor covering, roofing products, gaskets and packings
Category II Non-Friable ACM - all other non-friable material
(a) Asbestos-containing homogeneous area number description:
* Assumed asbestos-containing material

Homogenous Area Numbers:
1 - Duct Insulation
6 - Aircell Pipe Insulation
7 - Pipe Fitting Insulation
8 - Layered Paper Pipe Insulation
9 - Pipe Insulation Debris
10 - Boiler Breeching

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal

12 - Woven Boiler Gasket
13 - Rope Boiler Gasket
14 - Block Boiler Insulation
16 - Grey One-layer Plaster
18 - Boiler Breeching
19 - Window Glazing
20 - Corrugated Transite Debris
21 - Flat Transite Panels
22 - Fire Door Insulation
23 - Window Glazing
24 - Thermal System Insulation Debris
25 - Boiler Insulation
26 - Thermal System Insulation Debris
29 - 1-layer Plaster on Chicken Wire
30 - Layered Paper Pipe Insulation
31 - Window Glaze
33 - Transite Ceiling Panels
34 - Rope Gasket
35 - Tank Insulation
36 - Tank Insulation
37 - Tank Insulation
39 - Tar Tank Insulation
41 - Air-cell Paper Pipe Insulation
42 - Mud Fitting Insulation
43 - Window Glaze
45 - Tank Insulation
46 - Window Glaze
47 - Black Transite Panel
48 - Rolled Stored Insulation
49 - Black Transite Debris
50 - Gasket Sheeting
51 - Duct Insulation

TABLE 2- ASBESTOS
INVENTORY - HUDEPOHL BREWERY IN CINCINNATI, OHIO

Location	Homogeneous Area #	NESHAPS Category	Material Description	Material Condition	Amt. of Material (approx.)	Estimated Cost for Removal
53 - Rope Gasket						
55 - Round Transite Lid						
57 - 1-layer Plaster						
59 - Tar Pipe Insulation w/ White Coating						
60 - Window Glaze						
62 - Stored Air-cell Insulation						
72 - Asphalt Shingle						
78 - Fire Door Insulation						
79 - 9"x9" Dark Grey Floor Tile						
83 - Window Glaze						
86 - Pipe Insulation						
90 - Window Caulk						
91 - Window Glaze						
92 - Window Caulk						

APPENDIX A – INSPECTOR ACCREDITATIONS

State of Ohio
Department of Health
Division of Quality Assurance - Asbestos Program

Asbestos Hazard Evaluation Specialist

Michael R Bossert
ATC Associates Inc
11121 Canal Road
Cincinnati OH 45241

Certification Number
ES31438

Expiration Date
08/12/2010

DOB: 08/05/1963

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701-34 of the Ohio Administrative Code

Certification Card is not valid if altered

The InService Training Network

Asbestos Building Inspector
Refresher Course

Mike Bossert

has successfully completed the Asbestos Building Inspector Refresher Course and passed by at least 70%
the course examination for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2
Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: May 12, 2010

Course Director: Kurt Varga

Expiration Date: May 12, 2011

Examination Date: May 12, 2010

Course Location: Cincinnati, Ohio

Certificate Number: ITN-IR-4130

© 1995 GOES 2345

LITHO IN U.S.A.

The InService Training Network

Asbestos Management Planner
Refresher Course

Mike Bossert

has successfully completed the Asbestos Management Planner Refresher Course and passed by at least 70%
the course examination for accreditation under Section 206 of the Toxic Substance Control Act, Title II, and Indiana 326 IAC 18-2.
Provided by: The InService Training Network, Inc., 6813 Flags Center, Columbus, OH 43229 (614) 895-9323

Course Dates: May 12, 2010

Course Director: Kurt Varga

Expiration Date: May 12, 2011

Examination Date: May 12, 2010

Course Location: Cincinnati, Ohio

Certificate Number: ITN-MR-4130

© 1995 GOES 2345

LITHO IN U.S.A.

APPENDIX B – BULK SAMPLE LABORATORY REPORT

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery - Cincinnati, Ohio
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 06/18/10 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
01-01	10B-08761	Grey	CHRY	35.0	CELL	10.0	Insulation
01-02	10B-08762	Sample was not analyzed per the positive stop instructions.					
01-03	10B-08763	Sample was not analyzed per the positive stop instructions.					
02-01	10B-08764	Grey/White	ND	ND	CELL/FBGL	45.0/10.0	Ceiling Tile
02-02	10B-08765	Grey/White	ND	ND	CELL/FBGL	45.0/10.0	Ceiling Tile
02-03	10B-08766	Grey/White	ND	ND	CELL/FBGL	45.0 / 5.0	Ceiling Tile
03-01	10B-08767	Black	ND	ND	ND	ND	Material
04-01	10B-08768	Grey/Green	ND	ND	ND	ND	Caulking
04-02	10B-08769	Grey/Green	ND	ND	ND	ND	Caulking
05-01	10B-08770	Grey	ND	ND	FBGL	2.0	Material
05-02	10B-08771	Grey	ND	ND	FBGL	2.0	Material
06-01	10B-08772	Grey	CHRY	50.0	CELL	10.0	Insulation
06-02	10B-08773	Sample was not analyzed per the positive stop instructions.					
07-01	10B-08774	Grey	CHRY	35.0	ND	ND	Insulation
07-02	10B-08775	Sample was not analyzed per the positive stop instructions.					
08-01	10B-08776	Brown/Grey	CHRY	20.0	CELL	60.0	Insulation
09-01	10B-08777	Grey	CHRY	20.0	FBGL	5.0	Insulation
09-02	10B-08778	Sample was not analyzed per the positive stop instructions.					
09-03	10B-08779	Sample was not analyzed per the positive stop instructions.					
10-01	10B-08780	White	AMOS/CHRY	3.0 / 8.0	ND	ND	Insulation
10-02	10B-08781	Sample was not analyzed per the positive stop instructions.					
10-03	10B-08782	Sample was not analyzed per the positive stop instructions.					
11-01	10B-08783	Grey/Red	ND	ND	ND	ND	Plaster
11-02	10B-08784	Grey/Red	ND	ND	ND	ND	Plaster
11-03	10B-08785	Grey/Red	ND	ND	ND	ND	Plaster

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/4/2010
Turnaround Time:	Normal
Report Issue Date:	6/18/2010
Sample Set Number:	72.90772.5594

NVLAP® LAB CODE: 200471-0

Analyst Signature:

Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery - Cincinnati, Ohio
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 06/18/10 **Page Number:** 2 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
12-01	10B-08786	Grey	CHRY	60.0	ND	ND	Insulation
13-01	10B-08787	Grey	CHRY	85.0	ND	ND	Insulation
14-01	10B-08788	White	CHRY	40.0	ND	ND	Insulation
15-01	10B-08789	Tan	ND	ND	ND	ND	Refractive Mud
15-02	10B-08790	Tan	ND	ND	ND	ND	Refractive Mud
15-03	10B-08791	Tan	ND	ND	ND	ND	Refractive Mud
16-01	10B-08792	Grey	ND	ND	CELL	1.0	Plaster
16-02	10B-08793	Grey	CHRY	2.5	ND	ND	Plaster
16-03	10B-08794	Grey	ND	ND	ND	ND	Plaster
17-01	10B-08795	Black/Brown	ND	ND	ND	ND	Material
17-02	10B-08796	Black/Brown	ND	ND	ND	ND	Material
17-03	10B-08797	Black/Brown	ND	ND	ND	ND	Material
18-01	10B-08798	Grey	CHRY	35.0	ND	ND	Insulation
18-02	10B-08799	Sample was not analyzed per the positive stop instructions.					
18-03	10B-08800	Sample was not analyzed per the positive stop instructions.					
19-01	10B-08801	Grey	CHRY	3.5	ND	ND	Caulking
20-01	10B-08802	Grey/White	CHRY	20.0	ND	ND	Transite
21-01	10B-08803	Grey/White	CHRY	17.0	ND	ND	Transite
22-01	10B-08804	Grey	CHRY	60.0	CELL	10.0	Insulation
23-01	10B-08805	Tan	CHRY	2.0	ND	ND	Caulking

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/4/2010
Turnaround Time:	Normal
Report Issue Date:	6/18/2010
Sample Set Number:	72.90772.5594

NVLAP® **LAB CODE: 200471-0**

Analyst Signature: Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Sample Submittal Form for Analytical Services

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771-2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd
Cincinnati Ohio 45241

Project Name: Hyde Park Brewery
Cincinnati Ohio
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

(Normal) 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

(Bulk Asbestos (PLM)) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
01-01	10B-08761
01-02	
01-03	
02-01	
02-02	
02-03	
03-01	
04-01	
04-02	
05-01	
05-02	
06-01	
06-02	
07-01	
07-02	
08-01	
09-01	
09-02	
09-03	
10-01	
10-02	
10-03	
11-01	
11-02	
11-03	10B-08785

Sample Number	Laboratory Number
12-01	10B-08786
13-01	
14-01	
15-01	
15-02	
15-03	
16-01	
16-02	
16-03	
17-01	
17-02	
17-03	
18-01	
18-02	
18-03	
19-01	
20-01	
21-01	
22-01	
23-01	10B-08805

Special Instructions:
Stop at First Positive per homogenous Area.
Email Results to bossert72@atc-enviro.com

Chain of Custody

Relinquished By:	Date / Time	Received By:
Michael Bossert	6/4/10 / 0800	
	6-8-10 / 11:00	Storage
	/	
	/	
	/	

Supplemental Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.

Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc

Address: 11121 Canal Rd. Cincinnati, Ohio 45241

Project Name: Hudepohl Brewery

Project Number: / P.O. Number: 72.05876.0884 / N/A

Date Analyzed: 6/14-16/2010 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
24-01	10B-08738	White	AMOS/CHRY	20.0/10.0	CELL	<1.0	Insulation
24-02	10B-08739	Sample not analyzed per positive stop instructions.					
24-03	10B-08740	Sample not analyzed per positive stop instructions.					
25-01	10B-08741	Grey	CHRY	50.0	CELL	<1.0	Insulation
25-02	10B-08742	Sample not analyzed per positive stop instructions.					
25-03	10B-08743	Sample not analyzed per positive stop instructions.					
26-01	10B-08744	Grey/White	AMOS/CHRY	20.0/15.0	SYNTH/CELL	5.0/<1.0	Insulation
26-02	10B-08745	Sample not analyzed per positive stop instructions.					
26-03	10B-08746	Sample not analyzed per positive stop instructions.					
27-01	10B-08747	Black/Brown	ND	ND	CELL	<1.0	Tar/Cork
27-02	10B-08748	Black/Brown	ND	ND	CELL	<1.0	Tar/Cork
27-03	10B-08749	Black/Brown	ND	ND	CELL	<1.0	Tar/Cork
28-01	10B-08750	White	ND	ND	CELL	<1.0	Plaster
28-02	10B-08751	White	ND	ND	CELL	<1.0	Plaster
28-03	10B-08752	White	ND	ND	CELL	<1.0	Plaster
29-01	10B-08753	Grey	CHRY	50.0	CELL	<1.0	Insulation
29-02	10B-08754	Grey	CHRY	40.0	FBGL/CELL	<1.0/<1.0	Insulation
29-03	10B-08755	Grey	CHRY	50.0	FBGL/CELL	<1.0/<1.0	Insulation
30-01	10B-08756	White	CHRY	60.0	CELL	<1.0	Insulation
30-02	10B-08757	Sample not analyzed per positive stop instructions.					
30-03	10B-08758	Sample not analyzed per positive stop instructions.					
31-01	10B-08759	Grey/White	CHRY	3.0	CELL	<1.0	Caulking
32-01	10B-08760	White	ND	ND	CELL	<1.0	Material

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Initial Report Issue:	6/15/2010
Sample Set Number:	72.90772.5589

NVLAP® **LAB CODE: 200471-0**

Analyst Signature:

James R Jones, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Sample Submittal Form for Analytical Services

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: ATC Associates Inc
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771-2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd
Cincinnati Ohio 45241

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days (circled)	Rush 24 to 48 hours	Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) (circled)	Air Asbestos (NIOSH 7400)	Lead Analysis	Biological	TEM

Sample Log

Sample Number	Laboratory Number	Sample Number	Laboratory Number
24-01	10B-08738		
24-02	↓		
24-03			
25-01			
25-02			
25-03			
26-01			
26-02			
26-03			
27-01			
27-02			
27-03			
28-01			
28-02			
28-03			
29-01			
29-02			
29-03			
30-01			
30-02			
30-03			
31-01			
32-01	10B-08760		

Special Instructions:
Stop at first positive per homogenous area
Email results to Mike Bossert @ bossert72@atc-enviro.com

Chain of Custody

Relinquished By:	Date / Time	Received By:
Michael Bossert	6-7-10 / 0755	[signature]
[signature]	6-8-10 / 11:10	Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 6/22/10 - 6/24/10 **Page Number:** 1 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
33-01	10B-08806	Grey/White	CHRY	8.0	ND	ND	Transite
34-01	10B-08807	Grey	CHRY	90.0	ND	ND	Material
35-01	10B-08808	White/Grey	AMOS/CHRY	20.0/45.0	ND	ND	Insulation
35-02	10B-08809	Sample was not analyzed per the positive stop instructions.					
36-01	10B-08810	White	AMOS/CHRY	20.0/10.	ND	ND	Insulation
36-02	10B-08811	Sample was not analyzed per the positive stop instructions.					
36-03	10B-08812	Sample was not analyzed per the positive stop instructions.					
37-01	10B-08813	White	AMOS/CHRY	12.0/35.0	ND	ND	Insulation
37-02	10B-08814	Sample was not analyzed per the positive stop instructions.					
37-03	10B-08815	Sample was not analyzed per the positive stop instructions.					
38-01	10B-08816	Black	ND	ND	ND	ND	Material
39-01	10B-08817	Brown	AMOS	7.0	ND	ND	Material
39-02	10B-08818	Sample was not analyzed per the positive stop instructions.					
39-03	10B-08819	Sample was not analyzed per the positive stop instructions.					
40-01	10B-08820	Grey	ND	ND	CELL	90.0	Insulation
41-01	10B-08821	Grey	CHRY	40.0	CELL	5.0	Insulation
42-01	10B-08822	Grey	CHRY	25.0	ND	ND	Insulation
43-01	10B-08823	Grey	CHRY	3.5	ND	ND	Caulking
43-02	10B-08824	Sample was not analyzed per the positive stop instructions.					
43-03	10B-08825	Sample was not analyzed per the positive stop instructions.					
44-01	10B-08826	Yellow	ND	ND	SYNTH	90.0	Material
45-01	10B-08827	Grey/Brown	CHRY	30.0	CELL	5.0	Insulation
45-02	10B-08828	Sample was not analyzed per the positive stop instructions.					
45-03	10B-08829	Sample was not analyzed per the positive stop instructions.					
46-01	10B-08830	Tan	CHRY	1.5	ND	ND	Caulking

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Report Issue Date:	6/24/2010
Sample Set Number:	72.90772.5599

NVLAP® LAB CODE: 200471-0

Analyst Signature:

Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 6/22/10 - 6/24/10 **Page Number:** 2 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
46-02	10B-08831	Sample was not analyzed per the positive stop instructions.					
46-03	10B-08832	Sample was not analyzed per the positive stop instructions.					
47-01	10B-08833	Brown/White	CHRY	20.0	ND	ND	Material
48-01	10B-08834	Grey	CHRY	45.0	ND	ND	Insulation
49-01	10B-08835	Black/White	CHRY	8.0	ND	ND	Material
50-01	10B-08836	Grey	CHRY	20.0	ND	ND	Material
51-01	10B-08837	White	CHRY	25.0	ND	ND	Insulation
51-02	10B-08838	Sample was not analyzed per the positive stop instructions.					
51-03	10B-08839	Sample was not analyzed per the positive stop instructions.					
52-01	10B-08840	White	ND	ND	SYNTH	90.0	Material
53-01	10B-08841	White	CHRY	50.0	SYNTH	40.0	Material
54-01	10B-08842	Grey/Black	ND	ND	CELL	65.0	Material
55-01	10B-08843	Grey/White	CHRY	17.0	ND	ND	Transite
56-01	10B-08844	Grey	ND	ND	ND	ND	Plaster
56-02	10B-08845	Grey	ND	ND	ND	ND	Plaster
56-03	10B-08846	Grey	ND	ND	ND	ND	Plaster
56-04	10B-08847	Grey	ND	ND	ND	ND	Plaster
56-05	10B-08848	Grey	ND	ND	ND	ND	Plaster
56-06	10B-08849	Grey	ND	ND	ND	ND	Plaster
56-07	10B-08850	Grey	ND	ND	ND	ND	Plaster
57-01	10B-08851	Black/White	CHRY	7.0	ND	ND	Material
57-02	10B-08852	Sample was not analyzed per the positive stop instructions.					
57-03	10B-08853	Sample was not analyzed per the positive stop instructions.					

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Report Issue Date:	6/24/2010
Sample Set Number:	72.90772.5599

NVLAP® LAB CODE: 200471-0

Analyst Signature: Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.

Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc

Address: 11121 Canal Rd. Cincinnati, Ohio 45241

Project Name: Hudepohl Brewery

Project Number: / P.O. Number: 72.05876.0884 / N/A

Date Analyzed: 6/22-23/2010 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
58-01	10B-08855	White/Grey	ND	ND	SYNTH/CELL	<1.0/<1.0	Plaster
58-02	10B-08856	White/Grey	ND	ND	SYNTH/CELL	<1.0/<1.0	Plaster
58-03	10B-08857	White/Grey	ND	ND	SYNTH/CELL	<1.0/<1.0	Plaster
59-01	10B-08858	White/Black	CHRY	5.0	CELL	10.0	Material
59-02	10B-08859	Sample not analyzed per positive stop instructions.					
59-03	10B-08860	Sample not analyzed per positive stop instructions.					
60-01	10B-08861	Grey	CHRY	3.0	CELL	<1.0	Caulking
61-01	10B-08862	Lt. Grey	ND	ND	FBGL/CELL	<1.0/30.0	Insulation
62-01	10B-08863	Lt. Grey	CHRY	55.0	CELL	<1.0	Insulation
63-01	10B-09138	Brown	ND	ND	CELL	30.0	Insulation

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/8/2010
Turnaround Time:	Normal
Report Issue Date:	6/23/2010
Sample Set Number:	72.90772.5597

NVLAP® **LAB CODE: 200471-0**

Analyst Signature:

James R Jones, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Sample Submittal Form for Analytical Services

Client Information

Company Name: ATC Associates Inc
Report Results to: M. Ko Bosset
Fax Number: 513 782 6908
Phone Number: 513 771 2112
E-mail Address: bosset72@atc-enviro.com
Address: 11121 Canal Rd
Cincinnati Ohio 45241

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

(Normal) 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

(Bulk Asbestos (PLM)) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
58-01	10B-08855
58-02	
58-03	
59-01	
59-02	
59-03	
60-01	
61-01	
62-01	10B-08863
63-01	10B-09138

Sample Number	Laboratory Number

Special Instructions:
Stop at first positive per homogenous area
Present results to M. Ko Bosset by electronic mail at bosset72@atc-enviro.com

Chain of Custody

Relinquished By:	Date / Time	Received By:
Michael J Bosset	6/8/10 / 0700	John
John	6-8-10 / 11:30	J J Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc.
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 07/02/10 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
64-01	10B-09445	Tan	ND	ND	SYNTH	85.0	Material

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	6/24/2010
Turnaround Time:	Normal
Report Issue Date:	7/2/2010
Sample Set Number:	72.90772.5605

NVLAP® LAB CODE: 200471-0

Analyst Signature: Leandro A. Llambi

Leandro A. Llambi, Laboratory Director

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

Sample Submittal Form for Analytical Services

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771 2112
E-mail Address: bossert72@atc-enviro.com
Address: 11121 Canal Rd
Cincinnati Ohio

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal
3 to 5 days

Rush
24 to 48 hours

Emergency Rush
less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM)

Air Asbestos (NIOSH 7400)

Lead Analysis

Biological

TEM

Sample Log

Sample Number	Laboratory Number
C4-01	10B-09445

Sample Number	Laboratory Number

Special Instructions:

Chain of Custody

Relinquished By:	Date/Time	Received By:
Michael Bossert	6-24-01 1600	
	6-28-01 8:30	Storage
	/	
	/	
	/	

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepol Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 7/19/10-7/20/10 **Page Number:** 1 of 3

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
59-04	10B-10118	Black	CHRY	5.0	CELL/FBGL	1.0/2.0	Roof Material
65-01	10B-10119	Black/Brown	ND	ND	CELL	15.0	Roof Material
66-01	10B-10120	Tan	ND	ND	CELL	<1.0	Plaster
67-01	10B-10121	Black	ND	ND	CELL	60.0	Roof Material
68-01	10B-10122	Black	ND	ND	CELL	40.0	Roof Material
69-01	10B-10123	Tan	ND	ND	CELL	<1.0	Plaster
70-01	10B-10124	Black	ND	ND	CELL	40.0	Roof Material
71-01	10B-10125	Black	ND	ND	CELL	10.0	Roof Material
72-01	10B-10126	Black	CHRY	5.0	CELL	25.0	Roof Material
73-01	10B-10127	Black	ND	ND	CELL	5.0	Roof Material
74-01	10B-10128	Grey	ND	ND	CELL	<1.0	Plaster
75-01	10B-10129	Grey	ND	ND	CELL	<1.0	Plaster
76-01	10B-10130	Grey	ND	ND	CELL	<1.0	Plaster
76-02	10B-10131	Grey	ND	ND	CELL	<1.0	Concrete
77-01	10B-10132	Grey	ND	ND	CELL	<1.0	Concrete
77-02	10B-10133	Grey	ND	ND	CELL	<1.0	Concrete
78-01	10B-10134	Grey	CHRY	60.0	CELL	1.0	Insulation
79-01	10B-10135A	Brown	CHRY	1.5	CELL	<1.0	Floor Tile
79-01	10B-10135B	Black	CHRY	1.5	CELL	<1.0	Mastic
80-01	10B-10136	Grey	ND	ND	CELL	<1.0	Plaster
80-02	10B-10137	Grey	ND	ND	CELL	<1.0	Plaster
80-03	10B-10138	Grey	ND	ND	CELL	<1.0	Plaster
81-01	10B-10139	Grey/Tan	ND	ND	CELL	10.0	Drywall
82-01	10B-10140	Tan	ND	ND	CELL/FBGL	<1.0/10.0	Insulation
82-02	10B-10141	Tan	ND	ND	CELL/FBGL	<1.0	Insulation

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	7/11/2010
Turnaround Time:	Normal
Report Issue Date:	7/21/2010
Sample Set Number:	72.90772.5624

NVLAP LAB CODE: 200471-0

Analyst Signature: Helen M. Bray

Helen M. Bray, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepol Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 7/19/10-7/20/10 **Page Number:** 2 of 2

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
82-03	10B-10142	Tan	ND	ND	CELL/FBGL	<1.0/10.0	Insulation
83-01	10B-10143	Grey	CHRY	15.0	CELL	<1.0	Material
83-02	10B-10144	Positive stop analysis per client request					
83-03	10B-10145	Positive stop analysis per client request					
84-01	10B-10146	Black	ND	ND	CELL	20.0	Roof Material
85-01	10B-10147	Black	ND	ND	CELL	10.0	Roof Material
86-01	10B-10148	White	CHRY	15.0	CELL	<1.0	Insulation
86-02	10B-10149	Positive stop analysis per client request					
86-03	10B-10150	Positive stop analysis per client request					
87-01	10B-10151	Grey	ND	ND	CELL	<1.0	Plaster
87-02	10B-10152	Grey	ND	ND	CELL	<1.0	Plaster
87-03	10B-10153	Grey	ND	ND	CELL	<1.0	Plaster
88-01	10B-10154	Grey	ND	ND	CELL	<1.0	Plaster
88-02	10B-10155	Grey	ND	ND	CELL	<1.0	Plaster
88-03	10B-10156	Grey	ND	ND	CELL	<1.0	Plaster
89-01	10B-10157	Grey	ND	ND	CELL	<1.0	Plaster
89-02	10B-10158	Grey	ND	ND	CELL	<1.0	Plaster
89-03	10B-10159	Grey	ND	ND	CELL	<1.0	Plaster
90-01	10B-10160	Grey/Tan	CHRY	15.0	CELL	<1.0	Caulk
90-02	10B-10161	Positive stop analysis per client request					
90-03	10B-10162	Positive stop analysis per client request					
91-01	10B-10163	Grey/Tan	CHRY	5.0	CELL	<1.0	Caulk
91-02	10B-10164	Positive stop analysis per client request					
91-03	10B-10165	Positive stop analysis per client request					
92-01	10B-10166	Grey/Tan	CHRY	5.0	CELL	<1.0	Caulk

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	7/11/2010
Turnaround Time:	Normal
Report Issue Date:	7/21/2010
Sample Set Number:	72.90772.5624

NVLAP® LAB CODE: 200471-0

Analyst Signature: Helen M. Bray

Helen M. Bray, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6988

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepol Brewery
Project Number: / P.O. Number: 72.05876.0884
Date Analyzed: 7/19/10-7/20/10 **Page Number:** 3 of 3

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
92-02	10B-10167			Positive stop analysis per client request			
92-03	10B-10168			Positive stop analysis per client request			

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	7/11/2010
Turnaround Time:	Normal
Report Issue Date:	7/21/2010
Sample Set Number:	72.90772.5624

NVLAP® LAB CODE: 200471-0

Analyst Signature: Helen M. Bray

Helen M. Bray, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

Sample Submittal Form for Analytical Services

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: ATC Associates Inc.
Report Results to: Mike Bossert
Fax Number: 513 782 6908
Phone Number: 513 771 2112
E-mail Address: bossert72@atc-envro.com
Address: 11121 Canal Rd Cincinnati Ohio 45241

Project Name: Hudepohl Brewery
Project Number: 72.05876.0884
P.O. Number:
Billing Address:

Turnaround Time (Circle One)

Normal 3 to 5 days | Rush 24 to 48 hours | Emergency Rush less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number
59-04	10B-10118
65-01	
66-01	
67-01	
68-01	
69-01	
70-01	
71-01	
72-01	
73-01	
74-01	
75-01	
76-01	
76-02	
77-01	
77-02	
78-01	
79-01	
80-01	
80-02	
80-03	
81-01	
82-01	
82-02	
82-03	10B-10142

Sample Number	Laboratory Number
83-01	10B-10143
83-02	
83-03	
84-01	
85-01	
86-01	
86-02	
86-03	
87-01	
87-2	
87-3	
88-1	
88-2	
88-3	
89-01	
89-02	
89-03	
90-01	
90-02	
90-03	
91-01	
91-02	
91-03	
92-01-01	
92-01-02	
92-01-03	10B-10144

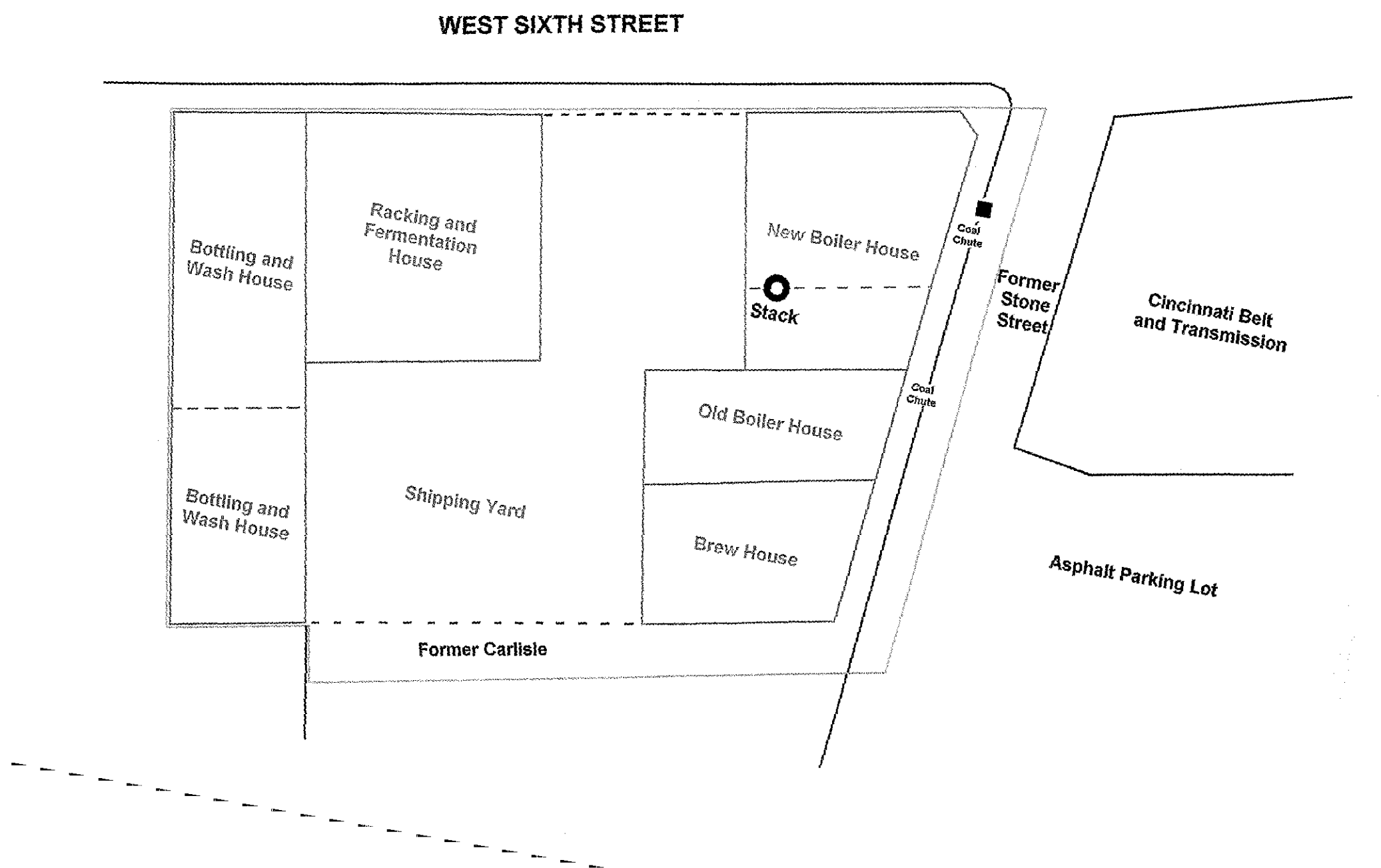
Special Instructions:
Stop at first positive per homogenous area

Chain of Custody

Relinquished By:	Date/Time	Received By:
	7-7-10 / 1700	
	7.11.10 / 1636	Storage
	/	
	/	
	/	

APPENDIX C – SITE DRAWINGS

Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio



APPENDIX I

Prepared For:

Hudepohl Square LLC
c/o Mr. Sy Safi
GCCM Construction Services, LLC
P.O. Box 434
Union, Kentucky 41091-0434

City of Cincinnati
Attn: Ms. Bonnie Philips
Office of Environmental Quality
805 Central Avenue - Suite 320
Cincinnati, Ohio 45202

Prepared By:

11121 Canal Road
Cincinnati, Ohio 45241
(513) 771-2112

LEAD-BASED PAINT INSPECTION
FORMER HUDEPOHL BREWERY
801 WEST SIXTH STREET
CINCINNATI, OHIO
ATC PROJECT NO. 72.05876.0884

Prepared by: Mike Bryson
Lead Risk Assessor (#LA-006191)

Reviewed by: Jasen Holton
Building Science Department Manager

December 15, 2010

TABLE OF CONTENTS

1.0 DISCLOSURE STATEMENT 1

2.0 EXECUTIVE SUMMARY 2

3.0 INTRODUCTION 3

3.1 LEAD ASSESSMENT TEAM 3
3.2 SITE DESCRIPTION & PHYSICAL CHARACTERISTICS 3
3.3 PURPOSE OF EVALUATION 4
3.4 EVALUATION METHODOLOGY 4
3.5 LBP THRESHOLD LIMITS 4

4.0 LEAD SAMPLING AND ANALYTICAL PROCEDURES 6

5.0 SURVEY RESULTS 8

6.0 CONCLUSIONS 9

7.0 ASSUMPTIONS AND LIMITATIONS 11

TABLES

Table 1 - Summary of Lead-Based Paint Components, Locations, Approximate Quantities and Recommended Abatement Methods
Table 2 - RMD LPA-1 Sequential Report

APPENDICES

Appendix A: Personnel and Firm Licenses
Appendix B: RMD LPA-1 Performance Characteristic Sheet

1.0 DISCLOSURE STATEMENT

The Ohio Department of Health requires that the following statement be displayed at the top of this report.

Ohio law (section 5302.30 of the Revised Code) requires every person that intends to transfer any residential real property by sale, land installment contract, lease with option to purchase, exchange, or lease for a term of ninety-nine years and renewable forever, to complete and provide a copy to the prospective transferee of the applicable property disclosure forms, disclosing known hazardous conditions of the property, including lead-based paint hazards.

Federal law (24 CFR part 35 and 40 CFR part 745) requires sellers and lessors of residential units constructed prior to 1978, except housing for the elderly or persons with disabilities (unless any child who is less than six years of age resides or is expected to reside in such housing) or any zero bedroom dwelling to disclose and provide a copy of this report to new purchasers or lessees before they become obligated under a lease or sales contract. Property owners and sellers are also required to distribute an educational pamphlet approved by the United States environmental protection agency and include standard warning language in leases or sales contracts to ensure that parents have the information they need to protect children from lead-based paint hazards.

2.0 EXECUTIVE SUMMARY

ATC Associates Inc. (ATC) was retained by the City of Cincinnati to perform a Lead-Based Paint (LBP) inspection at the Former Hudepohl Brewery located at 801 West 6th Street in Cincinnati, Ohio. These services were performed in accordance with the Department of Housing and Urban Development (HUD) 24 CFR Part 35 "*Requirements for Notification, Evaluation and Reduction of LBP Hazards in Housing Receiving Federal Assistance and Federally Owned Residential Property Being Sold*"(September 15, 1999) Final Rule. The site visits were performed on June 4, 7, and July 6 and 7, 2010. The location consisted of five buildings: i) New Brew House, ii) Old Boiler House, iii) New Boiler House, iv) Racking and Fermentation House, and v) Bottle/Wash House. This report summarizes the findings of the LBP inspection.

The LBP inspection was performed using an X-ray Fluorescence (XRF) Analyzer. Field protocols and methodologies were designed to meet those standards established by HUD Guidelines and EPA 40 CFR Part 745.227 *"Work Practice Standards for Conducting Lead-Based Paint Activities in Target Housing and Child Occupied Facilities."*

The building components listed in Table 1 were identified as potential LBP Hazards. Each surface was observed to be in defective condition (fair or poor) and found by XRF analysis to contain lead in concentrations at or above 1.0 mg/cm^2 or 0.5% lead by weight. Table 1 also includes component surfaces that were in an intact condition at the time of the inspection. All LBP, regardless of condition, has the potential to become a LBP hazard if disturbed.

HUD LBP regulations require elimination of all LBP hazards from a federally subsidized property. The time frame for hazard reduction is based upon the requirements of the funding program. LBP hazards should be prioritized based upon the following guidelines:

1. Units occupied by children less than six years of age.
2. Common areas accessible to children under six years of age.
3. Remaining units or common areas prioritized based upon concentration of dust levels and number LBP components and severity of deteriorated paint.

At minimum, interim controls such as paint stabilization and dust cleaning should be performed. Abatement can be substituted for interim controls on any surface. Prior to disturbing lead-containing paints, all persons are responsible for complying with the OSHA Lead in Construction Standard 29 CFR 1926.62.

3.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by the City of Cincinnati to perform a Lead-Based Paint (LBP) inspection at the Hudepohl Brewery Facility located at 801 West 6th Street in Cincinnati, Ohio. The LBP inspection was performed in accordance with the requirements and protocols established by the Department of Housing and Urban Development (HUD) 24 CFR Part 35 "*Requirements for Notification, Evaluation and Reduction of LBP Hazards in Housing Receiving Federal Assistance and Federally Owned Residential Property Being Sold*"(September 15, 1999) Final Rule.

3.1 Lead Assessment Team

Mr. Michael Bryson, Environmental Technician with ATC's Cincinnati office, performed the LBP inspection on June 4, 7, and July 6 and 7, 2010. Mr. Bryson is an Ohio/EPA Licensed Lead Risk Assessor (License # LA-006091, expiring November 26, 2011). A copy of Mr. Bryson's Lead Risk Assessor license is included in Appendix A.

3.2 Site Description & Physical Characteristics

Property Address:	801 West Sixth Street Cincinnati, Ohio
Property Owner:	Hudepohl Square LLC P.O. Box 434 Union, Kentucky 41091-0434
Owner Telephone:	N/A

Estimated Construction Date:	1900, 1909, 1946, 1947, 1961
No. of Buildings:	5
No. of Units:	N/A
No. of Units Assessed	N/A
Building Type:	Former Brewery
Construction Type:	Brick
No. Levels:	1 to 5

3.3 Purpose of Evaluation

The purpose of the evaluation was to identify building components coated with LBP at the site, and to provide recommendations for the prioritization and elimination of identified LBP hazards. ATC's recommendations include both interim control and permanent abatement options to address each potential hazard identified at the property.

3.4 Evaluation Methodology

Testing was performed according to the procedures identified in:

- Revised 1997 Chapter 7 of the June 1995 HUD Guidelines and the XRF-specific Performance Characteristic Sheet methodology,
- United States Environmental Protection Agency (USEPA) 40 CFR Part 745.227(b) and(d), and
- Revised 1997 Chapter 5 of the June 1995 HUD Guidelines

3.5 LBP Threshold Limits

In classifying our findings ATC applied LBP hazard thresholds established in:

- USEPA 40 CFR Part 745 Lead; Identification of Dangerous Levels of Lead; Final Rule (January 5, 2001), and
- HUD 24 CFR Part 35-Lead: "Requirements for Notification, Evaluation and Reduction of LBP Hazards in Housing Receiving Federal Assistance and Federally Owned Residential Property Being Sold" (September 15, 1999)

The following standard was applied:

Paint: 1.0 milligrams per square centimeter (mg/cm^2) or 0.5% (5,000 parts per million) lead by weight

An assessment of the conditions of painted surfaces was performed at each location. A complete listing of interior and exterior surfaces assessed at each location is presented in Table 2 of this report. The condition of each component was rated in accordance with the criteria established in Chapter 5 – Table 5.3 Conditions of Paint Film Quality of the HUD Guidelines.

The following table is a reproduction of the HUD evaluation criteria applied on this project.

Total Area of Deteriorated Paint on Each Component			
Type of Building Component	**Intact**	**Fair**	**Poor**
Exterior components with large surfaces areas.	Entire surface is intact.	Less than or equal to 10 square feet.	More than 10 square feet.
Interior components with large surface areas (walls, ceilings, floors, doors).	Entire surface is intact.	Less than or equal to 2 square feet.	More than 2 square feet.
Interior and exterior components with small surface areas (window sills, baseboards, soffits, trim.)	Entire surface is intact.	Less than or equal to 10 percent of the total surface area of the component.	More than 10 percent of the total surface area of the component.

LBP surfaces were classified as potential LBP hazards in accordance with the following criteria specified by the EPA (40 CRF 745.65):

1. Any lead-based paint on a friction surface that is subject to abrasion and where the lead dust levels on the closest horizontal surface exceeds the dust lead standards,
2. Any damaged or otherwise deteriorated surface that is caused by impact from a related building component,
3. Any chewable lead-based painted component that bears evidence of teeth marks, and
4. Any other deteriorated lead-based paint in any residential building or child occupied facility or on the exterior of any residential building or child occupied facility.

4.0 LEAD SAMPLING AND ANALYTICAL PROCEDURES

The RMD LPA-1 XRF Analyzer (LPA-1) is a complete lead paint analysis system, which quickly, accurately, and non-destructively measures the concentration of LBP on surfaces. The LPA-1 relies on the measurement of the K-shell X-rays to determine the amount of lead present in the painted surface. K-shell X-rays can penetrate many layers of paint and allow a measurement of the lead content of paint to be made without being significantly affected by the thickness or number of layers of paint on the surface of the sample.

The LPA-1 has the ability to analyze and compute corrections for the differences in the energy spectrums relating to different substrates. This analysis of the energy spectrum means that the lead paint reading displayed on the instrument already accounts for any substrate effects and correction is not required by the operator. The LPA-1's field of view is limited to a depth of 3/8", deep enough to handle virtually all painted surfaces, but not prone to detect lead objects located behind the surface.

There are two measurement modes of operation in the LPA-1 analyzer namely the "Standard Mode" and the "Quick Mode". In the "Standard" mode, the operator selects a fixed measurement time that remains constant irrespective of the lead signal. In the "Quick" mode, the analyzer automatically adjusts the measurement time to be the least time that is needed to make a definitive measurement with a 95% confidence level (2 sigma). The LPA-1 analyzer will finish a measurement once the 2-sigma confidence level is achieved and the data is statistically meaningful. ATC utilized the LPA-1 in the Quick" mode for the testing performed. This time period for conclusive measurements ranges from 1 to 60 seconds depending on the selected action level for abatement.

Upon arrival at the job site and once every four hours or after the day's inspection work was completed, a "validation test" was performed to assure that the instrument was operating properly. A series of three test measurements using the nominal time which was used during the inspection were taken on the National Institute of Standards and Testing (NIST) Paint Film Standard (SRM No. 2579) as required by the instrument's Performance Characteristic Sheet (PCS). The individual readings and an average of the three readings were recorded and compared to the standards. In all cases, the instrument was functioning within the standard deviation as defined by the manufacturer and the PCS. Validation readings are recorded on

the field sample collection logs in the order in which they were taken at the site. The results of Calibration Checks are included in Table 2 of this report.

The parameters used to interpret XRF results are outlined in the HUD Guidelines and the PCS located in Appendix B. According to the PCS, each XRF result is classified as positive for LBP if the result is greater than or equal to 1.0 mg/cm^2, or negative for LBP if the result is below 1.0 mg/cm^2.

5.0 SURVEY RESULTS

Table 1 presents a detailed list of building components that were identified as potential Lead-Based Paint Hazards. Each surface was observed to be in deteriorated condition (fair or poor) and found by XRF paint analysis to contain lead in concentrations at or above 1.0 mg/cm^2 or 0.5% lead by weight. Table 1 summarizes the material, location and an appropriate abatement method that should be utilized. A complete listing of all XRF testing data is presented in Table 2.

6.0 CONCLUSIONS

ATC performed a lead-based paint inspection at the former Hudepohl Brewery located in Cincinnati, Ohio. LBP was found in concentrations $\geq$ 1.0 mg/cm^2 or 0.5% on surfaces identified in Table 1, Summary of Building Components Coated with Deteriorated Lead-Based Paint. Table 1 includes only surfaces that were classified as LBP Hazards. All LBP, regardless of condition, has the potential to become a LBP hazard if disturbed.

Any planned interior demolition work that disturbs lead paint during the course of this project must be conducted in accordance with all applicable requirements of the OSHA lead construction standard (i.e., 29 CFR 1926.62) and applicable U.S. and Ohio EPA environmental regulations.

The OSHA lead standard has specific training requirements and work practices for demolition activities involving the disturbance of lead paint, and requires that the contractor(s) that disturb lead-containing materials conduct exposure assessments of their employees during disturbance and/or manual demolition of lead containing materials to determine worker exposures to lead.

The applicability of specific sections of the OSHA lead standard and the need to comply with specific requirements depend on the actual levels of exposure that employees experience when performing demolition activities in or on buildings where lead-containing materials are present. Therefore, OSHA requires that the Contractor performing operations covered by this standard conduct exposure assessments to determine if their employees are exposed to lead above the action level (AL, 30 µg/m3) or the permissible exposure limit (PEL, 50 µg/m3). Worker exposures above the AL and PEL trigger specific actions that the Contractor must take to control and limit exposures to lead and to comply with OSHA requirements.
Until lead exposure assessments have been conducted and the results evaluated, the standard requires the Contractor to treat their employees as though they are being exposed to lead in excess of the PEL, and to provide [per 29 CFR 1926.62(d)(2)(v)(A-F)]:

- Respiratory protection,
- Protective work clothing and equipment,
- Change areas and hand washing facilities,

- Biological monitoring, and
- Training

If the exposure assessments indicate that no employee is exposed above the AL, the Contractor may discontinue monitoring. Further exposure testing is not required unless there is a change in processes or controls that may result in additional employees being exposed to lead at or above the AL, or may result in employees already exposed at or above the AL being exposed above the PEL. The Contractor must keep a written record of the determination, including the date, location within the work site, and the name and social security number of each monitored employee.

If the property will be contain residential dwellings, the EPA requires that firms performing renovation, repair, and painting (RRP) projects that disturb lead-based paint be certified by the EPA and that they use certified renovators who are trained by EPA-approved training providers to follow lead-safe work practices.

Contractors must use lead-safe work practices and follow these three simple procedures:

- Contain the work area.
- Minimize dust.
- Clean up thoroughly.

Contractors who perform renovation, repairs, and painting jobs should also:

- Provide a copy of worker EPA or state lead training certificates,
- Identify what lead-safe methods will be used to perform the job.
- Understand the requirements of the new lead renovation laws that apply regarding certification and lead-safe work practices, and
- Maintain records that demonstrate workers have been trained in lead-safe work practices and follow lead-safe work practices on the job.

7.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in the report are based on conditions that were noted during the walk-through inspections and assessments conducted at the former Hudepohl Brewery in Cincinnati, Ohio on June 4 and 7, and July 6 and 7, 2010. The report is designed to aid the City of Cincinnati, Hudepohl Square LLC (the building owner), architect, construction manager, general contractor, and potential lead abatement contractors in locating LBP and LBP hazards. Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as an Abatement Work plan.

The results of this inspection are applicable for the time that the LBP inspection was performed and for the condition of surfaces at the time they were tested. If questions arise regarding lead content in or on surfaces that were not tested by ATC, additional testing services should be procured to test those surfaces for lead. ATC makes no representation or warranty concerning the standards and specifications provided in the *HUD Guidelines* or by Radiation Monitoring Devices, Inc.

This report is intended for the sole use of the City of Cincinnati, Hudepohl Square LLC, and associated parties relative to site redevelopment. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations contained herein is at the risk of said user.

TABLES

Table 1. Summary of Building Components Coated with Deteriorated Lead-Based Paint

Table 2. Summary of XRF Testing Data

TABLE 1

Summary of
Lead-Based Paint Components, Locations, Approximate Quantities and Recommended Abatement Methods

Table 1. Summary of Building Components Coated with Deteriorated Lead-Based Paint
Former Hudepohl Brewery, Cincinnati, Ohio

Location	Testing Combination	Condition	Substrate	Abatement Method	Approximate Quantity
New Brew House					
Interior	Beams	Poor	Metal	Scrape & Stabilize	10 Beams
Old Boiler House					
Interior	Door casing C	Poor	Metal	Remove	1 Door casing
Interior	Stairwell to basement handrails B	Poor	Metal	Remove	100 LF
New Boiler House					
Interior	Stairwell railings C	Poor	Metal	Remove	200 LF
Interior	Ladder B	Poor	Metal	Remove	1 Ladder
Interior	Railings by elevated tank	Poor	Metal	Remove	85 LF
Engine room	Rack	Poor	Metal	Remove	1 Large rack
South basement	Door casing B	Fair	Wood	Remove	1 Door casing
2nd Floor north	Elevator door B	Poor	Metal	Scrape & Stabilize	1 Elevator door
3rd Floor north	Elevator door casing B	Poor	Metal	Scrape & Stabilize	1 Door casing
New Boiler House & Engine House, New Brew House, & Old Boiler House					
Exterior	Window casings A,B	Poor	Metal	Scrape & Stabilize/ Remove	37 Windows
Exterior	Garage door casing A	Poor	Metal	Scrape & Stabilize/ Remove	1 Garage door casing
Exterior	Door & door casing D	Poor	Metal/Wood	Remove	1 Door & door casing
Racking Fermentation House					
1st Floor	Door casing D	Poor	Metal	Remove	1 Door casing
Basement	Door & casing D to stairwell	Poor	Metal	Remove	1 Door & 1 door casing
Basement	Window casing B	Poor	Wood	Remove	1 Window
2nd Floor south	Door & casing D	Poor	Metal	Remove	1 Door & 1 door casing
2nd Floor south	Door casing B	Poor	Metal	Remove	1 Door casing
2nd Floor south	Window sash B	Poor	Metal	Remove	10 Windows
2nd Floor south	Door casing C	Poor	Metal	Remove	1 Door casing
2nd Floor south	Elevator door casing	Poor	Metal	Scrape & Stabilize	1 Door casing
2nd Floor south	Door casing D to stairwell	Poor	Metal	Remove	1 Door casing
Stairwell 2-3	Stair stringers	Poor	Metal	Scrape & Stabilize	All stringers
Stairwell 2-3	Stairwell baseboards	Poor	Metal	Scrape & Stabilize	All stairwell base-boards
Stairwell 2-3	Newel posts	Poor	Metal	Scrape & Stabilize	All Newel posts
Stairwell 2-3	Door & casing D	Poor	Metal	Remove	1 Door & 1 door casing
Stairwell 2-3	All window components B in stairwell	Poor	Wood/Metal	Remove	All stairwell windows
Elevated walkway	All metal walkway parts	Poor	Metal	Remove	Elevated walkway

Table 1. Summary of Building Components Coated with Deteriorated Lead-Based Paint
Former Hudepohl Brewery, Cincinnati, Ohio

Location	Testing Combination	Condition	Substrate	Abatement Method	Approximate Quantity
3rd Floor	Door & door casing D	Poor	Metal	Remove	1 Door & 1 door casing
3rd Floor	Door B	Fair	Wood	Remove	1 Door
3rd Floor	Elevator door B	Poor	Metal	Scrape & Stabilize	1 Door
4th Floor	Elevator door B	Fair	Wood	Scrape & Stabilize	1 Door
4th Floor	Support beam D	Poor	Metal	Scrape & Stabilize	Tan beams
4th Floor	Window casing & sash C	Fair	Wood	Remove	6 Windows
4th Floor	Stairwell D beam	Poor	Metal	Scrape & Stabilize	1 Beam
4th Floor	Door casing C	Poor	Metal	Remove	1 Door casing
Exterior	Column bottom B	Poor	Metal	Scrape & Stabilize/ Remove	1 Column bottom
Exterior	Windows casings on red brick structure B	Poor	Metal	Remove	6 Window casings
Exterior	Doors & door casings B @ loading dock	Poor	Metal	Remove	5 Doors & door casings
Exterior	Freight elevator door & door casing B*	Poor	Metal	Scrape & Stabilize/ Remove	1 Elevator door & Door casing
Exterior	Yellow stair handrail B	Poor	Metal	Remove	Stairwell handrail
Exterior	Window casings B	Poor	Metal	Remove	27 Windows
Exterior	Window sash D	Poor	Metal	Remove	8 Windows
Exterior	Door casing D	Poor	Wood	Remove	1 Door casing
Exterior	Upper trim B*	Poor	Metal	Scrape & Stabilize/ Remove	Upper trim B
Exterior (Courtyard Between Boiler House and Racking Fermentation House)	I-Beam	Poor	Metal	Remove	1 Orange I-beam
Bottle Wash House					
Basement locker room	Tank C	Poor	Metal	Remove	60 SF
Basement locker room	Column C	Poor	Metal	Scrape & Stabilize	60 SF
Basement locker room	Beam C	Poor	Metal	Scrape & Stabilize	400 SF
Basement locker room	Lockers	Poor	Metal	Remove	All lockers
Basement locker room	Door casing B	Poor	Metal	Remove	1 Door casing
Basement restroom	Door casing B	Fair	Wood	Remove	1 Door casing
Basement restroom	Beam B	Poor	Metal	Scrape & Stabilize	40 SF
Locker room @ right side of restroom	Lockers	Poor	Metal	Remove	All lockers

Table 1. Summary of Building Components Coated with Deteriorated Lead-Based Paint
Former Hudepohl Brewery, Cincinnati, Ohio

Location	Testing Combination	Condition	Substrate	Abatement Method	Approximate Quantity
Locker room @ right side of restroom	Door casing A	Fair	Wood	Remove	1 Door casing
Basement tank room	Beams*	Poor	Metal	Scrape & Stabilize	450 SF
Basement tank room	Tanks	Poor	Metal	Remove	6 Tanks
1st Floor south	Door casing A	Poor	Metal	Remove	1 Door casing
1st Floor south	Beams	Poor	Metal	Scrape & Stabilize	1,400 SF
1st Floor south	Elevator door casing B	Poor	Metal	Remove	1 Door casing
1st Floor south	Columns	Poor	Metal	Scrape & Stabilize	110 SF
1st Floor north	Square I-beams	Poor	Metal	Scrape & Stabilize	5 Beams
1st Floor north	Round columns	Poor	Metal	Scrape & Stabilize	4 Columns
1st Floor north	Stair stringer A	Poor	Metal	Remove	18 SF
1st Floor north	Stair treads A	Poor	Metal	Remove	20 SF
2nd Floor south	Vertical I-beams	Poor	Metal	Scrape & Stabilize	19 Beams
2nd Floor south	Vertical round columns	Poor	Metal	Scrape & Stabilize	8 Columns
2nd Floor south	Fire doors C	Poor	Metal	Remove	3 Doors
2nd Floor south	Garage door casing B	Poor	Metal	Remove	1 Garage door
Exterior	Door casing A	Poor	Metal	Remove	1 Door casing
Exterior	Downspout A	Poor	Metal	Remove	1 Downspout
Exterior	Window casing B facade	Poor	Wood	Remove	All facade windows
Exterior	Decorative facade trim below red brick B	Poor	Stone	Scrape & Stabilize/ Remove	Facade trim
Exterior	Facade eave B*	Poor	Metal	Scrape & Stabilize/ Remove	Facade eave
Exterior	Window components B*	Poor	Wood/Metal	Remove	All B-side windows
Exterior	Decorative upper trim D*	Poor	Metal	Scrape & Stabilize	Decorative upper trim D*
Exterior	3rd Floor garage door D*	Poor	Wood	Remove	1 Garage door
Exterior	Decorative roof trim D*	Poor	N/A	Scrape & Stabilize/ Remove	Decorative roof trim
Exterior	Windowsill D	Poor	concrete	Scrape & Stabilize	2 Windowsills

* = "Assumed LBP" – Some of the trim areas of the buildings could not be accessed due to their height. Many of these building components were assumed to be LBP.

TABLE 2

RMD LPA-1 Sequential Reports

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	06/04/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	06/04/10 12:42
Total Readings:	45
Job Started:	06/04/10 12:42
Job Finished:	06/04/10 16:01

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.7	TC
2		CALIBRATION								0.8	TC
3		CALIBRATION								0.8	TC
4	001	new br.hous	A	Window	Lft	Sash	P	Steel	red	-0.5	QM
5	001	new br.hous	B	Door	Ctr	Rgt casing	P	Steel	red	-0.3	QM
6	001	new br.hous	B	Door	Ctr	L Rgt	P	Steel	gray	-0.4	QM
7	001	new br.hous	B	beam/ceil	Ctr		P	Steel	white	-0.3	QM
8	001	new br.hous	D	Stairs	Ctr	Treads	P	Steel	black	-0.3	QM
9	001	new br.hous	C	Stairs	Ctr	Stringers	P	Steel	red	-0.4	QM
10	001	new br.hous	D	Stairs	Ctr	Risers	P	Steel	tan	-0.4	QM
11	001	new br.hous	C	Stairs	Ctr	handrail	P	Steel	red	-0.5	QM
12	001	new br.hous	C	Door	Ctr	garage	P	Steel	red	0.2	QM
13	001	new br.hous	C	Door	Ctr	Lft casing	F	Steel	red	-0.1	QM
14	001	new br.hous	B	Beam	Ctr		P	Steel	white	2.2	QM
15	001	new br.hous	D	break box	Ctr		P	Steel	gray	-0.4	QM
16	001	new br.hous	D	Door	Ctr	Lft casing	P	Steel	red	-0.4	QM
17	001	new br.hous	D	Door	Ctr	U Rgt	P	Steel	red	-0.2	QM
18	002	old boil hs	B	vertbeam	Ctr		P	Steel	gray	-0.6	QM
19	002	old boil hs	A	boiler	Ctr		P	Steel	red	-0.4	QM
20	002	old boil hs	C	Door	Ctr	Lft casing	P	Steel	gray	8.8	QM
21	002	old boil hs	B	Stairs	Ctr	Stringers	P	Steel	gray	-0.2	QM
22	002	old boil hs	D	Door	Ctr	fire	P	Steel	gray	-0.3	QM
23	002	old boil hs	D	Door	Ctr	Rgt casing	P	Steel	gray	-0.2	QM
24	002	old boil hs	A	Door	Ctr	Rgt casing	P	Steel	gray	-0.4	QM
25	002	old boil hs	A	Door	Ctr	Lft casing	P	Steel	gray	-0.2	QM
26	002	old boil hs	D	wall	Ctr		F	Concrete	white	-0.3	QM
27	002	old boil hs	D	Beam	Ctr		P	Steel	gray	-0.5	QM
28	002	old boil hs	D	Door	Ctr	garage	P	Steel	gray	-0.1	QM
29	002	old boil hs	D	Door	Ctr	Rgt casing	P	Steel	gray	0.1	QM
30	002	old boil hs	A	wall	Ctr		F	Concrete	white	-0.4	QM
31	002	old boil hs	B	Stairs	Ctr	handrail	P	Steel	yellow	1.0	QM
32	003	new boil hs	C	Beam	Ctr		P	Steel	gray	-0.3	QM
33	003	new boil hs	C	Beam	Ctr		P	Steel	blue	-0.4	QM
34	003	new boil hs	C	Stairs	Ctr	handrail	P	Steel	yellow	3.8	QM
35	003	new boil hs	D	Stairs	Ctr	Stringers	P	Steel	gray	-0.3	QM
36	003	new boil hs	B	ladder	Ctr	lower	P	Steel	yellow	1.9	QM
37	003	new boil hs	C	tank suppt	Ctr		P	Steel	blue	0.4	QM
38	004	engine rm	D	rack	Ctr		P	Steel	orange	2.8	QM
39	004	engine rm	A	Door	Ctr	L Ctr	P	Steel	gray	-0.4	QM
40	004	engine rm	A	Door	Ctr	Rgt casing	P	Steel	gray	-0.4	QM
41	004	engine rm	A	Window	Ctr	Lft casing	P	Steel	N/A	0.1	QM
42	004	engine rm	C	wall	Ctr		P	Concrete	tan	-0.2	QM
43		CALIBRATION								0.7	TC
44		CALIBRATION								0.8	TC
45		CALIBRATION								0.8	TC

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	06/07/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	06/07/10 08:57
Total Readings:	77
Job Started:	06/07/10 08:57
Job Finished:	06/07/10 14:18

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.8	TC
2		CALIBRATION								0.9	TC
3		CALIBRATION								0.9	TC
4	001	S. stwell	C	Stairs	Lft	Treads	P	Steel	gray	-0.2	QM
5	001	S. stwell	C	Stairs	Lft	Risers	F	Steel	green	-0.4	QM
6	001	S. stwell	B	Stairs	Lft	Stringers	F	Steel	green	-0.5	QM
7	001	S. stwell	B	Stairs	Lft	handrail	F	Steel	green	-0.4	QM
8	001	S. stwell	A	Door	Lft	L Rgt	F	Steel	green	-0.2	QM
9	001	S. stwell	A	Door	Lft	Lft casing	F	Steel	green	-0.4	QM
10	001	S. stwell	A	wall	Ctr		F	Concrete	white	-0.1	QM
11	001	S. stwell	B	wall	Ctr		F	Concrete	white	-0.4	QM
12	001	S. stwell	C	wall	Ctr		F	Concrete	white	-0.3	QM
13	001	S. stwell	D	Window	Ctr	Rgt casing	F	Steel	green	-0.4	Std
14	001	S. stwell	D	Window	Ctr	Rgt casing	F	Steel	green	-0.3	QM
15	002	2nd fl S of	A	wall	Ctr		I	Concrete	white	-0.2	QM
16	002	2nd fl S of	B	wall	Ctr		I	Concrete	white	-0.5	QM
17	002	2nd fl S of	C	wall	Ctr		I	Concrete	white	-0.4	QM
18	002	2nd fl S of	D	wall	Ctr		I	Concrete	white	-0.1	QM
19	002	2nd fl S of	D	Door	Ctr	L Ctr	F	Steel	green	-0.3	QM
20	002	2nd fl S of	D	Door	Ctr	Lft casing	F	Steel	green	-0.1	QM
21	002	2nd fl S of	A	Window	Ctr	Sill	F	Steel	green	-0.4	QM
22	002	2nd fl S of	A	Ceiling	Ctr	bath rm	P	Plaster	white	0.2	QM
23	002	2nd fl S of	C	wall	Ctr	bath rm	I	Concrete	gray	-0.4	QM
24	002	2nd fl S of	D	wall	Ctr	bath rm	I	Concrete	gray	-0.2	QM
25	003	2nd fl tk r	B	Door	Ctr	Lft casing	P	Steel	white	0.2	QM
26	003	2nd fl tk r	A	break box	Ctr		P	Steel	gray	-0.4	QM
27	003	2nd fl tk r	A	Ceiling	Ctr		P	Concrete	white	-0.2	QM
28	003	2nd fl tk r	A	horiz beam	Ctr		P	Steel	white	-0.4	QM
29	003	2nd fl tk r	B	Window	Ctr	Sill	P	Steel	red	-0.3	QM
30	003	2nd fl tk r	B	Window	Ctr	Rgt casing	P	Steel	red	-0.4	QM
31	004	3rd fl offi	A	wall	Ctr		F	Concrete	white	-0.1	QM
32	004	3rd fl offi	B	wall	Ctr		I	Concrete	gray	-0.4	QM
33	004	3rd fl offi	C	wall	Ctr		F	Concrete	gray	-0.4	QM
34	004	3rd fl offi	D	wall	Ctr		F	Concrete	gray	-0.2	QM
35	004	3rd fl offi	D	Ceiling	Ctr	panel	P	Steel	white	-0.3	QM
36	004	3rd fl offi	C	Door	Ctr	L Rgt	F	Steel	gray	-0.3	QM
37	004	3rd fl offi	C	Door	Ctr	Lft casing	F	Steel	gray	-0.4	QM
38	004	3rd fl offi	D	Door	Ctr	Lft casing	F	Steel	gray	-0.2	QM
39	005	3-s open ar	D	Ceiling	Ctr		P	Concrete	white	-0.6	QM
40	006	S basement	B	tank	Ctr		P	Steel	yellow	0.0	QM
41	006	S basement	A	Stairs	Ctr	Stringers	P	Steel	gray	-0.4	QM
42	006	S basement	A	wall	Ctr		F	Concrete	white	-0.2	QM
43	006	S basement	B	wall	Ctr		P	stone	white	-0.1	QM
44	006	S basement	C	wall	Ctr		P	stone	white	-0.1	QM
45	006	S basement	D	wall	Ctr		P	stone	white	0.1	QM
46	006	S basement	D	Ceiling	Ctr		F	stone	white	0.2	QM
47	006	S basement	B	Door	Ctr	Header	F	Wood	gray	-0.6	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
48	006	S basement	B	Door	Ctr	Rgt casing	F	Wood	gray	2.1	QM
49	006	S basement	A	Door	Ctr	U Rgt	P	Steel	gray	-0.3	QM
50	006	S basement	A	Door	Ctr	Lft casing	P	Steel	gray	-0.4	QM
51	006	S basement	B	break box	Ctr		P	Steel	gray	-0.4	QM
52	007	N stwell	B	Stairs	Ctr	Treads	P	Steel	N/A	0.3	QM
53	007	N stwell	B	Stairs	Ctr	Risers	P	Steel	N/A	0.0	QM
54	007	N stwell	C	Stairs	Ctr	Stringers	P	Steel	N/A	0.2	QM
55	007	N stwell	C	Stairs	Ctr	handrail	P	Steel	N/A	-0.2	QM
56	007	N stwell	A	Door	Ctr	L Rgt	P	Steel	gray	-0.4	QM
57	007	N stwell	A	Door	Ctr	Lft casing	P	Steel	gray	-0.2	QM
58	007	N stwell	A	Window	Ctr	Sash	P	Steel	N/A	-0.2	QM
59	007	N stwell	A	Stairs	Ctr	Newel post	P	Steel	N/A	0.0	QM
60	008	2-north	A	vent pipe	Ctr		P	Steel	N/A	-0.1	QM
61	008	2-north	A	Door	Ctr	L Rgt	P	Steel	gray	-0.4	QM
62	008	2-north	A	Door	Ctr	Lft casing	P	Steel	gray	-0.1	QM
63	008	2-north	D	Window	Ctr	Sash	P	Steel	gray	-0.3	QM
64	008	2-north	A	Door	Ctr	L Rgt	P	Steel	N/A	-0.4	QM
65	008	2-north	B	Door	Ctr	elevator	P	Steel	gray	1.0	QM
66	009	2-N.locker	B	locker	Ctr	door	P	Steel	N/A	-0.2	QM
67	009	2-N.locker	A	Window	Ctr	Sash	P	Steel	N/A	0.0	QM
68	010	3- North	A	Window	Ctr	Sash	P	Steel	N/A	-0.4	QM
69	010	3- North	B	Door	Ctr	elevator	P	Steel	gray	-0.1	QM
70	010	3- North	B	Door	Ctr	elev cas	P	Steel	gray	1.0	QM
71	010	3- North	D	Door	Ctr	L Rgt	P	Steel	gray	-0.5	QM
72	010	3- North	D	Door	Ctr	Rgt casing	P	Steel	gray	-0.2	QM
73	010	3- North	C	tank	Ctr		P	Wood	red	-0.1	QM
74	010	3- North	B	Door	Ctr	L Rgt	P	Steel	red	-0.3	QM
75	010	3- North	A	Stairs	Ctr	Stringers	P	Steel	red	-0.4	QM
76	010	3- North	C	1/2 tank	Ctr		P	Steel	red	-0.3	QM
77	010	3- North	C	roof	Ctr	chller base	P	Steel	gray	0.0	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	06/07/10
Report Date:	8/17/2010
Abatement Level:	1.0
Report No.	06/07/10 14:39
Total Readings:	33
Job Started:	06/07/10 14:39
Job Finished:	06/07/10 15:51

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	Rack/ferm-1	A	Wall	U Ctr		P	Plaster	Wht/gry	-0.6	QM
2	001	Rack/ferm-1	B	Wall	U Ctr		P	Plaster	Wht/gry	-0.8	QM
3	001	Rack/ferm-1	D	Wall	U Ctr		P	Plaster	Gray	-0.3	QM
4	001	Rack/ferm-1	A	Wall	U Ctr		P	Plaster	Wht/gry	0.1	QM
5	001	Rack/ferm-1	A	Column	Ctr	L column	P	Concrete	white	-0.1	QM
6	001	Rack/ferm-1	A	Column	Ctr	L column	P	Concrete	red	-0.4	QM
7	001	Rack/ferm-1	A	rack	Ctr		F	Steel	gray	-0.4	QM
8	001	Rack/ferm-1	D	Door	Ctr	L Ctr	P	Steel	gray	-0.1	QM
9	001	Rack/ferm-1	D	Door	Ctr	Lft casing	P	Steel	gray	3.1	QM
10	001	Rack/ferm-1	D	Ceiling			P	Concrete	white	-0.9	QM
11	001	Rack/ferm-1	B	slidg dr	Ctr		P	Steel	gray	-0.5	QM
12	001	Rack/ferm-1	B	slid dr cas	Ctr		P	Steel	gray	-0.5	QM
13	001	Rack/ferm-1	B	Door	Ctr	Lft casing	P	Steel	gray	0.4	QM
14	001	Rack/ferm-1	B	Door	Ctr	Lft casing	P	Steel	gray	-0.1	QM
15	001	Rack/ferm-1	B	Door	Ctr	L Ctr	P	Steel	gray	0.2	QM
16	001	Rack/ferm-1	B	Ceiling			P	Concrete	white	-0.2	QM
17	001	Rack/ferm-1	B	double dr	Ctr		F	Wood	gray	0.6	QM
18	002	Basement	D	Door	Ctr	elevator	P	Steel	N/A	0.0	QM
19	002	Basement	A	wall	Ctr		P	Plaster	white	-0.5	QM
20	002	Basement	B	wall	Ctr		P	Plaster	white	-0.4	QM
21	002	Basement	C	wall	Ctr		P	Plaster	white	-0.2	QM
22	002	Basement	D	wall	Ctr		P	Plaster	white	-0.3	QM
23	002	Basement	D	Window	Ctr	Sash	P	Wood	gray	0.1	QM
24	002	Basement	D	Window	Ctr	Rgt casing	P	Wood	gray	0.1	QM
25	002	Basement	A	column	Ctr		F	Concrete	white	-0.2	QM
26	002	Basement	D	Door	Ctr	L Ctr	P	Steel	gray	1.0	QM
27	002	Basement	D	Door	Ctr	Lft casing	P	Steel	gray	5.0	QM
28	002	Basement	B	Window	Ctr	Rgt casing	P	Wood	gray	1.0	QM
29	002	Basement	B	Door	Ctr	L Ctr	P	Steel	gray	-0.2	QM
30	002	Basement	B	Door	Ctr	Rgt casing	P	Steel	gray	-0.2	QM
31		CALIBRATION								0.7	TC
32		CALIBRATION								0.7	TC
33		CALIBRATION								0.8	TC

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/06/10
Report Date:	8/17/2010
Abatement Level:	1.0
Report No.	07/06/10 13:20
Total Readings:	50
Job Started:	07/06/10 13:20
Job Finished:	07/06/10 14:23

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	rack/ferm2	B	wall	Ctr		P	Plaster	white	-0.4	QM
2	001	rack/ferm2	C	wall	Ctr		P	Plaster	white	-0.2	QM
3	001	rack/ferm2	C	column	Ctr		P	Concrete	white	0.0	QM
4	001	rack/ferm2	D	Door	Ctr	L Rgt	P	Steel	white	2.8	QM
5	001	rack/ferm2	D	Door	Ctr	Lft casing	P	Steel	white	3.8	QM
6	002	rak/ferm2s	C	wall	Ctr		F	Dry wall	white	-0.1	QM
7	002	rak/ferm2s	C	Chair Rail	Ctr		F	Wood	bbrown	-0.1	QM
8	002	rak/ferm2s	C	Baseboard	Ctr		F	Wood	bbrown	-0.1	QM
9	002	rak/ferm2s	B	Door	Ctr	L Ctr	P	Steel	gray	0.3	QM
10	002	rak/ferm2s	B	Door	Ctr	Lft casing	P	Steel	bbrown	1.0	QM
11	002	rak/ferm2s	B	Window	Ctr	Sash	P	Steel	gray	3.1	QM
12	002	rak/ferm2s	C	Door	Ctr	L Rgt	P	Steel	N/A	0.0	QM
13	002	rak/ferm2s	C	Door	Ctr	Lft casing	P	Steel	yellow	1.0	QM
14	002	rak/ferm2s	D	elev	Ctr	dr cas	P	Steel	yellow	1.6	QM
15	002	rak/ferm2s	B	break box	Ctr		P	Steel	N/A	0.0	QM
16	002	rak/ferm2s	D	Door	Ctr	L Rgt	P	Steel	N/A	0.1	QM
17	002	rak/ferm2s	D	Door	Ctr	Lft casing	P	Steel	N/A	1.5	QM
18	003	stwll 2-3	C	Door	Ctr	L Rgt	P	Steel	N/A	0.4	QM
19	003	stwll 2-3	C	Door	Ctr	Lft casing	P	Steel	N/A	0.0	QM
20	003	stwll 2-3	A	Stairs	Ctr	Newel post	P	Steel	white	1.0	QM
21	003	stwll 2-3	A	Stairs	Ctr	handrail	P	Steel	white	0.3	QM
22	003	stwll 2-3	A	Stairs	Ctr	Risers	P	Steel	bbrown	0.3	QM
23	003	stwll 2-3	B	Stairs	Ctr	Baseboard	P	Steel	bbrown	1.0	QM
24	003	stwll 2-3	B	Stairs	Ctr	Stringers	P	Steel	bbrown	1.0	QM
25	003	stwll 2-3	D	Door	Ctr	L Ctr	P	Steel	bbrown	1.0	QM
26	003	stwll 2-3	D	Door	Ctr	Rgt casing	P	Steel	gray	1.8	QM
27	003	stwll 2-3	D	Stairs	Ctr	underside	P	Steel	bbrown	0.6	QM
28	003	stwll 2-3	D	handrail	Ctr		P	Steel	Brown	3.5	QM
29	003	stwll 2-3	D	stair undsde	Ctr		P	Steel	Brown	4.3	QM
30	004	rak/ferm3	B	wall	Ctr		P	cork	white	-0.4	QM
31	004	rak/ferm3	C	wall	Ctr		P	cork	white	-0.4	QM
32	004	rak/ferm3	D	wall	Ctr		P	cork	white	-0.4	QM
33	004	rak/ferm3	C	column	Ctr		F	Concrete	white	-0.1	QM
34	004	rak/ferm3	D	Door	Ctr	Lft casing	P	Steel	N/A	0.0	QM
35	004	rak/ferm3	D	Door	Ctr	Lft casing	P	Steel	gray	5.1	QM
36	004	rak/ferm3	D	Door	Ctr	L Rgt	P	Steel	gray	2.2	QM
37	004	rak/ferm3	B	Door	Ctr	U Rgt	F	Wood	gray	2.1	QM
38	004	rak/ferm3	B	Door	Ctr	elev	P	Steel	yellow	1.0	QM
39	005	rak/ferm4	B	Ceiling	Ctr	low	F	Concrete	white	0.5	QM
40	005	rak/ferm4	B	Door	Ctr	elev	F	Wood	gray	2.7	QM
41	005	rak/ferm4	D	suppt beam	Ctr		P	Steel	tan	4.9	QM
42	005	rak/ferm4	D	suppt beam	Ctr	underside	P	Concrete	white	0.4	QM
43	005	rak/ferm4	A	Ceiling	Ctr		P	cork	white	0.0	QM
44	005	rak/ferm4	D	duct	Ctr		P	Steel	white	0.4	QM
45	005	rak/ferm4	C	Window	Ctr	Sash	F	Wood	white	0.7	QM
46	005	rak/ferm4	C	Window	Ctr	Rgt casing	F	Wood	gray	1.9	QM
47	005	rak/ferm4	C	Window	Ctr	Sash	P	Steel	gray	0.6	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
48	005	rak/ferm4	C	Door	Ctr	L Rgt	P	Steel	white	0.4	QM
49	005	rak/ferm4	C	Door	Ctr	Lft casing	P	Steel	white	1.6	QM
50	005	rak/ferm4	D	Stairs	Ctr	beam	P	Steel	gray	3.6	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/06/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	07/06/10 07:55
Total Readings:	30
Job Started:	07/06/10 07:55
Job Finished:	07/06/10 10:56

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.9	TC
2		CALIBRATION								0.8	TC
3		CALIBRATION								0.9	TC
4	001	bot wash bm	A	wall	Ctr		P	Brick	white	0.0	QM
5	001	bot wash bm	B	wall	Ctr		F	Concrete	white	0.2	QM
6	001	bot wash bm	C	wall	Ctr		P	Brick	white	0.5	QM
7	001	bot wash bm	D	wall	Ctr		F	Concrete	white	-0.3	QM
8	001	bot wash bm	C	tank	Ctr		P	Steel	white	1.9	QM
9	001	bot wash bm	C	column	Ctr		P	Steel	white	1.0	QM
10	001	bot wash bm	C	beam	Ctr		P	Steel	white	8.5	QM
11	001	bot wash bm	B	locker	Ctr		F	Steel	gray	1.3	QM
12	001	bot wash bm	B	Door	Ctr	Lft casing	F	Steel	gray	5.6	QM
13	001	bot wash bm	B	Door	Ctr	U Rgt	F	Wood	gray	0.4	QM
14	001	bot wash bm	B	Door	Ctr	Lft casing	P	Wood	gray	0.1	QM
15	001	bot wash bm	D	Door	Ctr	L Rgt	F	Wood	gray	0.3	QM
16	001	bot wash bm	D	Door	Ctr	Rgt casing	F	Wood	gray	0.4	QM
17	001	bot wash bm	D	Ceiling	Ctr		F	Concrete	white	0.6	QM
18	002	bot wash bm	A	wall	Ctr		P	stone	white	0.4	QM
19	002	bot wash bm	B	Door	Ctr	Header	F	Wood	bbrown	0.4	QM
20	002	bot wash bm	B	Door	Ctr	Lft casing	F	Wood	bbrown	3.3	QM
21	002	bot wash bm	B	beam	Ctr		P	Steel	yellow	1.8	QM
22	002	bot wash bm	B	Ceiling	Ctr		F	Concrete	white	0.3	QM
23	003	bot wash bm	B	locker	Ctr		F	Steel	gray	2.0	QM
24	003	bot wash bm	B	column	Ctr		F	Concrete	beige	0.3	QM
25	003	bot wash bm	A	Door	Ctr	Rgt casing	F	Wood	gray	3.6	QM
26	003	bot wash bm	A	Ceiling	Ctr		F	Concrete	white	0.4	QM
27	004	bot wash bm	B	wall	Ctr		F	Plaster	tan	0.0	QM
28	004	bot wash bm	D	wall	Ctr		P	cork	tan	-0.2	QM
29	004	bot wash bm	C	tank	Ctr		P	Steel	white	5.9	QM
30	004	bot wash bm	C	column	Ctr		P	Steel	yellow	2.0	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/06/10
Report Date: 8/4/2010
Abatement Level: 1.0
Report No. 07/06/10 10:57
Total Readings: 55
Job Started: 07/06/10 10:57
Job Finished: 07/06/10 13:17

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	bot ws hs1s	A	wall	Ctr		P	Brick	gray	0.1	QM
2	001	bot ws hs1s	A	wall	Ctr		P	Plaster	gray	-0.1	QM
3	001	bot ws hs1s	B	wall	Ctr		P	Plaster	gray	0.5	QM
4	001	bot ws hs1s	B	sq. column	Ctr		P	Concrete	white	0.2	QM
5	001	bot ws hs1s	C	wall	Ctr		P	Plaster	gray	0.1	QM
6	001	bot ws hs1s	D	wall	Ctr		P	Plaster	gray	0.0	QM
7	001	bot ws hs1s	A	Door	Ctr	Lft casing	P	Steel	gray	1.0	QM
8	001	bot ws hs1s	A	Door	Ctr	L Rgt	F	Steel	gray	0.4	QM
9	001	bot ws hs1s	A	Ceiling	Ctr		P	Concrete	white	0.3	QM
10	001	bot ws hs1s	A	beam	Ctr		P	Steel	gray	9.9	QM
11	001	bot ws hs1s	B	Door	Ctr	elev cas	P	Steel	gray	2.4	QM
12	001	bot ws hs1s	C	column	Ctr		P	Steel	yellow	4.7	QM
13	001	bot ws hs1s	B	Door	Ctr	garage	F	Steel	red	0.4	QM
14	001	bot ws hs1s	B	Door	Ctr	garg csng	P	Steel	N/A	0.2	QM
15	001	bot ws hs1s	A	Pipe	Ctr		P	Steel	white	0.2	QM
16	001	bot ws hs1s	C	Door	Ctr	L Rgt	P	Steel	gray	0.3	QM
17	001	bot ws hs1s	C	Door	Ctr	Lft casing	P	Steel	gray	0.4	QM
18	001	bot ws hs1s	A	Door	Ctr	lintel	P	Steel	N/A	0.1	QM
19	001	bot ws hs1s	A	rack	Ctr		P	Steel	green	0.1	QM
20	002	bot ws hs1n	A	wall	Ctr		P	Brick	white	0.3	QM
21	002	bot ws hs1n	B	wall	Ctr		P	Brick	white	0.4	QM
22	002	bot ws hs1n	C	wall	Ctr		P	Brick	white	0.4	QM
23	002	bot ws hs1n	D	wall	Ctr		P	Brick	white	0.5	QM
24	002	bot ws hs1n	D	beam	Ctr		P	Steel	bbrown	1.0	QM
25	002	bot ws hs1n	D	column	Ctr		P	Steel	bbrown	9.9	QM
26	002	bot ws hs1n	A	Window	Ctr	Rgt casing	P	Steel	white	0.4	QM
27	002	bot ws hs1n	A	Window	Ctr	lintel	P	Steel	N/A	-0.1	QM
28	002	bot ws hs1n	A	column	Ctr	square	P	Plaster	white	0.0	QM
29	002	bot ws hs1n	B	Stairs	Ctr	handrail	P	Steel	red	0.6	QM
30	002	bot ws hs1n	A	Stairs	Ctr	Stringers	P	Steel	red	4.4	QM
31	002	bot ws hs1n	A	Stairs	Ctr	Treads	P	Steel	red	0.7	QM
32	002	bot ws hs1n	A	Door	Ctr	garg csng	F	Wood	gray	0.1	QM
33	002	bot ws hs1n	A	Ceiling	Ctr		P	Concrete	white	0.2	QM
34	003	bot ws hs2	A	wall	Ctr		P	Brick	white	-0.2	QM
35	003	bot ws hs2	B	wall	Ctr		P	Brick	white	-0.2	QM
36	003	bot ws hs2	C	wall	Ctr		P	Brick	white	0.6	QM
37	003	bot ws hs2	D	wall	Ctr		P	Brick	white	-0.1	QM
38	003	bot ws hs2	D	Door	Ctr	Rgt casing	P	Steel	white	-0.1	QM
39	003	bot ws hs2	D	duct	Ctr		P	Steel	white	0.2	QM
40	003	bot ws hs2	A	break box	Ctr		P	Steel	gray	0.4	QM
41	003	bot ws hs2	D	beam	Ctr		P	Steel	white	1.0	QM
42	003	bot ws hs2	D	column	Ctr		P	Steel	white	9.9	QM
43	003	bot ws hs2	C	Door	Ctr	fire dr	P	Steel	blue	9.9	QM
44	003	bot ws hs2	C	Stairs	Ctr	handrail	P	Steel	green	0.1	QM
45	003	bot ws hs2	B	column	Ctr		P	Brick	white	0.2	QM
46	003	bot ws hs2	B	Door	Ctr	Lft casing	P	Steel	white	1.0	QM
47	003	bot ws hs2	A	Stairs	Ctr	Stringers	P	Steel	white	0.1	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
48	003	bot ws hs2	A	Stairs	Ctr	handrail	P	Steel	white	0.4	QM
49	003	bot ws hs2	A	Stairs	Ctr	Treads	P	Steel	N/A	1.0	QM
50	003	bot ws hs2	A	Baseboard	Ctr		P	Concrete	gray	0.5	QM
51	003	bot ws hs2	A	Stairs	Ctr	underside	P	Steel	white	-0.6	QM
52	003	bot ws hs2	A	Door	Ctr	rollup	P	Steel	gray	0.1	QM
53	003	bot ws hs2	A	Door	Ctr	Lft casing	P	Steel	green	0.4	QM
54	003	bot ws hs2	A	Ceiling	Ctr		P	Wood	white	1.0	QM
55	003	bot ws hs2	A	beam	Ctr		P	Wood	white	0.1	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/07/10
Report Date:	8/18/2010
Abatement Level:	1.0
Report No.	07/07/10 09:45
Total Readings:	16
Job Started:	07/07/10 09:45
Job Finished:	07/07/10 10:24

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								1.1	TC
2		CALIBRATION								1.0	TC
3		CALIBRATION								1.0	TC
4	001	bot wsh ext	A	Door	Lft	Lft casing	P	Steel	N/A	1.0	QM
5	001	bot wsh ext	A	Wall	L Rgt		P	Brick	white	0.0	QM
6	001	bot wsh ext	A	Wall	U Rgt		P	Brick	red	0.2	QM
7	001	bot wsh ext	A	downspout	Rgt		P	Steel	N/A	9.9	QM
8	002	bot wsfacad	B	wall	Rgt		P	Brick	white	0.1	QM
9	002	bot wsfacad	B	Window	Rgt	Rgt casing	P	Wood	gray	9.9	QM
10	002	bot wsfacad	B	Door	Rgt	Lft casing	P	Steel	white	-0.1	QM
11	002	bot wsfacad	B	wall	Rgt		P	Brick	red	0.3	QM
12	002	bot wsfacad	B	wall	Rgt	dec trim	P	stone	gray	1.0	QM
13	003	bot wsh D	D	wall	Lft	dec trim	P	stone	tan	0.3	QM
14	003	bot wsh D	D	Window	Lft	Lft casing	P	Steel	N/A	0.2	QM
15	003	bot wsh D	D	Door	Ctr	Rgt casing	P	Steel	tan	0.5	QM
16	003	bot wsh D	D	Window	Ctr	Sill	P	Concrete	gray	2.9	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/07/10
Report Date:	8/18/2010
Abatement Level:	1.0
Report No.	07/07/10 10:27
Total Readings:	10
Job Started:	07/07/10 10:27
Job Finished:	07/07/10 11:00

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	rak ferm ex	B	column	Lft		P	Concrete	white	0.0	QM
2	001	rak ferm ex	B	column	Lft	bottom	P	Steel	yellow	3.5	QM
3	001	rak ferm ex	B	Window	Lft	Rgt casing	P	Steel	gray	3.2	QM
4	001	rak ferm ex	B	Door	Lft	L Rgt	P	Steel	gray	2.4	QM
5	001	rak ferm ex	B	Door	Lft	Lft casing	P	Steel	gray	3.7	QM
6	001	rak ferm ex	B	Stairs	Lft	handrail	P	Steel	yellow	1.7	QM
7	001	rak ferm ex	B	Stairs	Lft	Treads	P	Steel	yellow	0.4	QM
8	002	rak frm exD	D	Window	Lft	Sash	P	Steel	gray	1.0	QM
9	002	rak frm exD	D	Door	Lft	Header	P	Steel	gray	0.2	QM
10	002	rak frm exD	D	Door	Lft	Rgt casing	P	Wood	gray	2.3	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 07/07/10
Report Date: 8/18/2010
Abatement Level: 1.0
Report No. 07/07/10 11:01
Total Readings: 8
Job Started: 07/07/10 11:01
Job Finished: 07/07/10 11:27

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	load dk rms	A	Ceiling	Lft		P	Concrete	white	0.2	QM
2	002	load dk rms	A	Ceiling	Lft		P	Concrete	white	0.1	QM
3	003	load dk rms	A	wall	Lft		P	Brick	white	-0.2	QM
4	003	load dk rms	B	wall	Lft		P	Brick	white	0.1	QM
5	003	load dk rms	D	wall	Lft		P	Brick	white	-0.2	QM
6	003	load dk rms	D	Ceiling	Lft		P	Brick	white	0.0	QM
7	003	load dk rms	C	Ceiling	Lft		P	Brick	white	0.0	QM
8	003	load dk rms	B	column	Lft		P	Concrete	white	0.1	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/07/10
Report Date:	8/18/2010
Abatement Level:	1.0
Report No.	07/07/10 11:27
Total Readings:	7
Job Started:	07/07/10 11:27
Job Finished:	07/07/10 11:39

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	courtyard	A	tank	Lft		P	Steel	white	-0.2	QM
2	001	courtyard	A	tank	Lft		P	Steel	white	-0.1	QM
3	001	courtyard	A	tank	Lft		P	Steel	white	-0.1	QM
4	001	courtyard	A	beam	Lft		P	Steel	orange	9.4	QM
5		CALIBRATION								1.3	TC
6		CALIBRATION								1.3	TC
7		CALIBRATION								1.0	TC

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/06/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	07/06/10 15:03
Total Readings:	5
Job Started:	07/06/10 15:03
Job Finished:	07/06/10 15:08

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	newbrew hse	A	Wall	L	Lft	F	Concrete	red	0.0	QM
2	001	newbrew hse	A	Door		Lft L Ctr	P	Steel	green	0.0	QM
3	001	newbrew hse	A	Door		Lft Rgt casing	P	Steel	green	0.0	QM
4	001	newbrew hse	A	Window		Lft Sill	F	Concrete	red	0.1	QM
5	001	newbrew hse	A	Window		Lft Rgt casing	P	Steel	green	1.0	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/06/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	07/06/10 15:12
Total Readings:	5
Job Started:	07/06/10 15:12
Job Finished:	07/06/10 15:17

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	old blr hse	A	Door	Lft	Lft casing	P	Steel	green	-0.1	QM
2	001	old blr hse	A	Wall	L Lft		P	Concrete	red	0.0	QM
3	001	old blr hse	A	Door	Lft	Lft casing	P	Steel	white	0.1	QM
4	001	old blr hse	A	Door	Ctr	Lft casing	P	Steel	grn/wht	0.5	QM
5	001	old blr hse	A	downspout	Ctr		P	Steel	red	-0.2	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/06/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	07/06/10 15:18
Total Readings:	4
Job Started:	07/06/10 15:18
Job Finished:	07/06/10 15:25

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1	001	new eng hse	A	Door	Lft	Lft casing	P	Steel	white	4.3	QM
2	001	new eng hse	A	Window	Lft	Sash	P	Steel	white	6.8	QM
3	001	new eng hse	A	visual barri	Ctr		P	Steel	green	0.0	QM
4	001	new eng hse	D	Door	Ctr	L Ctr	P	Steel	white	1.0	QM

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	07/06/10
Report Date:	8/4/2010
Abatement Level:	1.0
Report No.	07/06/10 15:26
Total Readings:	3
Job Started:	07/06/10 15:26
Job Finished:	07/06/10 15:35

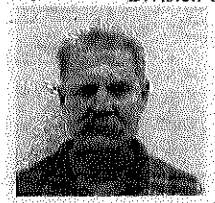
Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.9	TC
2		CALIBRATION								1.0	TC
3		CALIBRATION								0.9	TC

---- End of Readings ----

APPENDIX A

Personnel & Firm License

State of Ohio
Department of Health
Division of Quality Assurance - Lead Program



MICHAEL BRYSON

License No. LA-006191
Discipline: Lead Risk Assessor
Expiration Date: Nov 26, 2011

This license is issued pursuant to Chapter 3742 of the Revised Code and 3701-32 of the Ohio Administrative Code
*Please see back for Verification Information

TamperSafe®

[redacted]

Lead Consortium
5830 Salem Road
Cincinnati, OH 45230
Phone (513) 232-2806
www.leadconsortium.org
Class Location:
415 S. Cooper Avenue
Cincinnati, OH 45215

Ohio Provider Number: 0121
Illinois, Kentucky, Missouri, & Pennsylvania Approved Course
Training course meets requirements as outlined by the State of Indiana under 326 IAC 23-3
EPA Approved for Certification Pursuant to Section 402 of TSCA

CERTIFIES THAT
MICHAEL BRYSON
2491 Berthbrook Drive
Cincinnati, OH 45231
SSN 294-46-8206

has successfully completed
The APPROVED Lead Refresher Training COURSE for RISK ASSESSOR
and has passed the required examination in that discipline

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 & 15 U.S.C. 2615), I certify that this training complies with the applicable requirements of Title IV of the "Toxic Substances Control Act", 40 CFR Part 745, and any other applicable Federal, State or local requirements, as amended.

Course Date: 10/08/2009
Examination Date: 10/08/2009
Certificate No.: CR100809-02

Program Manager/Principal Instructor
Date: 10/08/2009

OHIO DEPARTMENT OF HEALTH
LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the applications of Chapter 3748 of the Ohio Revised Code and all rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. **ATC Associates, Inc.**	3. **31210 31 0000**
	EXPIRATION DATE
2. **11121 Canal Road**	4. **September 1, 2011**
Cincinnati, Ohio 45241	FILE NUMBER - ID NUMBER
	5. **500691-*3350***

6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. **Cobalt-57**	A. **Sealed source**	A. **No single source to exceed 555 MBq (15 mCi) Total possession not to exceed 2.22 GBq (60 mCi)**
B. **Cesium-137**	B. **Sealed source**	B. **No single source to exceed 333 MBq (9 mCi) Total possession not to exceed 11.332 GBq (306 mCi)**
C. **Americium-241**	C. **Sealed source**	C. **No single source to exceed 1.63 GBq (44 mCi) Total possession not to exceed 60.236 GBq (1.628 Ci)**
D. **Cesium-137**	*D.* **Sealed source**	D. **No single source to exceed 370 MBq (10 mCi)**
E. **Americium-241**	*E.* **Sealed source**	E. **No single source to exceed 1.85 GBq (50 mCi)**

9. Authorized Use

A. **(4 gauges) To be used in RMD Model LPA-1 portable gauges for measuring physical properties of materials.**

B., C. **(34 gauges) To be used in Troxler Model 3400 series portable gauge s for measuring physical properties of materials.**

C. **(3 gauges) To be used in a Troxler Model 3218 portable gauges for measuring physical properties of materials.**

D., E. **(1 gauge) To be used in CPN Model MC3 portable gauge for measuring physical properties of materials.**

CONDITIONS

10. Licensed material may only be used at the licensee's facilities located at:

A. **11121 Canal Road, Cincinnati, OH 45241;**

B. **950-V Taylor Station Road, Gahanna, OH 43230;**

C. **10020 Brecksville Road, Brecksville, OH 44141;**

D. **5000 Hempstead Station Road, Dayton, OH 45429; and**

E. **Temporary job-sites in the state of Ohio.**

11. The Radiation Safety Officer for this license is: **E. John Hansen.**

12. **Licensed material shall be used by, or under the supervision of and in the physical presence of individuals who have satisfactorily completed the training program described in letter dated July 11, 2006, have been instructed in the licensee's operating and emergency procedures and who have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.**

13. **All sealed sources that are used or obtained shall have been evaluated or approved under the provisions of rule 3701:1-46-49 of the Administrative Code; or by equivalent NRC or Agreement State regulation.**

14. **Sealed sources shall be tested for leakage and/or contamination in accordance with rule OAC 3701:1-38-24.**

OHIO DEPARTMENT OF HEALTH	Page 2 of 2
LICENSE FOR RADIOACTIVE MATERIALS	License Number: 31210 31 0000
SUPPLEMENTARY SHEET	File Number – ID Number: 500691-*3350*
	Amendment No. *12*

15. The licensee shall conduct a physical inventory every 6 months, or at another interval approved by the Director, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for at least 5 years from the date of each inventory, and shall include: the quantities and kinds of licensed material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.

16. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.

17. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in a secure fixed location to prevent unauthorized use, loss, or theft.

18. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.

19. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the Director, the NRC or an Agreement State to perform such services.

20. The licensee may transport licensed material in accordance with the provisions of Chapter 3701:1-50 of the Administrative Code.

21. Each portable nuclear gauge must be secured with a minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal, whenever portable gauges are not under the control and constant surveillance of the licensee, in accordance with OAC 3701:1-40-16(H).

22. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in OAC 3701:1-40-17 for establishing decommissioning financial assurance.

23. Except as specifically provided otherwise in this license, the license shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures. The Ohio Department of Health's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

    A. Renewal application dated April 3, 2006, letter dated July 11, 2006. Amendment 7 renews license number 31210310000 in its entirety.

    B. Letters dated July 11, 2006 and August 14, 2006. (Amendment 8)

    C. Correspondence dated August 12, 2008. (Amendment 9)

    D. Letter correspondence dated September 25, 2008 (Amendment 10)

    E. E-mail correspondence dated June 9, 23, 24and 25, 2009. (Amendment 11)

    F. *Correspondence dated Sept. 10, 2009 (Amendment #12) removing location of use*

For the Ohio Department of Health

DATE: 9/15/09 BY: _____

Robert E. Owen, Chief
Bureau of Radiation Protection
on behalf of the Director of Health

APPENDIX B

RMD LPA-1 Performance Characteristic Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: **October 25, 2006** **EDITION NO.: 5**

MANUFACTURER AND MODEL:

Make: ***Radiation Monitoring Devices***
Model: ***LPA-1***
Source: ^{57}Co
Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above ***for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

XRF CALIBRATION CHECK LIMITS:

0.7 to 1.3 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

For XRF results below 4.0 mg/cm^2, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.
None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings
Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

THRESHOLDS:

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.02 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> For each substrate type (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*) / 6 - 1.02 mg/cm^2
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than 4.0 mg/cm^2 lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than 4.0 mg/cm^2 lead. Of these, one 30-second standard mode reading was less than 1.0 mg/cm^2 and none of the quick mode readings were less than 1.0 mg/cm^2. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model.

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm^2)	PRECISION* (mg/cm^2)
0.0 mg/cm^2	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm^2	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm^2	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm^2	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

*Precision at 1 standard deviation.

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

DOCUMENTATION:

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, www.hud.gov/offices/lead.

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.*

APPENDIX J

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 800-264-6482

4. Waste Tracking Number

5. Generator's Name and Mailing Address: Hudepohl Brewery, 801 W. 6th St. Cincinnati, Ohio

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Pettit Environmental

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Pettit Environmental 513-842-4759, 6380 Centre Park Dr. West Chester, Oh. 45069

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Water	002	DM	110	G	
2.	Non-Hazardous Soil Cuttings	002	DM	660	G	
3.						
4.						

13. Special Handling Instructions and Additional Information

Pettit Environmental
Job: 310055

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: William A Norris | Signature | Month 05 | Day 12 | Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARK MIDDLETON | Signature | Month 05 | Day 12 | Year 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			[illegible]	

5. Generator's Name and Mailing Address: Former Hospital Primary, 201 W. 6th St., Cincinnati, Ohio

Generator's Site Address (if different than mailing address):

Generator's Phone:

6. Transporter 1 Company Name: EMS

U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Ohio Oil, 209 Monroe Rd, Columbus, Ohio

U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZARDOUS PURGE GROUNDWATER	001	DM	055	GAL
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: [illegible] | Month: 12 | Day: 23 | Year: 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Derek Graf | Signature: [illegible] | Month: 12 | Day: 23 | Year: 10

Transporter 2 Printed/Typed Name: | Signature: | Month: | Day: | Year:

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Soil Cuttings	003	DM	2400	lbs	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR — INT'L — TRANSPORTER — NATED FACILITY

APPENDIX K

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10G0485	08/09/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Holly Green
Affiant Signature

Sworn to before me this 17th day of August, 2010.

Vanessa L. Heslep
Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Monday, August 9, 2010

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl Brewery Redevelopment Work Order: 10G0485

Belmont Labs received 23 sample(s) on 7/9/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green

Holly Green
Project Manager

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10G0485-01A	MW-1 (8-10)	7/7/2010 8:40:00AM	7/9/2010
10G0485-01B	MW-1 (8-10)	7/7/2010 8:40:00AM	7/9/2010
10G0485-02A	MW-1 (10-12)	7/7/2010 8:41:00AM	7/9/2010
10G0485-02B	MW-1 (10-12)	7/7/2010 8:41:00AM	7/9/2010
10G0485-03A	MW-1 (16-18)	7/7/2010 8:51:00AM	7/9/2010
10G0485-03B	MW-1 (16-18)	7/7/2010 8:51:00AM	7/9/2010
10G0485-03C	MW-1 (16-18)	7/7/2010 8:51:00AM	7/9/2010
10G0485-04A	MW-3 (10-12)	7/6/2010 12:13:00PM	7/9/2010
10G0485-04B	MW-3 (10-12)	7/6/2010 12:13:00PM	7/9/2010
10G0485-05A	MW-3 (12-14)	7/6/2010 12:16:00PM	7/9/2010
10G0485-06A	MW-3 (28-30)	7/6/2010 12:51:00PM	7/9/2010
10G0485-06B	MW-3 (28-30)	7/6/2010 12:51:00PM	7/9/2010
10G0485-07A	MW-3 (30-32)	7/6/2010 12:59:00PM	7/9/2010
10G0485-07B	MW-3 (30-32)	7/6/2010 12:59:00PM	7/9/2010
10G0485-08A	MW-4 (4-6)	7/6/2010 4:00:00PM	7/9/2010
10G0485-08B	MW-4 (4-6)	7/6/2010 4:00:00PM	7/9/2010
10G0485-08C	MW-4 (4-6)	7/6/2010 4:00:00PM	7/9/2010
10G0485-09A	MW-4 (8-10)	7/6/2010 4:06:00PM	7/9/2010
10G0485-09B	MW-4 (8-10)	7/6/2010 4:06:00PM	7/9/2010
10G0485-10A	MW-4 (12-14)	7/6/2010 4:13:00PM	7/9/2010
10G0485-10B	MW-4 (12-14)	7/6/2010 4:13:00PM	7/9/2010
10G0485-11A	B-5 (6-8)	7/6/2010 2:30:00PM	7/9/2010
10G0485-11B	B-5 (6-8)	7/6/2010 2:30:00PM	7/9/2010
10G0485-12A	B-5 (20-21)	7/6/2010 2:58:00PM	7/9/2010
10G0485-13A	B-5 (24-25)	7/6/2010 3:10:00PM	7/9/2010
10G0485-13B	B-5 (24-25)	7/6/2010 3:10:00PM	7/9/2010
10G0485-14A	B-6 (8-10)	7/7/2010 7:58:00AM	7/9/2010
10G0485-14B	B-6 (8-10)	7/7/2010 7:58:00AM	7/9/2010
10G0485-14C	B-6 (8-10)	7/7/2010 7:58:00AM	7/9/2010
10G0485-15A	B-6 (16-18)	7/7/2010 8:14:00AM	7/9/2010
10G0485-15B	B-6 (16-18)	7/7/2010 8:14:00AM	7/9/2010
10G0485-15C	B-6 (16-18)	7/7/2010 8:14:00AM	7/9/2010
10G0485-16A	D-1	7/7/2010 12:00:00AM	7/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

10G0485-17A	D-2	7/6/2010 12:00:00AM	7/9/2010
10G0485-18A	D-3	7/6/2010 12:00:00AM	7/9/2010
10G0485-19A	D-4	7/7/2010 12:00:00AM	7/9/2010
10G0485-20A	D-5	7/7/2010 12:00:00AM	7/9/2010
10G0485-21A	TB-1	7/6/2010 12:00:00AM	7/9/2010
10G0485-22A	EB-1	7/6/2010 4:35:00PM	7/9/2010
10G0485-22B	EB-1	7/6/2010 4:35:00PM	7/9/2010
10G0485-22C	EB-1	7/6/2010 4:35:00PM	7/9/2010
10G0485-23A	FB-1	7/7/2010 4:10:00PM	7/9/2010
10G0485-23B	FB-1	7/7/2010 4:10:00PM	7/9/2010
10G0485-23C	FB-1	7/7/2010 4:10:00PM	7/9/2010
10G0485-23D	FB-1	7/7/2010 4:10:00PM	7/9/2010
10G0485-23E	FB-1	7/7/2010 4:10:00PM	7/9/2010

A brief and minimal temperature exceedence occurred. It is our professional opinion that this slight exceedence had no effect on the analytical values and all data is valid.

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-01 **Collection Date:** 7/7/2010 8:40:00AM
Client Sample ID: MW-1 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	BDL	11.8		mg/kg dry	1	1029210	7/19/2010 7:13:00PM
C20 to C34	BDL	588		mg/kg dry	1	1029210	7/19/2010 7:13:00PM
Surrogate: o-Terphenyl	*56.4 %*			*48-115*		*1029210*	7/19/2010 7:13:00PM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.93		mg/kg dry	0.9984	1030021	7/17/2010 12:25:00AM
Surrogate: a,a,a-Trifluorotoluene	*104 %*			*60-155*		*1030021*	7/17/2010 12:25:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,1,1-Trichloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,1,2-Trichloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,1-Dichloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,1-Dichloroethene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
-Dichloropropene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
.,2-Dibromoethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,2-Dichloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,2-Dichloropropane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
1,3-Dichloropropane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
2,2-Dichloropropane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
2-Butanone	BDL	0.0202		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
2-Chlorotoluene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
2-Hexanone	BDL	0.0202		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
4-Chlorotoluene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
4-Methyl-2-pentanone	BDL	0.0202		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Acetone	BDL	0.0505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Acetonitrile	BDL	0.0404		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Acrolein	BDL	0.0202		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Acrylonitrile	BDL	0.0202		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Allyl chloride	BDL	0.0101		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Benzene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Bromobenzene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Bromochloromethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Bromodichloromethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Bromoform	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Bromomethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Carbon Disulfide	BDL	0.0202		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Carbon Tetrachloride	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Chlorobenzene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Chloroethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Chloroform	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
nloromethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
cis-1,2-Dichloroethene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-01 **Collection Date:** 7/7/2010 8:40:00AM
Client Sample ID: MW-1 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
cis-1,3-Dichloropropene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Dibromochloromethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Dibromomethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Dichlorodifluoromethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Ethylbenzene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Iodomethane	BDL	0.0101		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Methylene Chloride	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Methyl tert-Butyl Ether	BDL	0.0101		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
m,p-Xylene	BDL	0.0101		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
n-Hexane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
o-Xylene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Styrene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Tetrachloroethene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Toluene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
trans-1,2-Dichloroethene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
trans-1,3-Dichloropropene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Trichloroethene	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Trichlorofluoromethane	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Vinyl Chloride	BDL	0.00505		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Vinyl acetate	BDL	0.0101		mg/kg dry	0.85	1030104	7/17/2010 11:17:00AM
Surrogate: 4-Bromofluorobenzene		*80.3 %*		*41-140*		*1030104*	7/17/2010 11:17:00AM
Surrogate: Dibromofluoromethane		*85.7 %*		*33-129*		*1030104*	7/17/2010 11:17:00AM
Surrogate: Toluene-d8		*85.4 %*		*44-130*		*1030104*	7/17/2010 11:17:00AM
Surrogate: 1,2-Dichloroethane-d4		*81.8 %*		*31-123*		*1030104*	7/17/2010 11:17:00AM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**15.8**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Acenaphthene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Acenaphthylene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Anthracene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Benz(a)anthracene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Benzo(a)pyrene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Benzo(b)fluoranthene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Benzo(g,h,i)perylene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Benzo(k)fluoranthene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Chrysene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Dibenz(a,h)anthracene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Fluoranthene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Fluorene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Naphthalene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-01 **Collection Date:** 7/7/2010 8:40:00AM
Client Sample ID: MW-1 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Phenanthrene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Pyrene	BDL	0.118		mg/kg dry	1	1030120	7/29/2010 4:46:00PM
Surrogate: Nitrobenzene-d5	*62.5 %*			*51-126*		*1030120*	7/29/2010 4:46:00PM
Surrogate: 2-Fluorobiphenyl	*96.3 %*			*56-121*		*1030120*	7/29/2010 4:46:00PM
Surrogate: Terphenyl-d14	*37.2 %*		*S-04*	*40-140*		*1030120*	7/29/2010 4:46:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-02 **Collection Date:** 7/7/2010 8:41:00AM
Client Sample ID: MW-1 (10-12) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.12		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**13.0**		1.12		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**73.0**		1.12		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.580**		0.112		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**12.7**		1.12		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**21.8**		1.12		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.61		mg/kg dry	1	1030260	7/23/2010 4:21:08AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.117		mg/kg dry	1	1030269	7/23/2010 11:23:00AM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Aroclor 1221	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Aroclor 1232	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Aroclor 1242	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Aroclor 1248	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Aroclor 1254	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Aroclor 1260	BDL		0.0237		mg/kg dry	1	1030005	7/21/2010 5:02:00AM
Surrogate: Decachlorobiphenyl		*133 %*			*40-159*		*1030005*	7/21/2010 5:02:00AM
Surrogate: Tetrachloro-m-xylene		*80.0 %*			*47-125*		*1030005*	7/21/2010 5:02:00AM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**17.4**				% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-03 **Collection Date:** 7/7/2010 8:51:00AM
Client Sample ID: MW-1 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	BDL	11.5		mg/kg dry	1	1029210	7/19/2010 7:41:00PM
C20 to C34	BDL	574		mg/kg dry	1	1029210	7/19/2010 7:41:00PM
Surrogate: o-Terphenyl	*52.1 %*			*48-115*		*1029210*	7/19/2010 7:41:00PM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.78		mg/kg dry	0.99	1030021	7/17/2010 2:38:00AM
Surrogate: a,a,a-Trifluorotoluene	*103 %*			*60-155*		*1030021*	7/17/2010 2:38:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.06		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**8.89**	1.06		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
:ium	**63.7**	1.06		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.471**	0.106		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**11.5**	1.06		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**10.9**	1.06		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.30		mg/kg dry	1	1030260	7/23/2010 4:26:18AM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.113		mg/kg dry	1	1030269	7/23/2010 11:25:00AM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
Aroclor 1221	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
Aroclor 1232	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
Aroclor 1242	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
Aroclor 1248	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
Aroclor 1254	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
Aroclor 1260	BDL	0.0233		mg/kg dry	1	1030005	7/21/2010 5:27:00AM
·rogate: Decachlorobiphenyl	*141 %*			*40-159*		*1030005*	7/21/2010 5:27:00AM
Surrogate: Tetrachloro-m-xylene	*84.0 %*			*47-125*		*1030005*	7/21/2010 5:27:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-03 **Collection Date:** 7/7/2010 8:51:00AM
Client Sample ID: MW-1 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,1,1-Trichloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,1,2-Trichloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,1-Dichloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,1-Dichloroethene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,1-Dichloropropene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,2-Dibromoethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,2-Dichloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,2-Dichloropropane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
1,3-Dichloropropane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
2,2-Dichloropropane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
2-Butanone	BDL	0.0395		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
2-Chlorotoluene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
2-Hexanone	BDL	0.0395		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
hlorotoluene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
-Methyl-2-pentanone	BDL	0.0395		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Acetone	BDL	0.0986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Acetonitrile	BDL	0.0789		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Acrolein	BDL	0.0395		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Acrylonitrile	BDL	0.0395		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Allyl chloride	BDL	0.0197		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Benzene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Bromobenzene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Bromochloromethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Bromodichloromethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Bromoform	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Bromomethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Carbon Disulfide	BDL	0.0395		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Carbon Tetrachloride	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Chlorobenzene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Chloroethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Chloroform	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Chloromethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
cis-1,2-Dichloroethene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
cis-1,3-Dichloropropene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Dibromochloromethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Dibromomethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Dichlorodifluoromethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Ethylbenzene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Iodomethane	BDL	0.0197		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Methylene Chloride	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
thyl tert-Butyl Ether	BDL	0.0197		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
m,p-Xylene	BDL	0.0197		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-03 **Collection Date:** 7/7/2010 8:51:00AM
Client Sample ID: MW-1 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
o-Xylene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Styrene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Tetrachloroethene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Toluene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
trans-1,2-Dichloroethene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
trans-1,3-Dichloropropene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Trichloroethene	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Trichlorofluoromethane	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Vinyl Chloride	BDL	0.00986		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Vinyl acetate	BDL	0.0197		mg/kg dry	1.69	1030107	7/18/2010 5:13:00PM
Surrogate: 4-Bromofluorobenzene		*81.0 %*		*41-140*		*1030107*	7/18/2010 5:13:00PM
Surrogate: Dibromofluoromethane		*87.0 %*		*33-129*		*1030107*	7/18/2010 5:13:00PM
Surrogate: Toluene-d8		*86.7 %*		*44-130*		*1030107*	7/18/2010 5:13:00PM
Surrogate: 1,2-Dichloroethane-d4		*85.9 %*		*31-123*		*1030107*	7/18/2010 5:13:00PM
MOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**14.3**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Acenaphthene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Acenaphthylene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Anthracene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Benz(a)anthracene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Benzo(a)pyrene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Benzo(b)fluoranthene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Benzo(g,h,i)perylene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Benzo(k)fluoranthene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Chrysene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Dibenz(a,h)anthracene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Fluoranthene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Fluorene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Naphthalene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Phenanthrene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Pyrene	BDL	0.116		mg/kg dry	1	1030120	7/29/2010 6:03:00PM
Surrogate: Nitrobenzene-d5		*65.1 %*		*51-126*		*1030120*	7/29/2010 6:03:00PM
Surrogate: 2-Fluorobiphenyl		*102 %*		*56-121*		*1030120*	7/29/2010 6:03:00PM
Surrogate: Terphenyl-d14		*37.6 %*	*S-04*	*40-140*		*1030120*	7/29/2010 6:03:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-04 **Collection Date:** 7/6/2010 12:13:00PM
Client Sample ID: MW-3 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	12.0		mg/kg dry	1	1030222	7/22/2010 3:46:00AM
C20 to C34	BDL	598		mg/kg dry	1	1030222	7/22/2010 3:46:00AM
Surrogate: o-Terphenyl	*31.4 %*			*28-107*		*1030222*	7/22/2010 3:46:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	6.05		mg/kg dry	0.99	1030021	7/17/2010 3:11:00AM
Surrogate: a,a,a-Trifluorotoluene	*103 %*			*60-155*		*1030021*	7/17/2010 3:11:00AM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
Aroclor 1221	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
Aroclor 1232	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
Aroclor 1242	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
Aroclor 1248	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
Aroclor 1254	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
oclor 1260	BDL	0.0242		mg/kg dry	1	1030005	7/20/2010 11:15:00PM
Surrogate: Decachlorobiphenyl	*140 %*			*40-159*		*1030005*	7/20/2010 11:15:00PM
Surrogate: Tetrachloro-m-xylene	*121 %*			*47-125*		*1030005*	7/20/2010 11:15:00PM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,1,1-Trichloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,1,2,2-Tetrachloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,1,2-Trichloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,1-Dichloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,1-Dichloroethene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,1-Dichloropropene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,2-Dibromoethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,2-Dichloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,2-Dichloropropane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
1,3-Dichloropropane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
2,2-Dichloropropane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
2-Butanone	BDL	0.0432		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
2-Chlorotoluene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
2-Hexanone	BDL	0.0432		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
4-Chlorotoluene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
4-Methyl-2-pentanone	BDL	0.0432		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Acetone	BDL	0.108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Acetonitrile	BDL	0.0865		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Acrolein	BDL	0.0432		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Acrylonitrile	BDL	0.0432		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
yl chloride	BDL	0.0216		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Benzene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-04 **Collection Date:** 7/6/2010 12:13:00PM
Client Sample ID: MW-3 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Bromobenzene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Bromochloromethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Bromodichloromethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Bromoform	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Bromomethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Carbon Disulfide	BDL	0.0432		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Carbon Tetrachloride	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Chlorobenzene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Chloroethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Chloroform	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Chloromethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
cis-1,2-Dichloroethene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
cis-1,3-Dichloropropene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Dibromochloromethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Dibromomethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Dichlorodifluoromethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Ethylbenzene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
domethane	BDL	0.0216		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
ethylene Chloride	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Methyl tert-Butyl Ether	BDL	0.0216		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
m,p-Xylene	BDL	0.0216		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
n-Hexane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
o-Xylene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Styrene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Tetrachloroethene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Toluene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
trans-1,2-Dichloroethene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
trans-1,3-Dichloropropene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Trichloroethene	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Trichlorofluoromethane	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Vinyl Chloride	BDL	0.0108		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Vinyl acetate	BDL	0.0216		mg/kg dry	1.77	1030107	7/18/2010 1:58:00PM
Surrogate: 4-Bromofluorobenzene		*82.5 %*		*41-140*		*1030107*	7/18/2010 1:58:00PM
Surrogate: Dibromofluoromethane		*83.9 %*		*33-129*		*1030107*	7/18/2010 1:58:00PM
Surrogate: Toluene-d8		*84.6 %*		*44-130*		*1030107*	7/18/2010 1:58:00PM
Surrogate: 1,2-Dichloroethane-d4		*82.0 %*		*31-123*		*1030107*	7/18/2010 1:58:00PM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**18.1**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
cenaphthene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
cenaphthylene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-04 **Collection Date:** 7/6/2010 12:13:00PM
Client Sample ID: MW-3 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Anthracene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Benz(a)anthracene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Benzo(a)pyrene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Benzo(b)fluoranthene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Benzo(g,h,i)perylene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Benzo(k)fluoranthene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Chrysene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Dibenz(a,h)anthracene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Fluoranthene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Fluorene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Naphthalene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Phenanthrene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Pyrene	BDL	0.119		mg/kg dry	1	1029211	7/21/2010 3:53:00AM
Surrogate: Nitrobenzene-d5	*91.2 %*			*51-126*		*1029211*	7/21/2010 3:53:00AM
Surrogate: 2-Fluorobiphenyl	*82.8 %*			*56-121*		*1029211*	7/21/2010 3:53:00AM
rrogate: Terphenyl-d14	*84.5 %*			*40-140*		*1029211*	7/21/2010 3:53:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-05 **Collection Date:** 7/6/2010 12:16:00PM
Client Sample ID: MW-3 (12-14) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.03		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**10.2**		1.03		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**55.3**		1.03		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.600**		0.103		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**14.6**		1.03		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
ad	**16.7**		1.03		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.16		mg/kg dry	1	1030260	7/23/2010 4:31:56AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.123		mg/kg dry	1	1030270	7/23/2010 12:15:00PM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**14.6**				% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-06 **Collection Date:** 7/6/2010 12:51:00PM
Client Sample ID: MW-3 (28-30) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	10.4		mg/kg dry	1	1030222	7/22/2010 4:14:00AM
C20 to C34	BDL	522		mg/kg dry	1	1030222	7/22/2010 4:14:00AM
Surrogate: o-Terphenyl	*29.3 %*			*28-107*		*1030222*	7/22/2010 4:14:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.18		mg/kg dry	0.98	1030022	7/17/2010 6:30:00AM
Surrogate: a,a,a-Trifluorotoluene	*104 %*			*60-155*		*1030022*	7/17/2010 6:30:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,1,1-Trichloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,1,2-Trichloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,1-Dichloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,1-Dichloroethene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
'-Dichloropropene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
,2-Dibromoethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,2-Dichloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,2-Dichloropropane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
1,3-Dichloropropane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
2,2-Dichloropropane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
2-Butanone	BDL	0.0212		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
2-Chlorotoluene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
2-Hexanone	BDL	0.0212		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
4-Chlorotoluene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
4-Methyl-2-pentanone	BDL	0.0212		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Acetone	BDL	0.0529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Acetonitrile	BDL	0.0423		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Acrolein	BDL	0.0212		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Acrylonitrile	BDL	0.0212		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Allyl chloride	BDL	0.0106		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Benzene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Bromobenzene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Bromochloromethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Bromodichloromethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Bromoform	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Bromomethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Carbon Disulfide	BDL	0.0212		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Carbon Tetrachloride	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Chlorobenzene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Chloroethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Chloroform	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
loromethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
cis-1,2-Dichloroethene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-06 **Collection Date:** 7/6/2010 12:51:00PM
Client Sample ID: MW-3 (28-30) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
cis-1,3-Dichloropropene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Dibromochloromethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Dibromomethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Dichlorodifluoromethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Ethylbenzene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Iodomethane	BDL	0.0106		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Methylene Chloride	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Methyl tert-Butyl Ether	BDL	0.0106		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
m,p-Xylene	BDL	0.0106		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
n-Hexane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
o-Xylene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Styrene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Tetrachloroethene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Toluene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
trans-1,2-Dichloroethene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
trans-1,3-Dichloropropene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Trichloroethene	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Trichlorofluoromethane	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
yl Chloride	BDL	0.00529		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Vinyl acetate	BDL	0.0106		mg/kg dry	1	1030039	7/17/2010 2:36:00AM
Surrogate: 4-Bromofluorobenzene		*80.3 %*		*41-140*		*1030039*	7/17/2010 2:36:00AM
Surrogate: Dibromofluoromethane		*82.7 %*		*33-129*		*1030039*	7/17/2010 2:36:00AM
Surrogate: Toluene-d8		*84.0 %*		*44-130*		*1030039*	7/17/2010 2:36:00AM
Surrogate: 1,2-Dichloroethane-d4		*81.6 %*		*31-123*		*1030039*	7/17/2010 2:36:00AM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	5.47			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Acenaphthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Acenaphthylene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Benz(a)anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Benzo(a)pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Benzo(b)fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Benzo(g,h,i)perylene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Benzo(k)fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Chrysene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Dibenz(a,h)anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Fluorene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
deno(1,2,3-cd)pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
phthalene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-06 **Collection Date:** 7/6/2010 12:51:00PM
Client Sample ID: MW-3 (28-30) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Phenanthrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 3:10:00AM
Surrogate: Nitrobenzene-d5	*80.7 %*			*51-126*		*1029211*	7/21/2010 3:10:00AM
Surrogate: 2-Fluorobiphenyl	*101 %*			*56-121*		*1029211*	7/21/2010 3:10:00AM
Surrogate: Terphenyl-d14	*87.9 %*			*40-140*		*1029211*	7/21/2010 3:10:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-07 **Collection Date:** 7/6/2010 12:59:00PM
Client Sample ID: MW-3 (30-32) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		0.774		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**4.51**		0.774		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**26.6**		0.774		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.275**		0.0774		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**3.51**		0.774		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**4.68**		0.774		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		3.87		mg/kg dry	1	1030260	7/23/2010 4:37:54AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.111		mg/kg dry	1	1030270	7/23/2010 12:17:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Aroclor 1221	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Aroclor 1232	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Aroclor 1242	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Aroclor 1248	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Aroclor 1254	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Aroclor 1260	BDL		0.0205		mg/kg dry	1	1030005	7/21/2010 12:29:00AM
Surrogate: Decachlorobiphenyl			*115 %*		*40-159*		*1030005*	7/21/2010 12:29:00AM
Surrogate: Tetrachloro-m-xylene			*107 %*		*47-125*		*1030005*	7/21/2010 12:29:00AM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**3.16**				% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-08 **Collection Date:** 7/6/2010 4:00:00PM
Client Sample ID: MW-4 (4-6) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		11.2		mg/kg dry	1	1030222	7/22/2010 4:41:00AM
C20 to C34	BDL		562		mg/kg dry	1	1030222	7/22/2010 4:41:00AM
Surrogate: o-Terphenyl		*44.2 %*			*28-107*		*1030222*	7/22/2010 4:41:00AM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.52		mg/kg dry	0.97	1030022	7/17/2010 8:08:00AM
Surrogate: a,a,a-Trifluorotoluene		*104 %*			*60-155*		*1030022*	7/17/2010 8:08:00AM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		0.918		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**7.22**		0.918		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**16.1**		0.918		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.341**		0.0918		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**4.87**		0.918		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**6.83**		0.918		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		4.59		mg/kg dry	1	1030260	7/23/2010 4:43:28AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.116		mg/kg dry	1	1030269	7/23/2010 11:27:00AM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
Aroclor 1221	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
Aroclor 1232	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
Aroclor 1242	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
Aroclor 1248	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
Aroclor 1254	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
Aroclor 1260	BDL		0.0225		mg/kg dry	1	1030005	7/21/2010 12:54:00AM
ogate: Decachlorobiphenyl		*125 %*			*40-159*		*1030005*	7/21/2010 12:54:00AM
Surrogate: Tetrachloro-m-xylene		*120 %*			*47-125*		*1030005*	7/21/2010 12:54:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-08 **Collection Date:** 7/6/2010 4:00:00PM
Client Sample ID: MW-4 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,1,1-Trichloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,1,2,2-Tetrachloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,1,2-Trichloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,1-Dichloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,1-Dichloroethene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,1-Dichloropropene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,2-Dibromoethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,2-Dichloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,2-Dichloropropane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
1,3-Dichloropropane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
2,2-Dichloropropane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
2-Butanone	BDL	0.0401		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
2-Chlorotoluene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
2-Hexanone	BDL	0.0401		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
4-Chlorotoluene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
4-Methyl-2-pentanone	BDL	0.0401		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Acetone	BDL	0.100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Acetonitrile	BDL	0.0801		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Acrolein	BDL	0.0401		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Acrylonitrile	BDL	0.0401		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Allyl chloride	BDL	0.0200		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Benzene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Bromobenzene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Bromochloromethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Bromodichloromethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Bromoform	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Bromomethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Carbon Disulfide	BDL	0.0401		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Carbon Tetrachloride	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Chlorobenzene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Chloroethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Chloroform	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Chloromethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
cis-1,2-Dichloroethene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
cis-1,3-Dichloropropene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Dibromochloromethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Dibromomethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Dichlorodifluoromethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Ethylbenzene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Iodomethane	BDL	0.0200		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Methylene Chloride	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Methyl tert-Butyl Ether	BDL	0.0200		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
m,p-Xylene	BDL	0.0200		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM

Belmont Labs **Date:** 8/9/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-08 **Collection Date:** 7/6/2010 4:00:00PM
Client Sample ID: MW-4 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
o-Xylene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Styrene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Tetrachloroethene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Toluene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
trans-1,2-Dichloroethene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
trans-1,3-Dichloropropene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Trichloroethene	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Trichlorofluoromethane	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Vinyl Chloride	BDL	0.0100		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Vinyl acetate	BDL	0.0200		mg/kg dry	1.76	1030116	7/19/2010 2:43:00PM
Surrogate: 4-Bromofluorobenzene	*74.8 %*			*41-140*		*1030116*	7/19/2010 2:43:00PM
Surrogate: Dibromofluoromethane	*72.8 %*			*33-129*		*1030116*	7/19/2010 2:43:00PM
Surrogate: Toluene-d8	*80.3 %*			*44-130*		*1030116*	7/19/2010 2:43:00PM
Surrogate: 1,2-Dichloroethane-d4	*77.0 %*			*31-123*		*1030116*	7/19/2010 2:43:00PM
MOIST	**D 2216**					**Analyst: AD**	
cent Moisture	**12.1**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270	**SW 8270C**					**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Acenaphthene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Acenaphthylene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Anthracene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Benz(a)anthracene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Benzo(a)pyrene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Benzo(b)fluoranthene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Benzo(g,h,i)perylene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Benzo(k)fluoranthene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Chrysene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Dibenz(a,h)anthracene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Fluoranthene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Fluorene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Naphthalene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Phenanthrene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Pyrene	BDL	0.112		mg/kg dry	1	1029211	7/21/2010 4:35:00AM
Surrogate: Nitrobenzene-d5	*89.2 %*			*51-126*		*1029211*	7/21/2010 4:35:00AM
Surrogate: 2-Fluorobiphenyl	*87.2 %*			*56-121*		*1029211*	7/21/2010 4:35:00AM
Surrogate: Terphenyl-d14	*79.5 %*			*40-140*		*1029211*	7/21/2010 4:35:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-09 **Collection Date:** 7/6/2010 4:06:00PM
Client Sample ID: MW-4 (8-10) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.23		mg/kg dry	0.97	1030022	7/17/2010 8:41:00AM
Surrogate: a,a,a-Trifluorotoluene		*103 %*			*60-155*		*1030022*	7/17/2010 8:41:00AM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		0.817		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**6.61**		0.817		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**17.2**		0.817		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.292**		0.0817		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
P_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**7.61**		0.817		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**6.07**		0.817		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		4.08		mg/kg dry	1	1030260	7/23/2010 4:48:43AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.101		mg/kg dry	1	1030270	7/23/2010 12:19:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Aroclor 1221	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Aroclor 1232	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Aroclor 1242	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Aroclor 1248	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Aroclor 1254	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Aroclor 1260	BDL		0.0214		mg/kg dry	1	1030005	7/21/2010 1:19:00AM
Surrogate: Decachlorobiphenyl		*130 %*			*40-159*		*1030005*	7/21/2010 1:19:00AM
Surrogate: Tetrachloro-m-xylene		*115 %*			*47-125*		*1030005*	7/21/2010 1:19:00AM
VOC 8260		**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL		0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
,1-Trichloroethane	BDL		0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
,1,2,2-Tetrachloroethane	BDL		0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-09 **Collection Date:** 7/6/2010 4:06:00PM
Client Sample ID: MW-4 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
1,1,2-Trichloroethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,1-Dichloroethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,1-Dichloroethene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,1-Dichloropropene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,2-Dibromoethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,2-Dichloroethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,2-Dichloropropane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
1,3-Dichloropropane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
2,2-Dichloropropane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
2-Butanone	BDL	0.0188		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
2-Chlorotoluene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
2-Hexanone	BDL	0.0188		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
4-Chlorotoluene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
4-Methyl-2-pentanone	BDL	0.0188		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Acetone	BDL	0.0469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Acetonitrile	BDL	0.0375		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Acrolein	BDL	0.0188		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
rylonitrile	BDL	0.0188		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
yl chloride	BDL	0.00938		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Benzene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Bromobenzene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Bromochloromethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Bromodichloromethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Bromoform	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Bromomethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Carbon Disulfide	BDL	0.0188		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Carbon Tetrachloride	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Chlorobenzene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Chloroethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Chloroform	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Chloromethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
cis-1,2-Dichloroethene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
cis-1,3-Dichloropropene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Dibromochloromethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Dibromomethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Dichlorodifluoromethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Ethylbenzene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Iodomethane	BDL	0.00938		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Methylene Chloride	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Methyl tert-Butyl Ether	BDL	0.00938		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
m,p-Xylene	BDL	0.00938		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
n-Hexane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
o-Xylene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Styrene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
achloroethene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
uene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-09 **Collection Date:** 7/6/2010 4:06:00PM
Client Sample ID: MW-4 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
trans-1,2-Dichloroethene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
trans-1,3-Dichloropropene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Trichloroethene	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Trichlorofluoromethane	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Vinyl Chloride	BDL	0.00469		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Vinyl acetate	BDL	0.00938		mg/kg dry	0.87	1030104	7/17/2010 9:07:00AM
Surrogate: 4-Bromofluorobenzene	*81.0 %*			*41-140*		*1030104*	7/17/2010 9:07:00AM
Surrogate: Dibromofluoromethane	*84.9 %*			*33-129*		*1030104*	7/17/2010 9:07:00AM
Surrogate: Toluene-d8	*84.3 %*			*44-130*		*1030104*	7/17/2010 9:07:00AM
Surrogate: 1,2-Dichloroethane-d4	*84.3 %*			*31-123*		*1030104*	7/17/2010 9:07:00AM

PMOIST **D 2216** **Analyst: AD**

Percent Moisture	**7.24**			% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-10 **Collection Date:** 7/6/2010 4:13:00PM
Client Sample ID: MW-4 (12-14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	BDL	10.7		mg/kg dry	1	1029210	7/19/2010 9:32:00PM
C20 to C34	BDL	533		mg/kg dry	1	1029210	7/19/2010 9:32:00PM
Surrogate: o-Terphenyl	*54.1 %*			*48-115*		*1029210*	7/19/2010 9:32:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**7.38**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270	**SW 8270C**					**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Acenaphthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Acenaphthylene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Benz(a)anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Benzo(a)pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Benzo(b)fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Benzo(g,h,i)perylene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Benzo(k)fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Chrysene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Dibenz(a,h)anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Fluorene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Naphthalene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Phenanthrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 11:41:00AM
Surrogate: Nitrobenzene-d5	*91.0 %*			*51-126*		*1029211*	7/21/2010 11:41:00AM
Surrogate: 2-Fluorobiphenyl	*93.1 %*			*56-121*		*1029211*	7/21/2010 11:41:00AM
Surrogate: Terphenyl-d14	*89.3 %*			*40-140*		*1029211*	7/21/2010 11:41:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-11 **Collection Date:** 7/6/2010 2:30:00PM
Client Sample ID: B-5 (6-8) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	10.5		mg/kg dry	1	1030222	7/22/2010 5:09:00AM
C20 to C34	BDL	526		mg/kg dry	1	1030222	7/22/2010 5:09:00AM
Surrogate: o-Terphenyl	*37.2 %*			*28-107*		*1030222*	7/22/2010 5:09:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.25		mg/kg dry	0.99	1030022	7/17/2010 9:14:00AM
Surrogate: a,a,a-Trifluorotoluene	*102 %*			*60-155*		*1030022*	7/17/2010 9:14:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	0.853		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**4.88**	0.853		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
rium	**19.7**	0.853		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.244**	0.0853		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**5.64**	0.853		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**4.71**	0.853		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	4.26		mg/kg dry	1	1030260	7/23/2010 4:54:10AM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.106		mg/kg dry	1	1030270	7/23/2010 12:21:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
Aroclor 1221	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
Aroclor 1232	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
Aroclor 1242	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
Aroclor 1248	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
Aroclor 1254	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
Aroclor 1260	BDL	0.0211		mg/kg dry	1	1030005	7/21/2010 1:43:00AM
rogate: Decachlorobiphenyl	*120 %*			*40-159*		*1030005*	7/21/2010 1:43:00AM
.rrogate: Tetrachloro-m-xylene	*123 %*			*47-125*		*1030005*	7/21/2010 1:43:00AM

Belmont Labs **Date:** 8/9/2010

JENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-11 **Collection Date:** 7/6/2010 2:30:00PM
Client Sample ID: B-5 (6-8) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,1,1-Trichloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,1,2-Trichloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,1-Dichloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,1-Dichloroethene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,1-Dichloropropene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,2-Dibromoethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,2-Dichloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,2-Dichloropropane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
1,3-Dichloropropane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
2,2-Dichloropropane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
2-Butanone	BDL	0.0356		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
2-Chlorotoluene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
2-Hexanone	BDL	0.0356		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Chlorotoluene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Methyl-2-pentanone	BDL	0.0356		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Acetone	BDL	0.0891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Acetonitrile	BDL	0.0713		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Acrolein	BDL	0.0356		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Acrylonitrile	BDL	0.0356		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Allyl chloride	BDL	0.0178		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Benzene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Bromobenzene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Bromochloromethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Bromodichloromethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Bromoform	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Bromomethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Carbon Disulfide	BDL	0.0356		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Carbon Tetrachloride	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Chlorobenzene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Chloroethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Chloroform	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Chloromethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
cis-1,2-Dichloroethene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
cis-1,3-Dichloropropene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Dibromochloromethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Dibromomethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Dichlorodifluoromethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Ethylbenzene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Iodomethane	BDL	0.0178		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Methylene Chloride	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Methyl tert-Butyl Ether	BDL	0.0178		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
m,p-Xylene	BDL	0.0178		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-11 **Collection Date:** 7/6/2010 2:30:00PM
Client Sample ID: B-5 (6-8) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
o-Xylene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Styrene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Tetrachloroethene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Toluene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
trans-1,2-Dichloroethene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
trans-1,3-Dichloropropene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Trichloroethene	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Trichlorofluoromethane	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Vinyl Chloride	BDL	0.00891		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Vinyl acetate	BDL	0.0178		mg/kg dry	1.68	1030107	7/18/2010 2:30:00PM
Surrogate: 4-Bromofluorobenzene	*82.1 %*			*41-140*		*1030107*	7/18/2010 2:30:00PM
Surrogate: Dibromofluoromethane	*84.1 %*			*33-129*		*1030107*	7/18/2010 2:30:00PM
Surrogate: Toluene-d8	*85.2 %*			*44-130*		*1030107*	7/18/2010 2:30:00PM
Surrogate: 1,2-Dichloroethane-d4	*82.1 %*			*31-123*		*1030107*	7/18/2010 2:30:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	5.72			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270	**SW 8270C**					**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Acenaphthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Acenaphthylene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Benz(a)anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Benzo(a)pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Benzo(b)fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Benzo(g,h,i)perylene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Benzo(k)fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Chrysene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Dibenz(a,h)anthracene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Fluoranthene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Fluorene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Naphthalene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Phenanthrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Pyrene	BDL	0.105		mg/kg dry	1	1029211	7/21/2010 2:28:00AM
Surrogate: Nitrobenzene-d5	*90.6 %*			*51-126*		*1029211*	7/21/2010 2:28:00AM
Surrogate: 2-Fluorobiphenyl	*80.7 %*			*56-121*		*1029211*	7/21/2010 2:28:00AM
Surrogate: Terphenyl-d14	*92.8 %*			*40-140*		*1029211*	7/21/2010 2:28:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-12 **Collection Date:** 7/6/2010 2:58:00PM
Client Sample ID: B-5 (20-21) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.20		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**23.2**		1.20		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**1310**		1.20		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**2.40**		0.120		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**23.4**		1.20		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
ad	**5800**		1.20		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.98		mg/kg dry	1	1030260	7/23/2010 5:00:15AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	**4.44**		0.696	D	mg/kg dry	5	1030270	7/23/2010 1:37:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Aroclor 1221	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Aroclor 1232	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Aroclor 1242	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Aroclor 1248	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Aroclor 1254	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Aroclor 1260	BDL		0.0277		mg/kg dry	1	1030005	7/21/2010 2:08:00AM
Surrogate: Decachlorobiphenyl			*%*	*S-04*	*40-159*		*1030005*	7/21/2010 2:08:00AM
Surrogate: Tetrachloro-m-xylene			*109 %*		*47-125*		*1030005*	7/21/2010 2:08:00AM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**29.3**				% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-13 **Collection Date:** 7/6/2010 3:10:00PM
Client Sample ID: B-5 (24-25) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	11.0		mg/kg dry	1	1030222	7/22/2010 5:36:00AM
C20 to C34	BDL	548		mg/kg dry	1	1030222	7/22/2010 5:36:00AM
Surrogate: o-Terphenyl	*42.2 %*			*28-107*		*1030222*	7/22/2010 5:36:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.44		mg/kg dry	0.99	1030021	7/17/2010 2:05:00AM
Surrogate: a,a,a-Trifluorotoluene	*101 %*			*60-155*		*1030021*	7/17/2010 2:05:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,1,1-Trichloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,1,2-Trichloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,1-Dichloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,1-Dichloroethene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1-Dichloropropene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
2-Dibromoethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,2-Dichloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,2-Dichloropropane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
1,3-Dichloropropane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
2,2-Dichloropropane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
2-Butanone	BDL	0.0361		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
2-Chlorotoluene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
2-Hexanone	BDL	0.0361		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
4-Chlorotoluene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
4-Methyl-2-pentanone	BDL	0.0361		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Acetone	BDL	0.0902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Acetonitrile	BDL	0.0722		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Acrolein	BDL	0.0361		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Acrylonitrile	BDL	0.0361		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Allyl chloride	BDL	0.0180		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Benzene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Bromobenzene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Bromochloromethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Bromodichloromethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Bromoform	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Bromomethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Carbon Disulfide	BDL	0.0361		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Carbon Tetrachloride	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Chlorobenzene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Chloroethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Chloroform	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
loromethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
is-1,2-Dichloroethene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM

Lab ID: 10G0485-13 **Collection Date:** 7/6/2010 3:10:00PM
Client Sample ID: B-5 (24-25) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
cis-1,3-Dichloropropene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Dibromochloromethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Dibromomethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Dichlorodifluoromethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Ethylbenzene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Iodomethane	BDL	0.0180		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Methylene Chloride	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Methyl tert-Butyl Ether	BDL	0.0180		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
m,p-Xylene	BDL	0.0180		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
n-Hexane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
o-Xylene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Styrene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Tetrachloroethene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Toluene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
trans-1,2-Dichloroethene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
trans-1,3-Dichloropropene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Trichloroethene	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
ichlorofluoromethane	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
.yl Chloride	BDL	0.00902		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Vinyl acetate	BDL	0.0180		mg/kg dry	1.64	1030107	7/18/2010 3:03:00PM
Surrogate: 4-Bromofluorobenzene		*82.6 %*		*41-140*		*1030107*	7/18/2010 3:03:00PM
Surrogate: Dibromofluoromethane		*84.2 %*		*33-129*		*1030107*	7/18/2010 3:03:00PM
Surrogate: Toluene-d8		*84.9 %*		*44-130*		*1030107*	7/18/2010 3:03:00PM
Surrogate: 1,2-Dichloroethane-d4		*81.1 %*		*31-123*		*1030107*	7/18/2010 3:03:00PM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**9.08**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Acenaphthene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Acenaphthylene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Anthracene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Benz(a)anthracene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Benzo(a)pyrene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Benzo(b)fluoranthene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Benzo(g,h,i)perylene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Benzo(k)fluoranthene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Chrysene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Dibenz(a,h)anthracene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Fluoranthene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Fluorene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
;no(1,2,3-cd)pyrene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
.aphthalene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-13 **Collection Date:** 7/6/2010 3:10:00PM
Client Sample ID: B-5 (24-25) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Phenanthrene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Pyrene	BDL	0.110		mg/kg dry	1	1029211	8/2/2010 9:14:00PM
Surrogate: Nitrobenzene-d5	*86.5 %*			*51-126*		*1029211*	8/2/2010 9:14:00PM
Surrogate: 2-Fluorobiphenyl	*89.6 %*			*56-121*		*1029211*	8/2/2010 9:14:00PM
Surrogate: Terphenyl-d14	*38.5 %*		*S-04*	*40-140*		*1029211*	8/2/2010 9:14:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-14 **Collection Date:** 7/7/2010 7:58:00AM
Client Sample ID: B-6 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	BDL	11.5		mg/kg dry	1	1029210	7/19/2010 10:56:00PM
C20 to C34	BDL	575		mg/kg dry	1	1029210	7/19/2010 10:56:00PM
Surrogate: o-Terphenyl	*51.7 %*			*48-115*		*1029210*	7/19/2010 10:56:00PM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.78		mg/kg dry	0.99	1030022	7/17/2010 9:47:00AM
Surrogate: a,a,a-Trifluorotoluene	*104 %*			*60-155*		*1030022*	7/17/2010 9:47:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.12		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**11.0**	1.12		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
rium	**64.3**	1.12		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.614**	0.112		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**13.7**	1.12		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**19.9**	1.12		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.60		mg/kg dry	1	1030260	7/23/2010 5:05:38AM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.119		mg/kg dry	1	1030269	7/23/2010 11:29:00AM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
Aroclor 1221	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
Aroclor 1232	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
Aroclor 1242	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
Aroclor 1248	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
Aroclor 1254	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
Aroclor 1260	BDL	0.0231		mg/kg dry	1	1030005	7/21/2010 4:13:00AM
rogate: Decachlorobiphenyl	*135 %*			*40-159*		*1030005*	7/21/2010 4:13:00AM
Surrogate: Tetrachloro-m-xylene	*80.0 %*			*47-125*		*1030005*	7/21/2010 4:13:00AM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-14 **Collection Date:** 7/7/2010 7:58:00AM
Client Sample ID: B-6 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,1,1-Trichloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,1,2,2-Tetrachloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,1,2-Trichloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,1-Dichloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,1-Dichloroethene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,1-Dichloropropene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,2-Dibromoethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,2-Dichloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,2-Dichloropropane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
1,3-Dichloropropane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
2,2-Dichloropropane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
2-Butanone	BDL	0.0423		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
2-Chlorotoluene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
2-Hexanone	BDL	0.0423		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
4-Chlorotoluene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
4-Methyl-2-pentanone	BDL	0.0423		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Acetone	BDL	0.106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Acetonitrile	BDL	0.0846		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Acrolein	BDL	0.0423		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Acrylonitrile	BDL	0.0423		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Allyl chloride	BDL	0.0211		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Benzene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Bromobenzene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Bromochloromethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Bromodichloromethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Bromoform	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Bromomethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Carbon Disulfide	BDL	0.0423		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Carbon Tetrachloride	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Chlorobenzene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Chloroethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Chloroform	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Chloromethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
cis-1,2-Dichloroethene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
cis-1,3-Dichloropropene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Dibromochloromethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Dibromomethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Dichlorodifluoromethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Ethylbenzene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Iodomethane	BDL	0.0211		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Methylene Chloride	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Methyl tert-Butyl Ether	BDL	0.0211		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
m,p-Xylene	BDL	0.0211		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM

Belmont Labs **Date:** 8/9/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-14 **Collection Date:** 7/7/2010 7:58:00AM
Client Sample ID: B-6 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
o-Xylene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Styrene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Tetrachloroethene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Toluene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
trans-1,2-Dichloroethene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
trans-1,3-Dichloropropene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Trichloroethene	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Trichlorofluoromethane	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Vinyl Chloride	BDL	0.0106		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Vinyl acetate	BDL	0.0211		mg/kg dry	1.81	1030107	7/18/2010 4:08:00PM
Surrogate: 4-Bromofluorobenzene		*81.8 %*		*41-140*		*1030107*	7/18/2010 4:08:00PM
Surrogate: Dibromofluoromethane		*86.5 %*		*33-129*		*1030107*	7/18/2010 4:08:00PM
Surrogate: Toluene-d8		*84.3 %*		*44-130*		*1030107*	7/18/2010 4:08:00PM
Surrogate: 1,2-Dichloroethane-d4		*84.6 %*		*31-123*		*1030107*	7/18/2010 4:08:00PM
MOIST		**D 2216**				**Analyst: AD**	
cent Moisture	**14.4**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Acenaphthene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Acenaphthylene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Anthracene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Benz(a)anthracene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Benzo(a)pyrene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Benzo(b)fluoranthene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Benzo(g,h,i)perylene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Benzo(k)fluoranthene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Chrysene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Dibenz(a,h)anthracene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Fluoranthene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Fluorene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Naphthalene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Phenanthrene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Pyrene	BDL	0.115		mg/kg dry	1	1030120	7/29/2010 5:44:00PM
Surrogate: Nitrobenzene-d5		*67.4 %*		*51-126*		*1030120*	7/29/2010 5:44:00PM
Surrogate: 2-Fluorobiphenyl		*104 %*		*56-121*		*1030120*	7/29/2010 5:44:00PM
Surrogate: Terphenyl-d14		*39.5 %*	*S-04*	*40-140*		*1030120*	7/29/2010 5:44:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-15 **Collection Date:** 7/7/2010 8:14:00AM
Client Sample ID: B-6 (16-18) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		10.5		mg/kg dry	1	1030222	7/22/2010 6:04:00AM
C20 to C34	BDL		523		mg/kg dry	1	1030222	7/22/2010 6:04:00AM
Surrogate: o-Terphenyl		*37.1 %*			*28-107*		*1030222*	7/22/2010 6:04:00AM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.31		mg/kg dry	0.998	1030022	7/17/2010 10:20:00AM
Surrogate: a,a,a-Trifluorotoluene		*104 %*			*60-155*		*1030022*	7/17/2010 10:20:00AM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		0.822		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**4.53**		0.822		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**16.4**		0.822		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.321**		0.0822		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**7.07**		0.822		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**3.99**		0.822		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		4.11		mg/kg dry	1	1030260	7/23/2010 5:10:43AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.114		mg/kg dry	1	1030269	7/23/2010 11:31:00AM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
Aroclor 1221	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
Aroclor 1232	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
Aroclor 1242	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
Aroclor 1248	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
Aroclor 1254	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
Aroclor 1260	BDL		0.0211		mg/kg dry	1	1030005	7/21/2010 4:38:00AM
rogate: Decachlorobiphenyl		*150 %*			*40-159*		*1030005*	7/21/2010 4:38:00AM
urrogate: Tetrachloro-m-xylene		*84.0 %*			*47-125*		*1030005*	7/21/2010 4:38:00AM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-15 **Collection Date:** 7/7/2010 8:14:00AM
Client Sample ID: B-6 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,1,1-Trichloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,1,2-Trichloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,1-Dichloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,1-Dichloroethene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,1-Dichloropropene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,2-Dibromoethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,2-Dichloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,2-Dichloropropane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
1,3-Dichloropropane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
2,2-Dichloropropane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
2-Butanone	BDL	0.0187		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
2-Chlorotoluene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
2-Hexanone	BDL	0.0187		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
' Chlorotoluene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Aethyl-2-pentanone	BDL	0.0187		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Acetone	BDL	0.0468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Acetonitrile	BDL	0.0374		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Acrolein	BDL	0.0187		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Acrylonitrile	BDL	0.0187		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Allyl chloride	BDL	0.00936		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Benzene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Bromobenzene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Bromochloromethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Bromodichloromethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Bromoform	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Bromomethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Carbon Disulfide	BDL	0.0187		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Carbon Tetrachloride	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Chlorobenzene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Chloroethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Chloroform	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Chloromethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
cis-1,2-Dichloroethene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
cis-1,3-Dichloropropene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Dibromochloromethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Dibromomethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Dichlorodifluoromethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Ethylbenzene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Iodomethane	BDL	0.00936		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Methylene Chloride	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
thyl tert-Butyl Ether	BDL	0.00936		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
,p-Xylene	BDL	0.00936		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-15 **Collection Date:** 7/7/2010 8:14:00AM
Client Sample ID: B-6 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
o-Xylene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Styrene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Tetrachloroethene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Toluene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
trans-1,2-Dichloroethene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
trans-1,3-Dichloropropene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Trichloroethene	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Trichlorofluoromethane	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Vinyl Chloride	BDL	0.00468		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Vinyl acetate	BDL	0.00936		mg/kg dry	0.88	1030104	7/17/2010 10:44:00AM
Surrogate: 4-Bromofluorobenzene		*78.9 %*		*41-140*		*1030104*	7/17/2010 10:44:00AM
Surrogate: Dibromofluoromethane		*84.9 %*		*33-129*		*1030104*	7/17/2010 10:44:00AM
Surrogate: Toluene-d8		*83.7 %*		*44-130*		*1030104*	7/17/2010 10:44:00AM
Surrogate: 1,2-Dichloroethane-d4		*80.8 %*		*31-123*		*1030104*	7/17/2010 10:44:00AM
PMOIST		**D 2216**				**Analyst: AD**	
rcent Moisture	**5.96**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Acenaphthene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Acenaphthylene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Anthracene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Benz(a)anthracene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Benzo(a)pyrene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Benzo(b)fluoranthene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Benzo(g,h,i)perylene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Benzo(k)fluoranthene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Chrysene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Dibenz(a,h)anthracene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Fluoranthene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Fluorene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Naphthalene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Phenanthrene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Pyrene	BDL	0.106		mg/kg dry	1	1030120	7/29/2010 7:31:00AM
Surrogate: Nitrobenzene-d5		*93.8 %*		*51-126*		*1030120*	7/29/2010 7:31:00AM
Surrogate: 2-Fluorobiphenyl		*98.3 %*		*56-121*		*1030120*	7/29/2010 7:31:00AM
Surrogate: Terphenyl-d14		*83.9 %*		*40-140*		*1030120*	7/29/2010 7:31:00AM

Belmont Labs **Date:** 8/9/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-16 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: D-1 **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.05		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**14.3**		1.05		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**412**		1.05		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**3.48**		0.105		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**24.6**		1.05		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
ıd	**2120**		1.05		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.27		mg/kg dry	1	1030260	7/23/2010 10:27:49AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	**0.823**		0.110		mg/kg dry	1	1030270	7/23/2010 12:25:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Aroclor 1221	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Aroclor 1232	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Aroclor 1242	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Aroclor 1248	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Aroclor 1254	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Aroclor 1260	BDL		0.0246		mg/kg dry	1	1030005	7/21/2010 3:23:00AM
Surrogate: Decachlorobiphenyl			*132 %*		*40-159*		*1030005*	7/21/2010 3:23:00AM
Surrogate: Tetrachloro-m-xylene			*104 %*		*47-125*		*1030005*	7/21/2010 3:23:00AM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**19.6**				% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-17 **Collection Date:** 7/6/2010 12:00:00AM
Client Sample ID: D-2 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.36		mg/kg dry	0.99	1030022	7/17/2010 10:53:00AM
Surrogate: a,a,a-Trifluorotoluene	*105 %*			*60-155*		*1030022*	7/17/2010 10:53:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,1,1-Trichloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,1,2,2-Tetrachloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,1,2-Trichloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,1-Dichloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,1-Dichloroethene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,1-Dichloropropene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,2-Dibromoethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,2-Dichloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,2-Dichloropropane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
1,3-Dichloropropane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
2,2-Dichloropropane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
2-Butanone	BDL	0.0420		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
2-Chlorotoluene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
2-Hexanone	BDL	0.0420		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
4-Chlorotoluene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
4-Methyl-2-pentanone	BDL	0.0420		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Acetone	BDL	0.105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Acetonitrile	BDL	0.0840		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Acrolein	BDL	0.0420		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Acrylonitrile	BDL	0.0420		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Allyl chloride	BDL	0.0210		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Benzene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Bromobenzene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Bromochloromethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Bromodichloromethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Bromoform	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Bromomethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Carbon Disulfide	BDL	0.0420		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Carbon Tetrachloride	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Chlorobenzene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Chloroethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Chloroform	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Chloromethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
cis-1,2-Dichloroethene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
cis-1,3-Dichloropropene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Dibromochloromethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Dibromomethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Dichlorodifluoromethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Ethylbenzene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-17 **Collection Date:** 7/6/2010 12:00:00AM
Client Sample ID: D-2 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Iodomethane	BDL	0.0210		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Methylene Chloride	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Methyl tert-Butyl Ether	BDL	0.0210		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
m,p-Xylene	BDL	0.0210		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
n-Hexane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
o-Xylene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Styrene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Tetrachloroethene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Toluene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
trans-1,2-Dichloroethene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
trans-1,3-Dichloropropene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Trichloroethene	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Trichlorofluoromethane	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Vinyl Chloride	BDL	0.0105		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Vinyl acetate	BDL	0.0210		mg/kg dry	1.94	1030107	7/18/2010 1:25:00PM
Surrogate: 4-Bromofluorobenzene	*81.7 %*			*41-140*		*1030107*	7/18/2010 1:25:00PM
Surrogate: Dibromofluoromethane	*83.8 %*			*33-129*		*1030107*	7/18/2010 1:25:00PM
rogate: Toluene-d8	*84.1 %*			*44-130*		*1030107*	7/18/2010 1:25:00PM
Surrogate: 1,2-Dichloroethane-d4	*82.4 %*			*31-123*		*1030107*	7/18/2010 1:25:00PM

PMOIST **D 2216** **Analyst: AD**

Percent Moisture	**7.62**			% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-18 **Collection Date:** 7/6/2010 12:00:00AM
Client Sample ID: D-3 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	11.5		mg/kg dry	1	1030222	7/22/2010 6:31:00AM
C20 to C34	BDL	574		mg/kg dry	1	1030222	7/22/2010 6:31:00AM
Surrogate: o-Terphenyl	*35.3 %*			*28-107*		*1030222*	7/22/2010 6:31:00AM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**13.7**			% by Weight	1	1030309	7/21/2010 5:00:00PM
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Acenaphthene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Acenaphthylene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Anthracene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Benz(a)anthracene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Benzo(a)pyrene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Benzo(b)fluoranthene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
nzo(g,h,i)perylene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Benzo(k)fluoranthene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Chrysene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Dibenz(a,h)anthracene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Fluoranthene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Fluorene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Naphthalene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Phenanthrene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Pyrene	BDL	0.114		mg/kg dry	1	1029211	7/29/2010 5:05:00PM
Surrogate: Nitrobenzene-d5	*72.0 %*			*51-126*		*1029211*	7/29/2010 5:05:00PM
Surrogate: 2-Fluorobiphenyl	*108 %*			*56-121*		*1029211*	7/29/2010 5:05:00PM
Surrogate: Terphenyl-d14	*40.0 %*		*S-04*	*40-140*		*1029211*	7/29/2010 5:05:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-19 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: D-4 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.95		mg/kg dry	0.98	1030022	7/17/2010 11:26:00AM
Surrogate: a,a,a-Trifluorotoluene	*104 %*			*60-155*		*1030022*	7/17/2010 11:26:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,1,1-Trichloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,1,2,2-Tetrachloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,1,2-Trichloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,1-Dichloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,1-Dichloroethene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,1-Dichloropropene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,2-Dibromoethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,2-Dichloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,2-Dichloropropane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
1,3-Dichloropropane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
2,2-Dichloropropane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
2-Butanone	BDL	0.0403		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
2-Chlorotoluene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
2-Hexanone	BDL	0.0403		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
4-Chlorotoluene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
4-Methyl-2-pentanone	BDL	0.0403		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Acetone	BDL	0.101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Acetonitrile	BDL	0.0806		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Acrolein	BDL	0.0403		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Acrylonitrile	BDL	0.0403		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Allyl chloride	BDL	0.0202		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Benzene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Bromobenzene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Bromochloromethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Bromodichloromethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Bromoform	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Bromomethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Carbon Disulfide	BDL	0.0403		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Carbon Tetrachloride	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Chlorobenzene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Chloroethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Chloroform	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Chloromethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
cis-1,2-Dichloroethene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
cis-1,3-Dichloropropene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Dibromochloromethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Dibromomethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Dichlorodifluoromethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Ethylbenzene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM

Belmont Labs **Date:** 8/9/2010

_IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-19 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: D-4 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Iodomethane	BDL	0.0202		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Methylene Chloride	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Methyl tert-Butyl Ether	BDL	0.0202		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
m,p-Xylene	BDL	0.0202		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
n-Hexane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
o-Xylene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Styrene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Tetrachloroethene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Toluene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
trans-1,2-Dichloroethene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
trans-1,3-Dichloropropene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Trichloroethene	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Trichlorofluoromethane	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Vinyl Chloride	BDL	0.0101		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Vinyl acetate	BDL	0.0202		mg/kg dry	1.66	1030107	7/18/2010 4:40:00PM
Surrogate: 4-Bromofluorobenzene		*81.6 %*		*41-140*		*1030107*	7/18/2010 4:40:00PM
Surrogate: Dibromofluoromethane		*86.6 %*		*33-129*		*1030107*	7/18/2010 4:40:00PM
rogate: Toluene-d8		*86.0 %*		*44-130*		*1030107*	7/18/2010 4:40:00PM
Surrogate: 1,2-Dichloroethane-d4		*82.3 %*		*31-123*		*1030107*	7/18/2010 4:40:00PM

PMOIST **D 2216** **Analyst: AD**

Percent Moisture	17.7			% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-20 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: D-5 **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.19		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**10.9**		1.19		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**65.6**		1.19		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.452**		0.119		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**11.5**		1.19		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
ıd	**19.7**		1.19		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.97		mg/kg dry	1	1030260	7/23/2010 10:33:56AM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.110		mg/kg dry	1	1030270	7/23/2010 12:28:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Aroclor 1221	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Aroclor 1232	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Aroclor 1242	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Aroclor 1248	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Aroclor 1254	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Aroclor 1260	BDL		0.0240		mg/kg dry	1	1030005	7/21/2010 3:48:00AM
Surrogate: Decachlorobiphenyl		*109 %*			*40-159*		*1030005*	7/21/2010 3:48:00AM
Surrogate: Tetrachloro-m-xylene		*78.0 %*			*47-125*		*1030005*	7/21/2010 3:48:00AM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**17.2**				% by Weight	1	1030309	7/21/2010 5:00:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-21 **Collection Date:** 7/6/2010 12:00:00AM
Client Sample ID: TB-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260_TB	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
2-Butanone	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
2-Hexanone	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Methyl-2-pentanone	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Acetone	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Acetonitrile	BDL	40.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Acrolein	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Allyl chloride	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Benzene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Bromobenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Bromoform	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Bromomethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Chloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Chloroform	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Chloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Dibromomethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Iodomethane	BDL	10.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1030113	7/19/2010 3:54:00AM
p-Xylene	BDL	10.0		ug/L	1	1030113	7/19/2010 3:54:00AM
n-Butylbenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-21 **Collection Date:** 7/6/2010 12:00:00AM
Client Sample ID: TB-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
o-Xylene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Styrene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Toluene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Trichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1030113	7/19/2010 3:54:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1030113	7/19/2010 3:54:00AM
Surrogate: 4-Bromofluorobenzene	*119 %*			*41-140*		*1030113*	7/19/2010 3:54:00AM
Surrogate: Dibromofluoromethane	*120 %*			*34-158*		*1030113*	7/19/2010 3:54:00AM
Surrogate: Toluene-d8	*127 %*			*47-147*		*1030113*	7/19/2010 3:54:00AM
Surrogate: 1,2-Dichloroethane-d4	*117 %*			*29-163*		*1030113*	7/19/2010 3:54:00AM

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-22 **Collection Date:** 7/6/2010 4:35:00PM
Client Sample ID: EB-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	0.000500		mg/L	1	1030149	7/21/2010 7:17:08PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:17:08PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:17:08PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	BDL	0.000500		mg/L	1	1030149	7/21/2010 7:17:08PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:17:08PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
ad	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:17:08PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	0.0100		mg/L	1	1030149	7/21/2010 7:17:08PM
HG	**SW 7470A**					**Analyst: KC**	
Mercury	BDL	0.000200		mg/L	1	1030271	7/23/2010 12:51:00PM
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
2-Butanone	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
2-Hexanone	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
etone	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
etonitrile	BDL	40.0		ug/L	1	1030113	7/19/2010 8:16:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-22 **Collection Date:** 7/6/2010 4:35:00PM
Client Sample ID: EB-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Acrolein	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
Allyl chloride	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Benzene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Bromobenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Bromoform	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Bromomethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1030113	7/19/2010 8:16:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Chloroethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Chloroform	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Chloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Dibromomethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Iodomethane	BDL	10.0		ug/L	1	1030113	7/19/2010 8:16:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1030113	7/19/2010 8:16:00AM
m,p-Xylene	BDL	10.0		ug/L	1	1030113	7/19/2010 8:16:00AM
n-Hexane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
o-Xylene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Styrene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Toluene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Trichloroethene	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1030113	7/19/2010 8:16:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1030113	7/19/2010 8:16:00AM
Surrogate: 4-Bromofluorobenzene		*117 %*			*41-140*	*1030113*	7/19/2010 8:16:00AM
Surrogate: Dibromofluoromethane		*116 %*			*34-158*	*1030113*	7/19/2010 8:16:00AM
Surrogate: Toluene-d8		*125 %*			*47-147*	*1030113*	7/19/2010 8:16:00AM
Surrogate: 1,2-Dichloroethane-d4		*110 %*			*29-163*	*1030113*	7/19/2010 8:16:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-23 **Collection Date:** 7/7/2010 4:10:00PM
Client Sample ID: FB-1 **Matrix:** Groundwater

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		0.000500		mg/L	1	1030149	7/21/2010 5:11:59PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	BDL		0.00500		mg/L	1	1030149	7/21/2010 5:11:59PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	BDL		0.00500		mg/L	1	1030149	7/21/2010 5:11:59PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	BDL		0.000500		mg/L	1	1030149	7/21/2010 5:11:59PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	BDL		0.00500		mg/L	1	1030149	7/21/2010 5:11:59PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
ad	BDL		0.00500		mg/L	1	1030149	7/21/2010 5:11:59PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		0.0100		mg/L	1	1030149	7/21/2010 5:11:59PM
HG		**SW 7470A**					**Analyst: KC**	
Mercury	BDL		0.000200		mg/L	1	1030271	7/23/2010 12:54:00PM
VOC 8260		**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,1,1-Trichloroethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,1,2,2-Tetrachloroethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,1,2-Trichloroethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,1-Dichloroethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,1-Dichloroethene	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,1-Dichloropropene	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,2-Dibromoethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,2-Dichloroethane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,2-Dichloropropane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
1,3-Dichloropropane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
2,2-Dichloropropane	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
2-Butanone	BDL		20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
2-Chlorotoluene	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
2-Hexanone	BDL		20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
4-Chlorotoluene	BDL		5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
4-Methyl-2-pentanone	BDL		20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
etone	BDL		20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
etonitrile	BDL		40.0		ug/L	1	1030249	7/20/2010 3:34:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-23 **Collection Date:** 7/7/2010 4:10:00PM
Client Sample ID: FB-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Acrolein	BDL	20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
Allyl chloride	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Benzene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Bromobenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Bromoform	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Bromomethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1030249	7/20/2010 3:34:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Chloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Chloroform	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Chloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Dibromomethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Iodomethane	BDL	10.0		ug/L	1	1030249	7/20/2010 3:34:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1030249	7/20/2010 3:34:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1030249	7/20/2010 3:34:00PM
n-Hexane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
o-Xylene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Styrene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Toluene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Trichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1030249	7/20/2010 3:34:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1030249	7/20/2010 3:34:00PM
Surrogate: 4-Bromofluorobenzene	*111 %*			*41-140*		*1030249*	7/20/2010 3:34:00PM
Surrogate: Dibromofluoromethane	*119 %*			*34-158*		*1030249*	7/20/2010 3:34:00PM
Surrogate: Toluene-d8	*125 %*			*47-147*		*1030249*	7/20/2010 3:34:00PM
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*29-163*		*1030249*	7/20/2010 3:34:00PM

PAH_FULL_8270 **Analyst: mbg**

2-Methylnaphthalene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Acenaphthene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Acenaphthylene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0485
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0485-23 **Collection Date:** 7/7/2010 4:10:00PM
Client Sample ID: FB-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Anthracene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Benz(a)anthracene	BDL	0.260		ug/L	1	1029082	8/5/2010 11:33:00AM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1029082	8/5/2010 11:33:00AM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1029082	8/5/2010 11:33:00AM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1029082	8/5/2010 11:33:00AM
Chrysene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1029082	8/5/2010 11:33:00AM
Fluoranthene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Fluorene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1029082	8/5/2010 11:33:00AM
Naphthalene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Phenanthrene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Pyrene	BDL	10.0		ug/L	1	1029082	8/5/2010 11:33:00AM
Surrogate: Nitrobenzene-d5	*97.7 %*			*50-125*		*1029082*	8/5/2010 11:33:00AM
Surrogate: 2-Fluorobiphenyl	*73.4 %*			*50-120*		*1029082*	8/5/2010 11:33:00AM
Surrogate: Terphenyl-d14	*103 %*			*30-150*		*1029082*	8/5/2010 11:33:00AM

Belmont Labs
The Environmental Service Company.

ANALYTICAL REQUEST CHAIN OF CUSTODY

72.05876.0884

Internal Lab Order Number 1D0485

Purchase Order No.	Quote No.	Client Project
		Huckepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No: 513-771-2112 Fax No: 513-782-6908

Date Results Req: STD TAT Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of OH

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260	PAH 8270	PCB 8082	TPH 8015 C6-C12	TPH C10-C20 8015	TPH C20-C34 8015	RCRA Metals 6010/7470			Lab Only
MW-1 (8-10)	7/7/10	0840		X	S	2	X	X		X	X					
MW-1 (10-12)	7/7/10	0841		X	S	2			X			X				
MW-1 (16-18)	7/7/10	0851		X	S	3	X	X	X	X	X	X				
MW-3 (10-12)	7/6/10	1213		X	S	2	X	X	X	X	X					
MW-3 (12-14)		1216		X	S	1						X				
MW-3 (28-30)		1251		X	S	2	X	X		X	X					
MW-3 (30-32)		1259		X	S	2			X			X				
MW-4 (4-6)		1600		X	S	3	X	X	X	X	X	X				
MW-4 (8-10)		1606		X	S	2	X		X	X		X				
MW-4 (12-14)		1613		X	S	2		X			X					

CHAIN OF CUSTODY (if required)

Relinquished by: Matthew Tunnell (ATC) Date/Time 7-9-10 Received by: Date/Time 7/9/10, 100

Relinquished by: Date/Time Received at lab by: Date/Time 7/9/101645

Method of Shipment: BPEL Cooler Temp. 0.7, 4.6 Custody Seals ☒ Yes ☐ No

Sampled by: M. Nemeth, T. Beck Date 7/6-7/2010

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Belmont Labs
The Environmental Service Company.

ANALYTICAL REQUEST CHAIN OF CUSTODY

72.05876.08884

Internal Lab Order Number _____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No: 513-771-2112 Fax No: 513-782-6908

Date Results Req: STD TAT | Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type: ☐ NPDES ☐ RCRA ☐ SDWA ☒ VAP ☐ Other
Collected in State of OH

Matrix Key: DW - Drinking Water; GW - Ground Water; S - Soil/Solid; SL - Sludge; WW - Waste Water; Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260	PAH 8270	PCB 8082	TPH 8015 C6-C12	TPH C10-C20 8015 TPH C20-C34	RCRA Metals 6010/7470	Lab Only
B-5 (6-8)	7/6/10	1430		X	S	2	X	X	X	X	X	X	
B-5 (20-21)	"	1458		X	S	1			X			X	
B-5 (24-25)	"	1510		X	S	2	X	X		X	X		
B-6 (8-10)	7/7/10	0758		X	S	3	X	X	X	X	X	X	
B-6 (16-18)	7/7/10	0814		X	S	3	X	X	X	X	X	X	
D-1	7/7/10 ~~7/6/10~~	—		X	S	1			X			X	
D-2	7/6/10	—		X	S	1	X			X			
D-3	7/6/10	—		X	S	1		X			X		
D-4	7/7/10	—		X	S	1	X			X			
D-5	7/7/10	—		X	S	1		~~X~~ 1	X			X	

CHAIN OF CUSTODY (If required)

Relinquished by: Matthew Schmidt (ATC) Date/Time 7-9-10 Received by: Date/Time 7/9/10 1100

Relinquished by: Date/Time Received at lab by: Date/Time 7/9/10 1645

Method of Shipment: Cooler Temp. Custody Seals ☒ Yes ☐ No

Sampled by: M. Nemecek, T. Beck Date 7/6-7/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B. rm #9786-5/02

Belmont Labs
The Environmental Service Company.

ANALYTICAL REQUEST
CHAIN OF CUSTODY

Internal Lab Order Number _____

Purchase Order No. | Quote No. | Client Project: Hudepohl

INVOICE TO
Name: same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No: 513-771-2112 Fax No: 513-782-6906

Date Results Req: STD TAT | Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of OH

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 HNO3 HCl H2SO4 Ice None Other	PAH 8270 HNO3 HCl H2SO4 Ice None Other	PCB 8082 HNO3 HCl H2SO4 Ice None Other	TPH 8015 C6-C12 HNO3 HCl H2SO4 Ice None Other	TPH C10-C20 TPH C20-C34 8015 HNO3 HCl H2SO4 Ice None Other	RCRA Metals 6010/7470 HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	Lab Only
TB-1	7/6/10				W	1	X								
EB-1	7/6/10	1635			W	3	X				X				
FB-1	7/7/10	1610			W	5	X	X			X				

CHAIN OF CUSTODY (if required)

Relinquished by: Matthew Schmidt (ATC) Date/Time 7-9-10 Received by: Date/Time 7/9/10 1100

Relinquished by: Date/Time Received at lab by: Date/Time 7/9/10 1645

Method of Shipment: BRC Cooler Temp. REF Custody Seals ☒ Yes ☐ No

Sampled by: M. Nemeck, T. Beck Date 7/6-7/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Extractable Hydrocarbons by 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029210 - PREP_DRO_S										
Blank (1029210-BLK1)				Prepared: 07/16/10 Analyzed: 07/19/10						
C10 to C20	BDL	10.0	mg/kg wet							
C20 to C34	BDL	500	mg/kg wet							
Surrogate: o-Terphenyl	*2.64*		*mg/kg wet*	*5.000*		*52.8*	*48-115*			
LCS (1029210-BS1)				Prepared: 07/16/10 Analyzed: 07/19/10						
C10 to C20	122	10.0	mg/kg wet	125.7		96.7	52-119			
Surrogate: o-Terphenyl	*3.09*		*mg/kg wet*	*5.000*		*61.8*	*48-115*			
LCS Dup (1029210-BSD1)				Prepared: 07/16/10 Analyzed: 07/19/10						
C10 to C20	124	10.0	mg/kg wet	125.7		98.5	52-119	1.87	11	
Surrogate: o-Terphenyl	*2.57*		*mg/kg wet*	*5.000*		*51.3*	*48-115*			
Batch 1030222 - PREP_DRO_S										
Blank (1030222-BLK1)				Prepared: 07/20/10 Analyzed: 07/22/10						
C10 to C20	BDL	10.0	mg/kg wet							
C20 to C34	BDL	500	mg/kg wet							
Surrogate: o-Terphenyl	*1.89*		*mg/kg wet*	*5.000*		*37.7*	*28-107*			
LCS (1030222-BS1)				Prepared: 07/20/10 Analyzed: 07/22/10						
C10 to C20	86.7	10.0	mg/kg wet	125.7		69.0	52-119			
Surrogate: o-Terphenyl	*1.65*		*mg/kg wet*	*5.000*		*33.0*	*28-107*			
LCS Dup (1030222-BSD1)				Prepared: 07/20/10 Analyzed: 07/22/10						
C10 to C20	100	10.0	mg/kg wet	125.7		79.9	52-119	14.7	11	R
Surrogate: o-Terphenyl	*1.98*		*mg/kg wet*	*5.000*		*39.6*	*28-107*			

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030021 - GC Prep										
Blank (1030021-BLK1)				Prepared & Analyzed: 07/16/10						
Gasoline Range Organics, C6 - C12	BDL	5.00	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*0.103*		*mg/L*	*0.1000*		*103*	*60-155*			
LCS (1030021-BS1)				Prepared & Analyzed: 07/16/10						
Gasoline Range Organics, C6 - C12	10.6	5.00	mg/kg wet	10.00		106	80-118			
Surrogate: a,a,a-Trifluorotoluene	*0.0920*		*mg/L*	*0.1000*		*92.0*	*60-155*			
LCS Dup (1030021-BSD1)				Prepared & Analyzed: 07/16/10						
Gasoline Range Organics, C6 - C12	10.7	5.00	mg/kg wet	10.00		107	80-118	0.516	10	
Surrogate: a,a,a-Trifluorotoluene	*0.123*		*mg/L*	*0.1000*		*123*	*60-155*			
Matrix Spike (1030021-MS1)	**Source: 10G0485-01**			Prepared: 07/16/10 Analyzed: 07/17/10						
Gasoline Range Organics, C6 - C12	20.1	5.88	mg/kg dry	23.75	ND	84.5	56-84			M
Surrogate: a,a,a-Trifluorotoluene	*0.0980*		*mg/L*	*0.1000*		*98.0*	*60-155*			
Matrix Spike Dup (1030021-MSD1)	**Source: 10G0485-01**			Prepared: 07/16/10 Analyzed: 07/17/10						
oline Range Organics, C6 - C12	20.9	5.82	mg/kg dry	23.75	ND	87.9	56-84	3.94	20	M
Surrogate: a,a,a-Trifluorotoluene	*0.0960*		*mg/L*	*0.1000*		*96.0*	*60-155*			
Batch 1030022 - GC Prep										
Blank (1030022-BLK1)				Prepared: 07/16/10 Analyzed: 07/17/10						
Gasoline Range Organics, C6 - C12	BDL	5.00	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*0.104*		*mg/L*	*0.1000*		*104*	*60-155*			
LCS (1030022-BS1)				Prepared: 07/16/10 Analyzed: 07/17/10						
Gasoline Range Organics, C6 - C12	10.2	5.00	mg/kg wet	10.00		102	80-118			
Surrogate: a,a,a-Trifluorotoluene	*0.0910*		*mg/L*	*0.1000*		*91.0*	*60-155*			

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030022 - GC Prep										
LCS Dup (1030022-BSD1)				Prepared: 07/16/10 Analyzed: 07/17/10						
Gasoline Range Organics, C6 - C12	10.3	5.00	mg/kg wet	10.00		103	80-118	0.926	10	
Surrogate: a,a,a-Trifluorotoluene	*0.0910*		*mg/L*	*0.1000*		*91.0*	*60-155*			
Matrix Spike (1030022-MS1)		**Source: 10G0485-06**		Prepared: 07/16/10 Analyzed: 07/17/10						
Gasoline Range Organics, C6 - C12	18.2	5.24	mg/kg dry	21.16	ND	85.9	56-84			M
Surrogate: a,a,a-Trifluorotoluene	*0.102*		*mg/L*	*0.1000*		*102*	*60-155*			
Matrix Spike Dup (1030022-MSD1)		**Source: 10G0485-06**		Prepared: 07/16/10 Analyzed: 07/17/10						
Gasoline Range Organics, C6 - C12	17.1	5.18	mg/kg dry	21.16	ND	81.0	56-84	5.88	20	
Surrogate: a,a,a-Trifluorotoluene	*0.104*		*mg/L*	*0.1000*		*104*	*60-155*			

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030149 - PREP_ICP_W										
Blank (1030149-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Arsenic	BDL	0.00500	mg/L							
Barium	BDL	0.00500	mg/L							
Cadmium	BDL	0.000500	mg/L							
Chromium	BDL	0.00500	mg/L							
Lead	BDL	0.00500	mg/L							
Selenium	BDL	0.0100	mg/L							
Silver	BDL	0.000500	mg/L							
LCS (1030149-BS1)				Prepared & Analyzed: 07/21/10						
Arsenic	1.03	0.00500	mg/L	1.000		103	85-115			
Barium	0.987	0.00500	mg/L	1.000		98.7	85-115			
Cadmium	1.00	0.000500	mg/L	1.000		100	85-115			
Chromium	1.02	0.00500	mg/L	1.000		102	85-115			
Lead	1.02	0.00500	mg/L	1.000		102	85-115			
Selenium	1.03	0.0100	mg/L	1.000		103	85-115			
Silver	1.02	0.000500	mg/L	1.000		102	85-115			
LCS Dup (1030149-BSD1)				Prepared & Analyzed: 07/21/10						
Arsenic	1.03	0.00500	mg/L	1.000		103	85-115	0.00	20	
Barium	0.991	0.00500	mg/L	1.000		99.1	85-115	0.404	20	
Cadmium	1.00	0.000500	mg/L	1.000		100	85-115	0.00	20	
Chromium	1.02	0.00500	mg/L	1.000		102	85-115	0.00	20	
Lead	1.02	0.00500	mg/L	1.000		102	85-115	0.00	20	
Selenium	1.03	0.0100	mg/L	1.000		103	85-115	0.00	20	
Silver	1.01	0.000500	mg/L	1.000		101	85-115	0.985	20	
Duplicate (1030149-DUP1)	**Source: 10G0396-01**			Prepared & Analyzed: 07/21/10						
Arsenic	0.0406	0.00500	mg/L		0.0508			22.3	20	R
Barium	0.223	0.00500	mg/L		0.227			1.78	20	
Cadmium	0.00128	0.000500	mg/L		0.00116			9.84	20	
Chromium	0.0246	0.00500	mg/L		0.0257			4.37	20	
Lead	0.0104	0.00500	mg/L		0.00892			15.3	20	
Selenium	BDL	0.0100	mg/L		ND				20	
Silver	BDL	0.000500	mg/L		ND				20	

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030149 - PREP_ICP_W										
Matrix Spike (1030149-MS1)	**Source: 10G0485-23**			Prepared & Analyzed: 07/21/10						
Arsenic	1.01	0.00500	mg/L	1.000	ND	101	75-125			
Barium	0.960	0.00500	mg/L	1.000	ND	96.0	75-125			
Cadmium	0.980	0.000500	mg/L	1.000	ND	98.0	75-125			
Chromium	1.00	0.00500	mg/L	1.000	0.00214	99.8	75-125			
Lead	0.996	0.00500	mg/L	1.000	ND	99.6	75-125			
Selenium	1.01	0.0100	mg/L	1.000	0.00232	101	75-125			
Silver	0.984	0.000500	mg/L	1.000	0.000490	98.4	75-125			
Matrix Spike Dup (1030149-MSD1)	**Source: 10G0485-23**			Prepared & Analyzed: 07/21/10						
Arsenic	1.02	0.00500	mg/L	1.000	ND	102	75-125	0.985	20	
Barium	0.960	0.00500	mg/L	1.000	ND	96.0	75-125	0.00	20	
Cadmium	0.986	0.000500	mg/L	1.000	ND	98.6	75-125	0.610	20	
Chromium	1.01	0.00500	mg/L	1.000	0.00214	101	75-125	0.995	20	
Lead	1.00	0.00500	mg/L	1.000	ND	100	75-125	0.401	20	
Selenium	1.01	0.0100	mg/L	1.000	0.00232	101	75-125	0.00	20	
Silver	0.994	0.000500	mg/L	1.000	0.000490	99.4	75-125	1.01	20	
ost Spike (1030149-PS1)	**Source: 10G0485-23**			Prepared & Analyzed: 07/21/10						
Arsenic	0.794		mg/L	1.000	0.00155	79.2	0-200			
Barium	0.969		mg/L	1.000	-0.00150	97.0	0-200			
Cadmium	0.987		mg/L	1.000	-0.0000800	98.7	0-200			
Chromium	1.01		mg/L	1.000	0.00214	101	0-200			
Lead	1.00		mg/L	1.000	0.000840	99.9	0-200			
Selenium	1.01		mg/L	1.000	0.00232	101	0-200			
Silver	0.986		mg/L	1.000	0.000490	98.6	0-200			
Batch 1030260 - PREP_ICP_S										
Blank (1030260-BLK1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	BDL	1.00	mg/kg wet							
Barium	BDL	1.00	mg/kg wet							
Cadmium	BDL	0.100	mg/kg wet							
Chromium	BDL	1.00	mg/kg wet							
Lead	BDL	1.00	mg/kg wet							
Selenium	BDL	5.00	mg/kg wet							
Silver	BDL	1.00	mg/kg wet							

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030260 - PREP_ICP_S										
LCS (1030260-BS1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	99.6	1.00	mg/kg wet	100.0		99.6	80-120			
Barium	98.0	1.00	mg/kg wet	100.0		98.0	80-120			
Cadmium	98.5	0.100	mg/kg wet	100.0		98.5	80-120			
Chromium	98.3	1.00	mg/kg wet	100.0		98.3	80-120			
Lead	99.0	1.00	mg/kg wet	100.0		99.0	80-120			
Selenium	99.1	5.00	mg/kg wet	100.0		99.1	80-120			
Silver	98.0	1.00	mg/kg wet	100.0		98.0	80-120			
LCS Dup (1030260-BSD1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	98.3	1.00	mg/kg wet	100.0		98.3	80-120	1.31	20	
Barium	96.4	1.00	mg/kg wet	100.0		96.4	80-120	1.65	20	
Cadmium	97.6	0.100	mg/kg wet	100.0		97.6	80-120	0.918	20	
Chromium	97.6	1.00	mg/kg wet	100.0		97.6	80-120	0.715	20	
Lead	98.0	1.00	mg/kg wet	100.0		98.0	80-120	1.02	20	
Selenium	98.1	5.00	mg/kg wet	100.0		98.1	80-120	1.01	20	
Silver	96.9	1.00	mg/kg wet	100.0		96.9	80-120	1.13	20	
Duplicate (1030260-DUP1)		**Source: 10G0482-48**		Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	18.5	1.12	mg/kg dry		16.4			11.8	20	
Barium	591	1.12	mg/kg dry		426			32.6	20	
Cadmium	2.57	0.112	mg/kg dry		2.73			5.95	20	
Chromium	152	1.12	mg/kg dry		54.5			94.5	20	R
Lead	7260	1.12	mg/kg dry		2610			94.2	20	R
Selenium	BDL	5.60	mg/kg dry		ND				20	
Silver	BDL	1.12	mg/kg dry		ND				20	
Matrix Spike (1030260-MS1)		**Source: 10G0482-48**		Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	126	1.10	mg/kg dry	110.2	16.4	99.1	75-125			
Barium	667	1.10	mg/kg dry	110.2	426	219	75-125			QM-05
Cadmium	105	0.110	mg/kg dry	110.2	2.73	92.8	75-125			
Chromium	164	1.10	mg/kg dry	110.2	54.5	99.5	75-125			
Lead	4230	1.10	mg/kg dry	110.2	2610	NR	75-125			QM-05
Selenium	101	5.51	mg/kg dry	110.2	ND	91.2	75-125			
Silver	105	1.10	mg/kg dry	110.2	ND	95.5	75-125			

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030260 - PREP_ICP_S										
Matrix Spike Dup (1030260-MSD1)	**Source: 10G0482-48**			Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	114	1.08	mg/kg dry	108.4	16.4	89.9	75-125	9.90	20	
Barium	549	1.08	mg/kg dry	108.4	426	113	75-125	19.5	20	
Cadmium	102	0.108	mg/kg dry	108.4	2.73	91.2	75-125	3.38	20	
Chromium	172	1.08	mg/kg dry	108.4	54.5	109	75-125	4.81	20	
Lead	1950	1.08	mg/kg dry	108.4	2610	NR	75-125	73.8	20	QM-05
Selenium	98.2	5.42	mg/kg dry	108.4	ND	90.6	75-125	2.34	20	
Silver	103	1.08	mg/kg dry	108.4	ND	94.9	75-125	2.31	20	
Post Spike (1030260-PS1)	**Source: 10G0482-48**			Prepared: 07/22/10 Analyzed: 07/23/10						
Arsenic	1.15		mg/L	1.000	0.156	99.4	0-200			
Barium	5.15		mg/L	1.000	4.05	110	0-200			
Chromium	1.98		mg/L	1.000	0.519	146	0-200			
Lead	40.2		mg/L	1.000	24.9	NR	0-200			A-01
Selenium	0.936		mg/L	1.000	-0.000144	93.6	0-200			
Silver	0.960		mg/L	1.000	-0.00720	96.7	0-200			

Mercury Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030269 - PREP_HG_S										
Blank (1030269-BLK1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	BDL	0.100	mg/kg wet							
LCS (1030269-BS1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.875	0.100	mg/kg wet	0.8333		105	80-120			
LCS Dup (1030269-BSD1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.867	0.100	mg/kg wet	0.8333		104	80-120	1	20	
Matrix Spike (1030269-MS1)		**Source: 10G0480-01**		Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.0235	0.0986	mg/kg dry	0.8219	ND	3	70-130			QM-05
Matrix Spike Dup (1030269-MSD1)		**Source: 10G0480-01**		Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.0302	0.0986	mg/kg dry	0.8219	ND	4	70-130	25	30	QM-05
Batch 1030270 - PREP_HG_S										
Blank (1030270-BLK1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	BDL	0.100	mg/kg wet							
LCS (1030270-BS1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.820	0.100	mg/kg wet	0.8333		98	80-120			
LCS Dup (1030270-BSD1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.795	0.100	mg/kg wet	0.8333		95	80-120	3	20	
Matrix Spike (1030270-MS1)		**Source: 10G0482-13**		Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	1.03	0.127	mg/kg dry	1.061	ND	97	70-130			

Mercury Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030270 - PREP_HG_S										
Matrix Spike Dup (1030270-MSD1)		**Source: 10G0482-13**		Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	1.05	0.130	mg/kg dry	1.080	ND	97	70-130	2	30	
Batch 1030271 - PREP_HG_W										
Blank (1030271-BLK1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	BDL	0.000200	mg/L							
LCS (1030271-BS1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.00621	0.000200	mg/L	0.006250		99	80-120			
LCS Dup (1030271-BSD1)				Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.00607	0.000200	mg/L	0.006250		97	80-120	2	20	
Matrix Spike (1030271-MS1)		**Source: 10G0480-08**		Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.00602	0.000200	mg/L	0.006250	ND	96	70-130			
Matrix Spike Dup (1030271-MSD1)		**Source: 10G0480-08**		Prepared: 07/22/10 Analyzed: 07/23/10						
Mercury	0.00608	0.000200	mg/L	0.006250	ND	97	70-130	1	30	

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030005 - PREP_PP_S										
Blank (1030005-BLK1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Aroclor 1016	BDL	0.0200	mg/kg wet							
Aroclor 1221	BDL	0.0200	mg/kg wet							
Aroclor 1232	BDL	0.0200	mg/kg wet							
Aroclor 1242	BDL	0.0200	mg/kg wet							
Aroclor 1248	BDL	0.0200	mg/kg wet							
Aroclor 1254	BDL	0.0200	mg/kg wet							
Aroclor 1260	BDL	0.0200	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0400*		*mg/kg wet*	*0.03333*		*120*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0367*		*mg/kg wet*	*0.03333*		*110*	*47-125*			
LCS (1030005-BS1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Aroclor 1016	0.320	0.0200	mg/kg wet	0.3333		96.1	51-168			
Aroclor 1260	0.356	0.0200	mg/kg wet	0.3333		107	51-173			
Surrogate: Decachlorobiphenyl	*0.0497*		*mg/kg wet*	*0.03333*		*149*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0367*		*mg/kg wet*	*0.03333*		*110*	*47-125*			
S Dup (1030005-BSD1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Aroclor 1016	0.321	0.0200	mg/kg wet	0.3333		96.2	51-168	0.104	24	
Aroclor 1260	0.334	0.0200	mg/kg wet	0.3333		100	51-173	6.38	25	
Surrogate: Decachlorobiphenyl	*0.0420*		*mg/kg wet*	*0.03333*		*126*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0347*		*mg/kg wet*	*0.03333*		*104*	*47-125*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
Blank (1030113-BLK1)				Prepared: 07/18/10 Analyzed: 07/19/10						
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,1-Trichloroethane	3.76	1.00	ug/L							B-05
1,1,1-Trichloroethane	BDL	5.00	ug/L							B-05
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	1.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	2.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	1.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
'-Dibromoethane	BDL	5.00	ug/L							
-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	1.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	1.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	1.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	1.00	ug/L							
2-Butanone	BDL	20.0	ug/L							
2-Butanone	BDL	10.0	ug/L							
2-Chlorotoluene	BDL	5.00	ug/L							
2-Chlorotoluene	BDL	1.00	ug/L							
2-Hexanone	BDL	20.0	ug/L							
2-Hexanone	BDL	10.0	ug/L							
4-Chlorotoluene	BDL	5.00	ug/L							
4-Chlorotoluene	BDL	1.00	ug/L							
4-Methyl-2-pentanone	BDL	20.0	ug/L							
4-Methyl-2-pentanone	BDL	10.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetone	BDL	10.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
Acrylonitrile	BDL	10.0	ug/L							
'yl chloride	BDL	5.00	ug/L							
yl chloride	BDL	1.00	ug/L							
Benzene	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
Blank (1030113-BLK1)				Prepared: 07/18/10 Analyzed: 07/19/10						
Benzene	BDL	1.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromobenzene	BDL	1.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromochloromethane	BDL	1.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	1.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromoform	BDL	1.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Bromomethane	BDL	2.00	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Disulfide	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	1.00	ug/L							
orobenzene	BDL	1.00	ug/L							
.dorobenzene	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroethane	BDL	1.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloroform	BDL	1.00	ug/L							
Chloromethane	BDL	1.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
cis-1,2-Dichloroethene	BDL	1.00	ug/L							
cis-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	1.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
Dibromochloromethane	BDL	1.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromomethane	BDL	1.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	2.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Ethylbenzene	BDL	1.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methylene Chloride	BDL	1.00	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
m,p-Xylene	BDL	10.0	ug/L							
-Xylene	BDL	2.00	ug/L							
.3utylbenzene	BDL	5.00	ug/L							
n-Hexane	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
Blank (1030113-BLK1)				Prepared: 07/18/10 Analyzed: 07/19/10						
n-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
o-Xylene	BDL	1.00	ug/L							
Styrene	BDL	5.00	ug/L							
Styrene	BDL	1.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	2.00	ug/L							
Toluene	BDL	5.00	ug/L							
Toluene	BDL	1.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	1.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	1.00	ug/L							
Trichloroethene	BDL	2.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	2.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*64.8*		*ug/L*	*50.00*		*130*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*64.8*		*ug/L*	*50.00*		*130*	*41-140*			
Surrogate: Dibromofluoromethane	*62.8*		*ug/L*	*50.00*		*126*	*34-158*			
Surrogate: Dibromofluoromethane	*62.8*		*ug/L*	*50.00*		*126*	*34-158*			
Surrogate: Toluene-d8	*69.0*		*ug/L*	*50.00*		*138*	*47-147*			
Surrogate: Toluene-d8	*69.0*		*ug/L*	*50.00*		*138*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*59.4*		*ug/L*	*50.00*		*119*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*59.4*		*ug/L*	*50.00*		*119*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
Blank (1030113-BLK2)				Prepared: 07/20/10 Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,1-Trichloroethane	BDL	1.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,2-Trichloroethane	BDL	1.00	ug/L							
1,1-Dichloroethane	BDL	2.00	ug/L							
1,1-Dichloroethene	BDL	1.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	1.00	ug/L							
1,2-Dichloropropane	BDL	1.00	ug/L							
1,3-Dichloropropane	BDL	1.00	ug/L							
2,2-Dichloropropane	BDL	1.00	ug/L							
2-Butanone	BDL	10.0	ug/L							
2-Chlorotoluene	BDL	1.00	ug/L							
2-Hexanone	BDL	10.0	ug/L							
'hlorotoluene	BDL	1.00	ug/L							
Methyl-2-pentanone	BDL	10.0	ug/L							
Acetone	BDL	10.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	10.0	ug/L							
Allyl chloride	BDL	1.00	ug/L							
Benzene	BDL	1.00	ug/L							
Bromobenzene	BDL	1.00	ug/L							
Bromochloromethane	BDL	1.00	ug/L							
Bromodichloromethane	BDL	1.00	ug/L							
Bromoform	BDL	1.00	ug/L							
Bromomethane	BDL	2.00	ug/L							
Carbon Disulfide	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	1.00	ug/L							
Chlorobenzene	BDL	1.00	ug/L							
Chloroethane	BDL	1.00	ug/L							
Chloroform	BDL	1.00	ug/L							
Chloromethane	BDL	1.00	ug/L							
cis-1,2-Dichloroethene	BDL	1.00	ug/L							
cis-1,3-Dichloropropene	BDL	1.00	ug/L							
Dibromochloromethane	BDL	1.00	ug/L							
Dibromomethane	BDL	1.00	ug/L							
Dichlorodifluoromethane	BDL	2.00	ug/L							
Ethylbenzene	BDL	1.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	1.00	ug/L							
'yl tert-Butyl Ether	BDL	10.0	ug/L							
,-Xylene	BDL	2.00	ug/L							
n-Hexane	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
Blank (1030113-BLK2)				Prepared: 07/20/10 Analyzed: 07/21/10						
o-Xylene	BDL	1.00	ug/L							
Styrene	BDL	1.00	ug/L							
Tetrachloroethene	BDL	2.00	ug/L							
Toluene	BDL	1.00	ug/L							
trans-1,2-Dichloroethene	BDL	1.00	ug/L							
trans-1,3-Dichloropropene	BDL	1.00	ug/L							
Trichloroethene	BDL	2.00	ug/L							
Trichlorofluoromethane	BDL	2.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*55.8*		*ug/L*	*50.00*		*112*	*41-140*			
Surrogate: Dibromofluoromethane	*59.4*		*ug/L*	*50.00*		*119*	*34-158*			
Surrogate: Toluene-d8	*62.4*		*ug/L*	*50.00*		*125*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*58.4*		*ug/L*	*50.00*		*117*	*29-163*			
CS (1030113-BS1)				Prepared & Analyzed: 07/18/10						
,1,2-Tetrachloroethane	21.7	1.00	ug/L	20.00		108	78-128			
1,1,1,2-Tetrachloroethane	21.7	1.00	ug/L	20.00		108	78-128			
1,1,1-Trichloroethane	29.1	1.00	ug/L	20.00		146	70-135			L, B
1,1,1-Trichloroethane	29.1	1.00	ug/L	20.00		146	70-135			L
1,1,2,2-Tetrachloroethane	18.0	1.00	ug/L	20.00		90.2	68-135			
1,1,2,2-Tetrachloroethane	18.0	1.00	ug/L	20.00		90.2	68-135			
1,1,2-Trichloroethane	21.7	1.00	ug/L	20.00		108	74-131			
1,1,2-Trichloroethane	21.7	1.00	ug/L	20.00		108	74-131			
1,1-Dichloroethane	22.4	2.00	ug/L	20.00		112	72-134			
1,1-Dichloroethane	22.4	2.00	ug/L	20.00		112	72-134			
1,1-Dichloroethene	19.3	1.00	ug/L	20.00		96.4	62-143			
1,1-Dichloroethene	19.3	1.00	ug/L	20.00		96.4	62-143			
1,1-Dichloropropene	21.1	5.00	ug/L	20.00		106	82-128			
1,1-Dichloropropene	21.1	5.00	ug/L	20.00		106	82-128			
1,2-Dibromoethane	20.0	5.00	ug/L	20.00		100	67-132			
1,2-Dibromoethane	20.0	5.00	ug/L	20.00		100	67-132			
1,2-Dichloroethane	20.6	1.00	ug/L	20.00		103	72-131			
1,2-Dichloroethane	20.6	1.00	ug/L	20.00		103	72-131			
1,2-Dichloropropane	22.0	1.00	ug/L	20.00		110	75-128			
1,2-Dichloropropane	22.0	1.00	ug/L	20.00		110	75-128			
1,3-Dichloropropane	21.2	1.00	ug/L	20.00		106	73-130			
1,3-Dichloropropane	21.2	1.00	ug/L	20.00		106	73-130			
2,2-Dichloropropane	16.9	1.00	ug/L	20.00		84.4	45-173			
2,2-Dichloropropane	16.9	1.00	ug/L	20.00		84.4	45-173			
2-Butanone	74.9	10.0	ug/L	80.00		93.6	42-140			
2-Butanone	74.9	10.0	ug/L	80.00		93.6	42-140			
2-Chlorotoluene	22.6	1.00	ug/L	20.00		113	76-126			
Chlorotoluene	22.6	1.00	ug/L	20.00		113	76-126			
2-Hexanone	86.2	10.0	ug/L	80.00		108	18-178			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS (1030113-BS1)				Prepared & Analyzed: 07/18/10						
2-Hexanone	86.2	10.0	ug/L	80.00		108	18-178			
4-Chlorotoluene	22.7	1.00	ug/L	20.00		113	77-132			
4-Chlorotoluene	22.7	1.00	ug/L	20.00		113	77-132			
4-Methyl-2-pentanone	89.8	10.0	ug/L	80.00		112	42-160			
4-Methyl-2-pentanone	89.8	10.0	ug/L	80.00		112	42-160			
Acetone	79.7	10.0	ug/L	80.00		99.6	30-173			
Acetone	79.7	10.0	ug/L	80.00		99.6	30-173			
Acetonitrile	22.5	40.0	ug/L	20.00		113	58-150			
Acetonitrile	22.5	40.0	ug/L	20.00		113	58-150			
Acrylonitrile	21.0	10.0	ug/L	20.00		105	64-153			
Acrylonitrile	21.0	10.0	ug/L	20.00		105	64-153			
Allyl chloride	24.0	1.00	ug/L	20.00		120	67-149			
Allyl chloride	24.0	1.00	ug/L	20.00		120	67-149			
Benzene	20.6	1.00	ug/L	20.00		103	77-126			
Benzene	20.6	1.00	ug/L	20.00		103	77-126			
mobenzene	22.0	1.00	ug/L	20.00		110	72-131			
..romobenzene	22.0	1.00	ug/L	20.00		110	72-131			
Bromochloromethane	20.8	1.00	ug/L	20.00		104	71-135			
Bromochloromethane	20.8	1.00	ug/L	20.00		104	71-135			
Bromodichloromethane	22.2	1.00	ug/L	20.00		111	78-129			
Bromodichloromethane	22.2	1.00	ug/L	20.00		111	78-129			
Bromoform	20.2	1.00	ug/L	20.00		101	69-135			
Bromoform	20.2	1.00	ug/L	20.00		101	69-135			
Bromomethane	20.1	2.00	ug/L	20.00		100	14-193			
Bromomethane	20.1	2.00	ug/L	20.00		100	14-193			
Carbon Disulfide	12.6	5.00	ug/L	20.00		62.8	54-150			
Carbon Disulfide	12.6	5.00	ug/L	20.00		62.8	54-150			
Carbon Tetrachloride	19.9	1.00	ug/L	20.00		99.4	67-138			
Carbon Tetrachloride	19.9	1.00	ug/L	20.00		99.4	67-138			
Chlorobenzene	21.8	1.00	ug/L	20.00		109	77-125			
Chlorobenzene	21.8	1.00	ug/L	20.00		109	77-125			
Chloroethane	19.3	1.00	ug/L	20.00		96.6	27-170			
Chloroethane	19.3	1.00	ug/L	20.00		96.6	27-170			
Chloroform	21.9	1.00	ug/L	20.00		110	73-136			
Chloroform	21.9	1.00	ug/L	20.00		110	73-136			
Chloromethane	31.7	1.00	ug/L	20.00		159	44-145			L
Chloromethane	31.7	1.00	ug/L	20.00		159	44-145			L
cis-1,2-Dichloroethene	21.5	1.00	ug/L	20.00		108	77-137			
cis-1,2-Dichloroethene	21.5	1.00	ug/L	20.00		108	77-137			
cis-1,3-Dichloropropene	21.0	1.00	ug/L	20.00		105	70-133			
cis-1,3-Dichloropropene	21.0	1.00	ug/L	20.00		105	70-133			
Dibromochloromethane	21.3	1.00	ug/L	20.00		107	68-131			
romochloromethane	21.3	1.00	ug/L	20.00		107	68-131			
..ibromomethane	20.9	1.00	ug/L	20.00		104	74-129			
Dibromomethane	20.9	1.00	ug/L	20.00		104	74-129			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS (1030113-BS1)				Prepared & Analyzed: 07/18/10						
Dichlorodifluoromethane	17.7	2.00	ug/L	20.00		88.3	41-145			
Dichlorodifluoromethane	17.7	2.00	ug/L	20.00		88.3	41-145			
Ethyl acetate	21.9	5.00	ug/L	22.46		97.4	28-162			
Ethylbenzene	21.7	1.00	ug/L	20.00		109	79-126			
Ethylbenzene	21.7	1.00	ug/L	20.00		109	79-126			
Iodomethane	17.1	10.0	ug/L	20.00		85.6	52-150			
Iodomethane	17.1	10.0	ug/L	20.00		85.6	52-150			
Methylene Chloride	21.1	1.00	ug/L	20.00		105	43-162			
Methylene Chloride	21.1	1.00	ug/L	20.00		105	43-162			
Methyl tert-Butyl Ether	21.2	10.0	ug/L	20.00		106	63-134			
Methyl tert-Butyl Ether	21.2	10.0	ug/L	20.00		106	63-134			
m,p-Xylene	45.4	2.00	ug/L	40.00		113	82-132			
m,p-Xylene	45.4	2.00	ug/L	40.00		113	82-132			
n-Butylbenzene	24.4	1.00	ug/L	20.00		122	80-135			
n-Hexane	22.7	5.00	ug/L	20.00		114	10-216			
Hexane	22.7	5.00	ug/L	20.00		114	10-216			
Xylene	23.4	1.00	ug/L	20.00		117	81-128			
o-Xylene	23.4	1.00	ug/L	20.00		117	81-128			
Styrene	23.6	1.00	ug/L	20.00		118	81-129			
Styrene	23.6	1.00	ug/L	20.00		118	81-129			
Tetrachloroethene	35.4	1.00	ug/L	20.00		177	43-152			L
Tetrachloroethene	35.4	2.00	ug/L	20.00		177	43-152			L
Toluene	22.1	1.00	ug/L	20.00		110	79-128			
Toluene	22.1	1.00	ug/L	20.00		110	79-128			
trans-1,2-Dichloroethene	19.9	1.00	ug/L	20.00		99.7	60-144			
trans-1,2-Dichloroethene	19.9	1.00	ug/L	20.00		99.7	60-144			
trans-1,3-Dichloropropene	21.6	1.00	ug/L	20.00		108	67-138			
trans-1,3-Dichloropropene	21.6	1.00	ug/L	20.00		108	67-138			
Trichloroethene	24.2	1.00	ug/L	20.00		121	74-132			
Trichloroethene	24.2	2.00	ug/L	20.00		121	74-132			
Trichlorofluoromethane	23.5	2.00	ug/L	20.00		118	48-170			
Trichlorofluoromethane	23.5	2.00	ug/L	20.00		118	48-170			
Vinyl Chloride	21.7	1.00	ug/L	20.00		108	60-143			
Vinyl Chloride	21.7	1.00	ug/L	20.00		108	60-143			
Vinyl acetate	8.00	10.0	ug/L	20.00		40.0	16-196			
Vinyl acetate	8.00	10.0	ug/L	20.00		40.0	16-196			
Surrogate: 4-Bromofluorobenzene	*65.8*		*ug/L*	*50.00*		*132*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*65.8*		*ug/L*	*50.00*		*132*	*41-140*			
Surrogate: Dibromofluoromethane	*62.2*		*ug/L*	*50.00*		*124*	*34-158*			
Surrogate: Dibromofluoromethane	*62.2*		*ug/L*	*50.00*		*124*	*34-158*			
Surrogate: Toluene-d8	*68.3*		*ug/L*	*50.00*		*137*	*47-147*			
Surrogate: Toluene-d8	*68.3*		*ug/L*	*50.00*		*137*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*59.0*		*ug/L*	*50.00*		*118*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*59.0*		*ug/L*	*50.00*		*118*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS (1030113-BS2)				Prepared & Analyzed: 07/20/10						
1,1,1,2-Tetrachloroethane	20.7	1.00	ug/L	20.00		104	78-128			
1,1,1-Trichloroethane	19.2	1.00	ug/L	20.00		96.1	70-135			B
1,1,2,2-Tetrachloroethane	19.6	1.00	ug/L	20.00		97.9	68-135			
1,1,2-Trichloroethane	20.0	1.00	ug/L	20.00		99.8	74-131			
1,1-Dichloroethane	19.1	2.00	ug/L	20.00		95.7	72-134			
1,1-Dichloroethene	16.9	1.00	ug/L	20.00		84.3	62-143			
1,1-Dichloropropene	17.7	5.00	ug/L	20.00		88.4	82-128			
1,2-Dibromoethane	18.1	5.00	ug/L	20.00		90.6	67-132			
1,2-Dichloroethane	18.4	1.00	ug/L	20.00		92.2	72-131			
1,2-Dichloropropane	19.3	1.00	ug/L	20.00		96.3	75-128			
1,3-Dichloropropane	18.9	1.00	ug/L	20.00		94.6	73-130			
2,2-Dichloropropane	15.8	1.00	ug/L	20.00		79.2	45-173			
2-Butanone	62.0	10.0	ug/L	80.00		77.5	42-140			
2-Chlorotoluene	21.2	1.00	ug/L	20.00		106	76-126			
?-Hexanone	72.8	10.0	ug/L	80.00		91.1	18-178			
ılorotoluene	22.1	1.00	ug/L	20.00		110	77-132			
,-Methyl-2-pentanone	78.2	10.0	ug/L	80.00		97.8	42-160			
Acetone	65.2	10.0	ug/L	80.00		81.6	30-173			
Acetonitrile	18.2	40.0	ug/L	20.00		91.1	58-150			
Acrylonitrile	16.8	10.0	ug/L	20.00		84.2	64-153			
Allyl chloride	15.4	1.00	ug/L	20.00		77.1	67-149			
Benzene	18.5	1.00	ug/L	20.00		92.5	77-126			
Bromobenzene	21.4	1.00	ug/L	20.00		107	72-131			
Bromochloromethane	19.6	1.00	ug/L	20.00		97.9	71-135			
Bromodichloromethane	19.7	1.00	ug/L	20.00		98.6	78-129			
Bromoform	19.0	1.00	ug/L	20.00		94.8	69-135			
Bromomethane	23.7	2.00	ug/L	20.00		119	14-193			
Carbon Disulfide	11.0	5.00	ug/L	20.00		55.1	54-150			
Carbon Tetrachloride	17.4	1.00	ug/L	20.00		86.8	67-138			
Chlorobenzene	20.5	1.00	ug/L	20.00		103	77-125			
Chloroethane	18.7	1.00	ug/L	20.00		93.5	27-170			
Chloroform	19.8	1.00	ug/L	20.00		98.8	73-136			
Chloromethane	24.6	1.00	ug/L	20.00		123	44-145			
cis-1,2-Dichloroethene	17.6	1.00	ug/L	20.00		88.2	77-137			
cis-1,3-Dichloropropene	18.4	1.00	ug/L	20.00		92.1	70-133			
Dibromochloromethane	19.9	1.00	ug/L	20.00		99.3	68-131			
Dibromomethane	19.1	1.00	ug/L	20.00		95.6	74-129			
Dichlorodifluoromethane	15.4	2.00	ug/L	20.00		77.2	41-145			
Ethylbenzene	19.7	1.00	ug/L	20.00		98.3	79-126			
Iodomethane	16.8	10.0	ug/L	20.00		83.8	52-150			
Methylene Chloride	18.9	1.00	ug/L	20.00		94.6	43-162			
Methyl tert-Butyl Ether	17.4	10.0	ug/L	20.00		87.2	63-134			
-Xylene	40.8	2.00	ug/L	40.00		102	82-132			
.. ıdexane	16.6	5.00	ug/L	20.00		83.0	10-216			
o-Xylene	20.8	1.00	ug/L	20.00		104	81-128			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS (1030113-BS2)				Prepared & Analyzed: 07/20/10						
Styrene	21.7	1.00	ug/L	20.00		108	81-129			
Tetrachloroethene	27.6	2.00	ug/L	20.00		138	43-152			
Toluene	19.7	1.00	ug/L	20.00		98.5	79-128			
trans-1,2-Dichloroethene	17.0	1.00	ug/L	20.00		84.9	60-144			
trans-1,3-Dichloropropene	19.4	1.00	ug/L	20.00		97.2	67-138			
Trichloroethene	20.0	2.00	ug/L	20.00		100	74-132			
Trichlorofluoromethane	22.5	2.00	ug/L	20.00		112	48-170			
Vinyl Chloride	19.7	1.00	ug/L	20.00		98.6	60-143			
Vinyl acetate	12.3	10.0	ug/L	20.00		61.4	16-196			
Surrogate: 4-Bromofluorobenzene	*58.0*		*ug/L*	*50.00*		*116*	*41-140*			
Surrogate: Dibromofluoromethane	*58.3*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*62.3*		*ug/L*	*50.00*		*125*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*55.2*		*ug/L*	*50.00*		*110*	*29-163*			
LCS Dup (1030113-BSD1)				Prepared & Analyzed: 07/18/10						
,1,2-Tetrachloroethane	22.2	1.00	ug/L	20.00		111	78-128	2.46	16	
,1,2-Tetrachloroethane	22.2	1.00	ug/L	20.00		111	78-128	2.46	16	
1,1,1-Trichloroethane	27.7	1.00	ug/L	20.00		138	70-135	5.04	20	L
1,1,1-Trichloroethane	27.7	1.00	ug/L	20.00		138	70-135	5.04	20	L, B
1,1,2,2-Tetrachloroethane	18.4	1.00	ug/L	20.00		92.0	68-135	1.92	19	
1,1,2,2-Tetrachloroethane	18.4	1.00	ug/L	20.00		92.0	68-135	1.92	19	
1,1,2-Trichloroethane	22.0	1.00	ug/L	20.00		110	74-131	1.38	16	
1,1,2-Trichloroethane	22.0	1.00	ug/L	20.00		110	74-131	1.38	16	
1,1-Dichloroethane	23.0	2.00	ug/L	20.00		115	72-134	2.51	19	
1,1-Dichloroethane	23.0	2.00	ug/L	20.00		115	72-134	2.51	19	
1,1-Dichloroethene	19.7	1.00	ug/L	20.00		98.7	62-143	2.41	20	
1,1-Dichloroethene	19.7	1.00	ug/L	20.00		98.7	62-143	2.41	20	
1,1-Dichloropropene	21.6	5.00	ug/L	20.00		108	82-128	2.30	18	
1,1-Dichloropropene	21.6	5.00	ug/L	20.00		108	82-128	2.30	18	
1,2-Dibromoethane	20.9	5.00	ug/L	20.00		105	67-132	4.45	13	
1,2-Dibromoethane	20.9	5.00	ug/L	20.00		105	67-132	4.45	13	
1,2-Dichloroethane	21.1	1.00	ug/L	20.00		106	72-131	2.40	16	
1,2-Dichloroethane	21.1	1.00	ug/L	20.00		106	72-131	2.40	16	
1,2-Dichloropropane	22.2	1.00	ug/L	20.00		111	75-128	0.813	19	
1,2-Dichloropropane	22.2	1.00	ug/L	20.00		111	75-128	0.813	19	
1,3-Dichloropropane	21.7	1.00	ug/L	20.00		109	73-130	2.42	13	
1,3-Dichloropropane	21.7	1.00	ug/L	20.00		109	73-130	2.42	13	
2,2-Dichloropropane	17.2	1.00	ug/L	20.00		85.8	45-173	1.59	25	
2,2-Dichloropropane	17.2	1.00	ug/L	20.00		85.8	45-173	1.59	25	
2-Butanone	76.4	10.0	ug/L	80.00		95.6	42-140	2.01	18	
2-Butanone	76.4	10.0	ug/L	80.00		95.6	42-140	2.01	18	
2-Chlorotoluene	23.1	1.00	ug/L	20.00		116	76-126	2.36	20	
-Chlorotoluene	23.1	1.00	ug/L	20.00		116	76-126	2.36	20	
exanone	87.1	10.0	ug/L	80.00		109	18-178	0.970	17	
2-Hexanone	87.1	10.0	ug/L	80.00		109	18-178	0.970	17	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS Dup (1030113-BSD1)				Prepared & Analyzed: 07/18/10						
4-Chlorotoluene	23.5	1.00	ug/L	20.00		118	77-132	3.59	22	
4-Chlorotoluene	23.5	1.00	ug/L	20.00		118	77-132	3.59	22	
4-Methyl-2-pentanone	90.1	10.0	ug/L	80.00		113	42-160	0.322	67	
4-Methyl-2-pentanone	90.1	10.0	ug/L	80.00		113	42-160	0.322	67	
Acetone	81.1	10.0	ug/L	80.00		101	30-173	1.70	24	
Acetone	81.1	10.0	ug/L	80.00		101	30-173	1.70	24	
Acetonitrile	22.7	40.0	ug/L	20.00		113	58-150	0.708	25	
Acetonitrile	22.7	40.0	ug/L	20.00		113	58-150	0.708	25	
Acrylonitrile	21.0	10.0	ug/L	20.00		105	64-153	0.0477	20	
Acrylonitrile	21.0	10.0	ug/L	20.00		105	64-153	0.0477	20	
Allyl chloride	24.3	1.00	ug/L	20.00		122	67-149	1.62	16	
Allyl chloride	24.3	1.00	ug/L	20.00		122	67-149	1.62	16	
Benzene	21.1	1.00	ug/L	20.00		106	77-126	2.59	19	
Benzene	21.1	1.00	ug/L	20.00		106	77-126	2.59	19	
Bromobenzene	22.6	1.00	ug/L	20.00		113	72-131	3.01	20	
nobenzene	22.6	1.00	ug/L	20.00		113	72-131	3.01	20	
omochloromethane	21.2	1.00	ug/L	20.00		106	71-135	1.85	16	
Bromochloromethane	21.2	1.00	ug/L	20.00		106	71-135	1.85	16	
Bromodichloromethane	22.5	1.00	ug/L	20.00		113	78-129	1.34	17	
Bromodichloromethane	22.5	1.00	ug/L	20.00		113	78-129	1.34	17	
Bromoform	20.5	1.00	ug/L	20.00		103	69-135	1.42	18	
Bromoform	20.5	1.00	ug/L	20.00		103	69-135	1.42	18	
Bromomethane	22.0	2.00	ug/L	20.00		110	14-193	9.08	28	
Bromomethane	22.0	2.00	ug/L	20.00		110	14-193	9.08	28	
Carbon Disulfide	13.2	5.00	ug/L	20.00		66.0	54-150	5.04	19	
Carbon Disulfide	13.2	5.00	ug/L	20.00		66.0	54-150	5.04	19	
Carbon Tetrachloride	20.4	1.00	ug/L	20.00		102	67-138	2.43	21	
Carbon Tetrachloride	20.4	1.00	ug/L	20.00		102	67-138	2.43	21	
Chlorobenzene	22.6	1.00	ug/L	20.00		113	77-125	3.29	19	
Chlorobenzene	22.6	1.00	ug/L	20.00		113	77-125	3.29	19	
Chloroethane	20.4	1.00	ug/L	20.00		102	27-170	5.53	64	
Chloroethane	20.4	1.00	ug/L	20.00		102	27-170	5.53	64	
Chloroform	22.7	1.00	ug/L	20.00		113	73-136	3.27	19	
Chloroform	22.7	1.00	ug/L	20.00		113	73-136	3.27	19	
Chloromethane	31.1	1.00	ug/L	20.00		155	44-145	2.04	26	L
Chloromethane	31.1	1.00	ug/L	20.00		155	44-145	2.04	26	L
cis-1,2-Dichloroethene	22.2	1.00	ug/L	20.00		111	77-137	3.43	17	
cis-1,2-Dichloroethene	22.2	1.00	ug/L	20.00		111	77-137	3.43	17	
cis-1,3-Dichloropropene	21.6	1.00	ug/L	20.00		108	70-133	3.24	19	
cis-1,3-Dichloropropene	21.6	1.00	ug/L	20.00		108	70-133	3.24	19	
Dibromochloromethane	21.9	1.00	ug/L	20.00		109	68-131	2.45	18	
Dibromochloromethane	21.9	1.00	ug/L	20.00		109	68-131	2.45	18	
omomethane	21.4	1.00	ug/L	20.00		107	74-129	2.36	16	
romomethane	21.4	1.00	ug/L	20.00		107	74-129	2.36	16	
Dichlorodifluoromethane	18.2	2.00	ug/L	20.00		91.0	41-145	3.07	15	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS Dup (1030113-BSD1)				Prepared & Analyzed: 07/18/10						
Dichlorodifluoromethane	18.2	2.00	ug/L	20.00		91.0	41-145	3.07	15	
Ethyl acetate	22.3	5.00	ug/L	22.46		99.5	28-162	2.08	43	
Ethylbenzene	22.2	1.00	ug/L	20.00		111	79-126	2.32	20	
Ethylbenzene	22.2	1.00	ug/L	20.00		111	79-126	2.32	20	
Iodomethane	18.4	10.0	ug/L	20.00		92.2	52-150	7.42	25	
Iodomethane	18.4	10.0	ug/L	20.00		92.2	52-150	7.42	25	
Methylene Chloride	21.8	1.00	ug/L	20.00		109	43-162	3.41	28	
Methylene Chloride	21.8	1.00	ug/L	20.00		109	43-162	3.41	28	
Methyl tert-Butyl Ether	21.8	10.0	ug/L	20.00		109	63-134	2.46	20	
Methyl tert-Butyl Ether	21.8	10.0	ug/L	20.00		109	63-134	2.46	20	
m,p-Xylene	46.4	2.00	ug/L	40.00		116	82-132	2.25	18	
m,p-Xylene	46.4	2.00	ug/L	40.00		116	82-132	2.25	18	
n-Butylbenzene	24.7	1.00	ug/L	20.00		123	80-135	1.22	18	
n-Hexane	24.2	5.00	ug/L	20.00		121	10-216	6.48	64	
n-Hexane	24.2	5.00	ug/L	20.00		121	10-216	6.48	64	
Xylene	23.7	1.00	ug/L	20.00		119	81-128	1.36	19	
Xylene	23.7	1.00	ug/L	20.00		119	81-128	1.36	19	
Styrene	23.9	1.00	ug/L	20.00		120	81-129	1.31	17	
Styrene	23.9	1.00	ug/L	20.00		120	81-129	1.31	17	
Tetrachloroethene	36.1	1.00	ug/L	20.00		181	43-152	2.18	29	L
Tetrachloroethene	36.1	2.00	ug/L	20.00		181	43-152	2.18	29	L
Toluene	22.7	1.00	ug/L	20.00		114	79-128	2.81	19	
Toluene	22.7	1.00	ug/L	20.00		114	79-128	2.81	19	
trans-1,2-Dichloroethene	20.6	1.00	ug/L	20.00		103	60-144	3.11	20	
trans-1,2-Dichloroethene	20.6	1.00	ug/L	20.00		103	60-144	3.11	20	
trans-1,3-Dichloropropene	22.0	1.00	ug/L	20.00		110	67-138	1.56	17	
trans-1,3-Dichloropropene	22.0	1.00	ug/L	20.00		110	67-138	1.56	17	
Trichloroethene	24.6	1.00	ug/L	20.00		123	74-132	1.64	20	
Trichloroethene	24.6	2.00	ug/L	20.00		123	74-132	1.64	20	
Trichlorofluoromethane	24.1	2.00	ug/L	20.00		120	48-170	2.35	50	
Trichlorofluoromethane	24.1	2.00	ug/L	20.00		120	48-170	2.35	50	
Vinyl Chloride	22.8	1.00	ug/L	20.00		114	60-143	4.86	19	
Vinyl Chloride	22.8	1.00	ug/L	20.00		114	60-143	4.86	19	
Vinyl acetate	7.93	10.0	ug/L	20.00		39.6	16-196	0.879	45	
Vinyl acetate	7.93	10.0	ug/L	20.00		39.6	16-196	0.879	45	
Surrogate: 4-Bromofluorobenzene	*67.1*		*ug/L*	*50.00*		*134*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*67.1*		*ug/L*	*50.00*		*134*	*41-140*			
Surrogate: Dibromofluoromethane	*63.9*		*ug/L*	*50.00*		*128*	*34-158*			
Surrogate: Dibromofluoromethane	*63.9*		*ug/L*	*50.00*		*128*	*34-158*			
Surrogate: Toluene-d8	*69.8*		*ug/L*	*50.00*		*140*	*47-147*			
Surrogate: Toluene-d8	*69.8*		*ug/L*	*50.00*		*140*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*59.9*		*ug/L*	*50.00*		*120*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*59.9*		*ug/L*	*50.00*		*120*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS Dup (1030113-BSD2)				Prepared: 07/20/10 Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	20.3	1.00	ug/L	20.00		101	78-128	2.34	16	
1,1,1-Trichloroethane	19.3	1.00	ug/L	20.00		96.4	70-135	0.312	20	B
1,1,2,2-Tetrachloroethane	17.4	1.00	ug/L	20.00		86.8	68-135	12.0	19	
1,1,2-Trichloroethane	19.3	1.00	ug/L	20.00		96.6	74-131	3.31	16	
1,1-Dichloroethane	18.8	2.00	ug/L	20.00		94.2	72-134	1.53	19	
1,1-Dichloroethene	17.2	1.00	ug/L	20.00		85.9	62-143	1.88	20	
1,1-Dichloropropene	17.8	5.00	ug/L	20.00		89.2	82-128	0.844	18	
1,2-Dibromoethane	17.9	5.00	ug/L	20.00		89.3	67-132	1.39	13	
1,2-Dichloroethane	17.8	1.00	ug/L	20.00		88.8	72-131	3.81	16	
1,2-Dichloropropane	18.6	1.00	ug/L	20.00		93.2	75-128	3.22	19	
1,3-Dichloropropane	18.6	1.00	ug/L	20.00		93.0	73-130	1.71	13	
2,2-Dichloropropane	15.5	1.00	ug/L	20.00		77.6	45-173	1.98	25	
2-Butanone	61.6	10.0	ug/L	80.00		77.0	42-140	0.566	18	
2-Chlorotoluene	20.7	1.00	ug/L	20.00		104	76-126	2.15	20	
2-Hexanone	70.8	10.0	ug/L	80.00		88.5	18-178	2.83	17	
ʻlulorotoluene	21.6	1.00	ug/L	20.00		108	77-132	1.97	22	
/ethyl-2-pentanone	75.0	10.0	ug/L	80.00		93.8	42-160	4.22	67	
Acetone	65.1	10.0	ug/L	80.00		81.3	30-173	0.292	24	
Acetonitrile	17.8	40.0	ug/L	20.00		89.2	58-150	2.16	25	
Acrylonitrile	16.1	10.0	ug/L	20.00		80.6	64-153	4.37	20	
Allyl chloride	14.8	1.00	ug/L	20.00		74.2	67-149	3.90	16	
Benzene	18.2	1.00	ug/L	20.00		91.1	77-126	1.53	19	
Bromobenzene	20.9	1.00	ug/L	20.00		104	72-131	2.46	20	
Bromochloromethane	18.9	1.00	ug/L	20.00		94.3	71-135	3.75	16	
Bromodichloromethane	18.7	1.00	ug/L	20.00		93.5	78-129	5.31	17	
Bromoform	18.5	1.00	ug/L	20.00		92.6	69-135	2.40	18	
Bromomethane	22.8	2.00	ug/L	20.00		114	14-193	4.17	28	
Carbon Disulfide	11.3	5.00	ug/L	20.00		56.7	54-150	2.86	19	
Carbon Tetrachloride	17.8	1.00	ug/L	20.00		89.0	67-138	2.45	21	
Chlorobenzene	20.1	1.00	ug/L	20.00		100	77-125	2.22	19	
Chloroethane	18.2	1.00	ug/L	20.00		91.2	27-170	2.44	64	
Chloroform	19.3	1.00	ug/L	20.00		96.6	73-136	2.15	19	
Chloromethane	23.9	1.00	ug/L	20.00		120	44-145	2.76	26	
cis-1,2-Dichloroethene	17.5	1.00	ug/L	20.00		87.6	77-137	0.739	17	
cis-1,3-Dichloropropene	18.1	1.00	ug/L	20.00		90.3	70-133	1.97	19	
Dibromochloromethane	19.3	1.00	ug/L	20.00		96.7	68-131	2.65	18	
Dibromomethane	18.7	1.00	ug/L	20.00		93.3	74-129	2.49	16	
Dichlorodifluoromethane	16.4	2.00	ug/L	20.00		82.2	41-145	6.27	15	
Ethylbenzene	19.5	1.00	ug/L	20.00		97.4	79-126	0.868	20	
Iodomethane	16.6	10.0	ug/L	20.00		82.9	52-150	1.02	25	
Methylene Chloride	17.8	1.00	ug/L	20.00		89.0	43-162	6.10	28	
Methyl tert-Butyl Ether	17.0	10.0	ug/L	20.00		84.9	63-134	2.67	20	
-Xylene	40.3	2.00	ug/L	40.00		101	82-132	1.21	18	
exane	18.2	5.00	ug/L	20.00		91.2	10-216	9.47	64	
o-Xylene	20.3	1.00	ug/L	20.00		102	81-128	2.28	19	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030113 - VOC PREP										
LCS Dup (1030113-BSD2)				Prepared: 07/20/10 Analyzed: 07/21/10						
Styrene	20.9	1.00	ug/L	20.00		105	81-129	3.52	17	
Tetrachloroethene	32.8	2.00	ug/L	20.00		164	43-152	17.2	29	L
Toluene	19.2	1.00	ug/L	20.00		96.2	79-128	2.36	19	
trans-1,2-Dichloroethene	16.9	1.00	ug/L	20.00		84.6	60-144	0.413	20	
trans-1,3-Dichloropropene	18.9	1.00	ug/L	20.00		94.6	67-138	2.76	17	
Trichloroethene	21.3	2.00	ug/L	20.00		107	74-132	6.19	20	
Trichlorofluoromethane	22.9	2.00	ug/L	20.00		114	48-170	1.63	50	
Vinyl Chloride	19.6	1.00	ug/L	20.00		98.2	60-143	0.356	19	
Vinyl acetate	7.29	10.0	ug/L	20.00		36.4	16-196	51.0	45	R
Surrogate: 4-Bromofluorobenzene	*58.2*		*ug/L*	*50.00*		*116*	*41-140*			
Surrogate: Dibromofluoromethane	*58.4*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*62.0*		*ug/L*	*50.00*		*124*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*55.3*		*ug/L*	*50.00*		*111*	*29-163*			
Batch 1030249 - VOC PREP										
ank (1030249-BLK1)				Prepared & Analyzed: 07/20/10						
,1,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,1-Trichloroethane	BDL	1.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,2-Trichloroethane	BDL	1.00	ug/L							
1,1-Dichloroethane	BDL	2.00	ug/L							
1,1-Dichloroethene	BDL	1.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	1.00	ug/L							
1,2-Dichloropropane	BDL	1.00	ug/L							
1,3-Dichloropropane	BDL	1.00	ug/L							
2,2-Dichloropropane	BDL	1.00	ug/L							
2-Butanone	BDL	10.0	ug/L							
2-Chlorotoluene	BDL	1.00	ug/L							
2-Hexanone	BDL	10.0	ug/L							
4-Chlorotoluene	BDL	1.00	ug/L							
4-Methyl-2-pentanone	BDL	10.0	ug/L							
Acetone	BDL	10.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	10.0	ug/L							
Allyl chloride	BDL	1.00	ug/L							
Benzene	BDL	1.00	ug/L							
Bromobenzene	BDL	1.00	ug/L							
Bromochloromethane	BDL	1.00	ug/L							
Bromodichloromethane	BDL	1.00	ug/L							
`moform	BDL	1.00	ug/L							
`momethane	BDL	2.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
Blank (1030249-BLK1)				Prepared & Analyzed: 07/20/10						
Carbon Disulfide	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	1.00	ug/L							
Chlorobenzene	BDL	1.00	ug/L							
Chloroethane	BDL	1.00	ug/L							
Chloroform	BDL	1.00	ug/L							
Chloromethane	BDL	1.00	ug/L							
cis-1,2-Dichloroethene	BDL	1.00	ug/L							
cis-1,3-Dichloropropene	BDL	1.00	ug/L							
Dibromochloromethane	BDL	1.00	ug/L							
Dibromomethane	BDL	1.00	ug/L							
Dichlorodifluoromethane	BDL	2.00	ug/L							
Ethyl acetate	BDL	5.00	ug/L							
Ethylbenzene	BDL	1.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	1.00	ug/L							
thyl tert-Butyl Ether	BDL	10.0	ug/L							
-Xylene	BDL	2.00	ug/L							
n-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	1.00	ug/L							
Styrene	BDL	1.00	ug/L							
Tetrachloroethene	BDL	1.00	ug/L							
Toluene	BDL	1.00	ug/L							
trans-1,2-Dichloroethene	BDL	1.00	ug/L							
trans-1,3-Dichloropropene	BDL	1.00	ug/L							
Trichloroethene	BDL	1.00	ug/L							
Trichlorofluoromethane	BDL	2.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.2*		*ug/L*	*50.00*		*112*	*41-140*			
Surrogate: Dibromofluoromethane	*58.3*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*62.1*		*ug/L*	*50.00*		*124*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*57.0*		*ug/L*	*50.00*		*114*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
LCS (1030249-BS1)				Prepared & Analyzed: 07/20/10						
1,1,1,2-Tetrachloroethane	20.4	1.00	ug/L	20.00		102	78-128			
1,1,1-Trichloroethane	19.2	1.00	ug/L	20.00		96.2	70-135			
1,1,2,2-Tetrachloroethane	19.6	1.00	ug/L	20.00		98.2	68-135			
1,1,2-Trichloroethane	19.6	1.00	ug/L	20.00		98.1	74-131			
1,1-Dichloroethane	18.9	2.00	ug/L	20.00		94.4	72-134			
1,1-Dichloroethene	16.5	1.00	ug/L	20.00		82.7	62-143			
1,1-Dichloropropene	18.3	5.00	ug/L	20.00		91.4	82-128			
1,2-Dibromoethane	18.3	5.00	ug/L	20.00		91.6	67-132			
1,2-Dichloroethane	18.1	1.00	ug/L	20.00		90.3	72-131			
1,2-Dichloropropane	19.1	1.00	ug/L	20.00		95.4	75-128			
1,3-Dichloropropane	18.8	1.00	ug/L	20.00		93.8	73-130			
2,2-Dichloropropane	19.9	1.00	ug/L	20.00		99.4	45-173			
2-Butanone	62.7	10.0	ug/L	80.00		78.3	42-140			
2-Chlorotoluene	21.0	1.00	ug/L	20.00		105	76-126			
2-Hexanone	72.4	10.0	ug/L	80.00		90.5	18-178			
Chlorotoluene	21.6	1.00	ug/L	20.00		108	77-132			
Methyl-2-pentanone	77.4	10.0	ug/L	80.00		96.8	42-160			
Acetone	63.8	10.0	ug/L	80.00		79.8	30-173			
Acetonitrile	18.5	40.0	ug/L	20.00		92.3	58-150			
Acrylonitrile	17.7	10.0	ug/L	20.00		88.5	64-153			
Allyl chloride	21.4	1.00	ug/L	20.00		107	67-149			
Benzene	18.5	1.00	ug/L	20.00		92.5	77-126			
Bromobenzene	20.8	1.00	ug/L	20.00		104	72-131			
Bromochloromethane	18.8	1.00	ug/L	20.00		93.8	71-135			
Bromodichloromethane	19.2	1.00	ug/L	20.00		96.0	78-129			
Bromoform	17.7	1.00	ug/L	20.00		88.6	69-135			
Bromomethane	23.6	2.00	ug/L	20.00		118	14-193			
Carbon Disulfide	10.6	5.00	ug/L	20.00		52.8	54-150			A-01a
Carbon Tetrachloride	17.7	1.00	ug/L	20.00		88.4	67-138			
Chlorobenzene	20.3	1.00	ug/L	20.00		101	77-125			
Chloroethane	19.5	1.00	ug/L	20.00		97.5	27-170			
Chloroform	18.9	1.00	ug/L	20.00		94.6	73-136			
Chloromethane	25.8	1.00	ug/L	20.00		129	44-145			
cis-1,2-Dichloroethene	17.7	1.00	ug/L	20.00		88.6	77-137			
cis-1,3-Dichloropropene	18.8	1.00	ug/L	20.00		94.2	70-133			
Dibromochloromethane	19.3	1.00	ug/L	20.00		96.4	68-131			
Dibromomethane	18.8	1.00	ug/L	20.00		94.2	74-129			
Dichlorodifluoromethane	18.6	2.00	ug/L	20.00		93.0	41-145			
Ethyl acetate	18.7	5.00	ug/L	22.46		83.1	28-162			
Ethylbenzene	19.8	1.00	ug/L	20.00		99.2	79-126			
Iodomethane	15.8	10.0	ug/L	20.00		79.1	52-150			
Methylene Chloride	18.7	1.00	ug/L	20.00		93.7	43-162			
Methyl tert-Butyl Ether	17.4	10.0	ug/L	20.00		87.2	63-134			
-Xylene	41.7	2.00	ug/L	40.00		104	82-132			
n-Hexane	20.7	5.00	ug/L	20.00		103	10-216			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
LCS (1030249-BS1)				Prepared & Analyzed: 07/20/10						
o-Xylene	21.0	1.00	ug/L	20.00		105	81-128			
Styrene	21.2	1.00	ug/L	20.00		106	81-129			
Tetrachloroethene	17.6	1.00	ug/L	20.00		87.9	43-152			
Toluene	19.5	1.00	ug/L	20.00		97.6	79-128			
trans-1,2-Dichloroethene	17.0	1.00	ug/L	20.00		85.0	60-144			
trans-1,3-Dichloropropene	19.8	1.00	ug/L	20.00		99.0	67-138			
Trichloroethene	19.2	1.00	ug/L	20.00		96.2	74-132			
Trichlorofluoromethane	23.7	2.00	ug/L	20.00		119	48-170			
Vinyl Chloride	20.9	1.00	ug/L	20.00		105	60-143			
Vinyl acetate	15.5	10.0	ug/L	20.00		77.4	16-196			
Surrogate: 4-Bromofluorobenzene	*59.5*		*ug/L*	*50.00*		*119*	*41-140*			
Surrogate: Dibromofluoromethane	*58.4*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*62.9*		*ug/L*	*50.00*		*126*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*55.2*		*ug/L*	*50.00*		*110*	*29-163*			
LCS Dup (1030249-BSD1)				Prepared & Analyzed: 07/20/10						
,2-Tetrachloroethane	21.5	1.00	ug/L	20.00		107	78-128	4.82	16	
,1,1-Trichloroethane	20.7	1.00	ug/L	20.00		103	70-135	7.07	20	
1,1,2,2-Tetrachloroethane	20.3	1.00	ug/L	20.00		101	68-135	3.31	19	
1,1,2-Trichloroethane	20.5	1.00	ug/L	20.00		102	74-131	4.39	16	
1,1-Dichloroethane	20.8	2.00	ug/L	20.00		104	72-134	9.58	19	
1,1-Dichloroethene	17.9	1.00	ug/L	20.00		89.4	62-143	7.73	20	
1,1-Dichloropropene	19.3	5.00	ug/L	20.00		96.4	82-128	5.43	18	
1,2-Dibromoethane	19.0	5.00	ug/L	20.00		95.2	67-132	3.86	13	
1,2-Dichloroethane	19.1	1.00	ug/L	20.00		95.4	72-131	5.49	16	
1,2-Dichloropropane	20.5	1.00	ug/L	20.00		102	75-128	7.18	19	
1,3-Dichloropropane	19.9	1.00	ug/L	20.00		99.6	73-130	6.05	13	
2,2-Dichloropropane	21.6	1.00	ug/L	20.00		108	45-173	8.11	25	
2-Butanone	66.3	10.0	ug/L	80.00		82.8	42-140	5.60	18	
2-Chlorotoluene	22.2	1.00	ug/L	20.00		111	76-126	5.51	20	
2-Hexanone	75.8	10.0	ug/L	80.00		94.7	18-178	4.55	17	
4-Chlorotoluene	23.2	1.00	ug/L	20.00		116	77-132	7.33	22	
4-Methyl-2-pentanone	79.4	10.0	ug/L	80.00		99.2	42-160	2.53	67	
Acetone	68.5	10.0	ug/L	80.00		85.6	30-173	7.00	24	
Acetonitrile	18.7	40.0	ug/L	20.00		93.7	58-150	1.51	25	
Acrylonitrile	18.3	10.0	ug/L	20.00		91.4	64-153	3.22	20	
Allyl chloride	23.3	1.00	ug/L	20.00		117	67-149	8.72	16	
Benzene	19.1	1.00	ug/L	20.00		95.6	77-126	3.24	19	
Bromobenzene	22.1	1.00	ug/L	20.00		111	72-131	5.96	20	
Bromochloromethane	20.5	1.00	ug/L	20.00		103	71-135	9.11	16	
Bromodichloromethane	20.8	1.00	ug/L	20.00		104	78-129	7.76	17	
Bromoform	18.2	1.00	ug/L	20.00		91.0	69-135	2.62	18	
Bromomethane	26.1	2.00	ug/L	20.00		131	14-193	10.3	28	
on Disulfide	11.9	5.00	ug/L	20.00		59.4	54-150	11.8	19	
bon Tetrachloride	18.9	1.00	ug/L	20.00		94.4	67-138	6.51	21	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
LCS Dup (1030249-BSD1)				Prepared & Analyzed: 07/20/10						
Chlorobenzene	21.6	1.00	ug/L	20.00		108	77-125	6.49	19	
Chloroethane	20.7	1.00	ug/L	20.00		103	27-170	5.78	64	
Chloroform	20.9	1.00	ug/L	20.00		105	73-136	10.1	19	
Chloromethane	27.0	1.00	ug/L	20.00		135	44-145	4.28	26	
cis-1,2-Dichloroethene	19.7	1.00	ug/L	20.00		98.4	77-137	10.4	17	
cis-1,3-Dichloropropene	20.3	1.00	ug/L	20.00		101	70-133	7.36	19	
Dibromochloromethane	20.0	1.00	ug/L	20.00		100	68-131	3.67	18	
Dibromomethane	19.8	1.00	ug/L	20.00		99.0	74-129	4.97	16	
Dichlorodifluoromethane	19.0	2.00	ug/L	20.00		94.9	41-145	2.08	15	
Ethyl acetate	19.3	5.00	ug/L	22.46		85.9	28-162	3.27	43	
Ethylbenzene	21.1	1.00	ug/L	20.00		105	79-126	6.11	20	
Iodomethane	18.3	10.0	ug/L	20.00		91.6	52-150	14.7	25	
Methylene Chloride	20.7	1.00	ug/L	20.00		104	43-162	10.1	28	
Methyl tert-Butyl Ether	18.7	10.0	ug/L	20.00		93.7	63-134	7.13	20	
m,p-Xylene	43.8	2.00	ug/L	40.00		110	82-132	4.91	18	
Hexane	20.1	5.00	ug/L	20.00		101	10-216	2.70	64	
Xylene	22.2	1.00	ug/L	20.00		111	81-128	5.69	19	
Styrene	22.9	1.00	ug/L	20.00		115	81-129	7.61	17	
Tetrachloroethene	19.0	1.00	ug/L	20.00		95.2	43-152	7.92	29	
Toluene	21.0	1.00	ug/L	20.00		105	79-128	7.26	19	
trans-1,2-Dichloroethene	18.7	1.00	ug/L	20.00		93.6	60-144	9.63	20	
trans-1,3-Dichloropropene	20.8	1.00	ug/L	20.00		104	67-138	4.68	17	
Trichloroethene	20.8	1.00	ug/L	20.00		104	74-132	7.88	20	
Trichlorofluoromethane	24.3	2.00	ug/L	20.00		122	48-170	2.46	50	
Vinyl Chloride	22.2	1.00	ug/L	20.00		111	60-143	5.76	19	
Vinyl acetate	16.4	10.0	ug/L	20.00		81.8	16-196	5.53	45	
Surrogate: 4-Bromofluorobenzene	*59.2*		*ug/L*	*50.00*		*118*	*41-140*			
Surrogate: Dibromofluoromethane	*59.8*		*ug/L*	*50.00*		*120*	*34-158*			
Surrogate: Toluene-d8	*63.8*		*ug/L*	*50.00*		*128*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*57.0*		*ug/L*	*50.00*		*114*	*29-163*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030039 - VOC PREP										
Blank (1030039-BLK1)				Prepared & Analyzed: 07/16/10						
1,1,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
4-Chlorotoluene	BDL	0.00500	mg/kg wet							
4-Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
Bromoform	BDL	0.00500	mg/kg wet							
Bromomethane	BDL	0.00500	mg/kg wet							
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
Methyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
m,p-Xylene	BDL	0.0100	mg/kg wet							
n-Hexane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030039 - VOC PREP										
Blank (1030039-BLK1)				Prepared & Analyzed: 07/16/10						
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*41.1*		*ug/L*	*50.00*		*82.2*	*41-140*			
Surrogate: Dibromofluoromethane	*41.8*		*ug/L*	*50.00*		*83.6*	*33-129*			
Surrogate: Toluene-d8	*42.1*		*ug/L*	*50.00*		*84.3*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.0*		*ug/L*	*50.00*		*80.0*	*31-123*			
LCS (1030039-BS1)				Prepared & Analyzed: 07/16/10						
1,1,2-Tetrachloroethane	0.0211	0.00500	mg/kg wet	0.02000		105	69-142			
1,1,1-Trichloroethane	0.0206	0.00500	mg/kg wet	0.02000		103	58-127			
1,1,2,2-Tetrachloroethane	0.0232	0.00500	mg/kg wet	0.02000		116	74-141			
1,1,2-Trichloroethane	0.0219	0.00500	mg/kg wet	0.02000		110	73-140			
1,1-Dichloroethane	0.0199	0.00500	mg/kg wet	0.02000		99.5	60-130			
1,1-Dichloroethene	0.0188	0.00500	mg/kg wet	0.02000		93.8	62-142			
1,1-Dichloropropene	0.0191	0.00500	mg/kg wet	0.02000		95.7	63-142			
1,2-Dibromoethane	0.0212	0.00500	mg/kg wet	0.02000		106	72-140			
1,2-Dichloroethane	0.0214	0.00500	mg/kg wet	0.02000		107	70-142			
1,2-Dichloropropane	0.0211	0.00500	mg/kg wet	0.02000		105	66-139			
1,3-Dichloropropane	0.0215	0.00500	mg/kg wet	0.02000		108	75-139			
2,2-Dichloropropane	0.0198	0.00500	mg/kg wet	0.02000		99.0	10-180			
2-Butanone	0.0701	0.0200	mg/kg wet	0.08000		87.7	44-120			
2-Chlorotoluene	0.0217	0.00500	mg/kg wet	0.02000		109	69-137			
2-Hexanone	0.0895	0.0200	mg/kg wet	0.08000		112	10-172			
4-Chlorotoluene	0.0221	0.00500	mg/kg wet	0.02000		110	71-140			
4-Methyl-2-pentanone	0.0877	0.0200	mg/kg wet	0.08000		110	10-185			
Acetone	0.0766	0.0500	mg/kg wet	0.08000		95.7	10-229			
Acetonitrile	0.0207	0.0400	mg/kg wet	0.02000		103	35-169			
Acrylonitrile	0.0199	0.0200	mg/kg wet	0.02000		99.4	64-150			
Allyl chloride	0.0198	0.0100	mg/kg wet	0.02000		98.8	50-149			
Benzene	0.0199	0.00500	mg/kg wet	0.02000		99.7	64-138			
Bromobenzene	0.0213	0.00500	mg/kg wet	0.02000		106	73-140			
Bromochloromethane	0.0191	0.00500	mg/kg wet	0.02000		95.5	72-132			
Bromodichloromethane	0.0219	0.00500	mg/kg wet	0.02000		110	72-138			
Bromoform	0.0221	0.00500	mg/kg wet	0.02000		110	70-144			
Bromomethane	0.0280	0.00500	mg/kg wet	0.02000		140	10-199			
rbon Disulfide	0.0136	0.0200	mg/kg wet	0.02000		68.0	38-148			
Carbon Tetrachloride	0.0197	0.00500	mg/kg wet	0.02000		98.6	49-148			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030039 - VOC PREP										
LCS (1030039-BS1)				Prepared & Analyzed: 07/16/10						
Chlorobenzene	0.0202	0.00500	mg/kg wet	0.02000		101	70-135			
Chloroethane	0.0188	0.00500	mg/kg wet	0.02000		93.8	17-186			
Chloroform	0.0197	0.00500	mg/kg wet	0.02000		98.4	64-134			
Chloromethane	0.0202	0.00500	mg/kg wet	0.02000		101	47-143			
cis-1,2-Dichloroethene	0.0200	0.00500	mg/kg wet	0.02000		100	66-138			
cis-1,3-Dichloropropene	0.0210	0.00500	mg/kg wet	0.02000		105	66-141			
Dibromochloromethane	0.0226	0.00500	mg/kg wet	0.02000		113	70-139			
Dibromomethane	0.0222	0.00500	mg/kg wet	0.02000		111	76-135			
Dichlorodifluoromethane	0.0140	0.00500	mg/kg wet	0.02000		69.8	20-181			
Ethylbenzene	0.0210	0.00500	mg/kg wet	0.02000		105	71-134			
Iodomethane	0.0142	0.0100	mg/kg wet	0.02000		70.8	13-162			
Methylene Chloride	0.0188	0.00500	mg/kg wet	0.02000		94.0	10-195			
Methyl tert-Butyl Ether	0.0227	0.0100	mg/kg wet	0.02000		113	54-153			
m,p-Xylene	0.0432	0.0100	mg/kg wet	0.04000		108	70-138			
n-Hexane	0.0182	0.00500	mg/kg wet	0.02000		91.0	10-185			
Xylene	0.0210	0.00500	mg/kg wet	0.02000		105	72-139			
Styrene	0.0215	0.00500	mg/kg wet	0.02000		108	71-142			
Tetrachloroethene	0.0195	0.00500	mg/kg wet	0.02000		97.4	41-161			
Toluene	0.0203	0.00500	mg/kg wet	0.02000		102	70-136			
trans-1,2-Dichloroethene	0.0180	0.00500	mg/kg wet	0.02000		89.8	36-159			
trans-1,3-Dichloropropene	0.0219	0.00500	mg/kg wet	0.02000		110	64-142			
Trichloroethene	0.0187	0.00500	mg/kg wet	0.02000		93.6	65-136			
Trichlorofluoromethane	0.0160	0.00500	mg/kg wet	0.02000		79.8	41-163			
Vinyl Chloride	0.0184	0.00500	mg/kg wet	0.02000		92.0	45-149			
Vinyl acetate	0.0185	0.0100	mg/kg wet	0.02000		92.6	10-208			
Surrogate: 4-Bromofluorobenzene	*42.4*		*ug/L*	*50.00*		*84.8*	*41-140*			
Surrogate: Dibromofluoromethane	*39.5*		*ug/L*	*50.00*		*79.1*	*33-129*			
Surrogate: Toluene-d8	*41.1*		*ug/L*	*50.00*		*82.2*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.2*		*ug/L*	*50.00*		*78.4*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030039 - VOC PREP										
LCS Dup (1030039-BSD1)				Prepared & Analyzed: 07/16/10						
1,1,1,2-Tetrachloroethane	0.0222	0.00500	mg/kg wet	0.02000		111	69-142	5.00	23	
1,1,1-Trichloroethane	0.0209	0.00500	mg/kg wet	0.02000		104	58-127	1.30	20	
1,1,2,2-Tetrachloroethane	0.0235	0.00500	mg/kg wet	0.02000		117	74-141	1.07	20	
1,1,2-Trichloroethane	0.0228	0.00500	mg/kg wet	0.02000		114	73-140	3.89	15	
1,1-Dichloroethane	0.0205	0.00500	mg/kg wet	0.02000		102	60-130	2.92	20	
1,1-Dichloroethene	0.0193	0.00500	mg/kg wet	0.02000		96.6	62-142	2.89	20	
1,1-Dichloropropene	0.0198	0.00500	mg/kg wet	0.02000		98.8	63-142	3.19	24	
1,2-Dibromoethane	0.0216	0.00500	mg/kg wet	0.02000		108	72-140	1.73	20	
1,2-Dichloroethane	0.0214	0.00500	mg/kg wet	0.02000		107	70-142	0.234	18	
1,2-Dichloropropane	0.0216	0.00500	mg/kg wet	0.02000		108	66-139	2.48	22	
1,3-Dichloropropane	0.0223	0.00500	mg/kg wet	0.02000		111	75-139	3.42	17	
2,2-Dichloropropane	0.0201	0.00500	mg/kg wet	0.02000		101	10-180	1.55	40	
2-Butanone	0.0725	0.0200	mg/kg wet	0.08000		90.6	44-120	3.31	29	
2-Chlorotoluene	0.0224	0.00500	mg/kg wet	0.02000		112	69-137	3.17	30	
2-Hexanone	0.0931	0.0200	mg/kg wet	0.08000		116	10-172	3.96	40	
Chlorotoluene	0.0231	0.00500	mg/kg wet	0.02000		115	71-140	4.25	30	
Methyl-2-pentanone	0.0916	0.0200	mg/kg wet	0.08000		114	10-185	4.32	100	
Acetone	0.0766	0.0500	mg/kg wet	0.08000		95.7	10-229	0.0131	40	
Acetonitrile	0.0217	0.0400	mg/kg wet	0.02000		108	35-169	4.72	69	
Acrylonitrile	0.0209	0.0200	mg/kg wet	0.02000		105	64-150	5.10	34	
Allyl chloride	0.0194	0.0100	mg/kg wet	0.02000		97.1	50-149	1.74	35	
Benzene	0.0205	0.00500	mg/kg wet	0.02000		103	64-138	2.87	25	
Bromobenzene	0.0220	0.00500	mg/kg wet	0.02000		110	73-140	3.37	30	
Bromochloromethane	0.0194	0.00500	mg/kg wet	0.02000		97.2	72-132	1.82	25	
Bromodichloromethane	0.0228	0.00500	mg/kg wet	0.02000		114	72-138	3.98	25	
Bromoform	0.0227	0.00500	mg/kg wet	0.02000		114	70-144	3.04	30	
Bromomethane	0.0293	0.00500	mg/kg wet	0.02000		146	10-199	4.50	40	
Carbon Disulfide	0.0142	0.0200	mg/kg wet	0.02000		70.8	38-148	4.03	36	
Carbon Tetrachloride	0.0198	0.00500	mg/kg wet	0.02000		99.3	49-148	0.708	34	
Chlorobenzene	0.0209	0.00500	mg/kg wet	0.02000		104	70-135	3.41	21	
Chloroethane	0.0196	0.00500	mg/kg wet	0.02000		97.9	17-186	4.28	99	
Chloroform	0.0203	0.00500	mg/kg wet	0.02000		101	64-134	3.05	28	
Chloromethane	0.0200	0.00500	mg/kg wet	0.02000		100	47-143	0.746	25	
cis-1,2-Dichloroethene	0.0204	0.00500	mg/kg wet	0.02000		102	66-138	2.03	25	
cis-1,3-Dichloropropene	0.0218	0.00500	mg/kg wet	0.02000		109	66-141	3.69	25	
Dibromochloromethane	0.0225	0.00500	mg/kg wet	0.02000		112	70-139	0.355	25	
Dibromomethane	0.0220	0.00500	mg/kg wet	0.02000		110	76-135	0.679	23	
Dichlorodifluoromethane	0.0141	0.00500	mg/kg wet	0.02000		70.3	20-181	0.785	34	
Ethylbenzene	0.0215	0.00500	mg/kg wet	0.02000		107	71-134	2.36	31	
Iodomethane	0.0157	0.0100	mg/kg wet	0.02000		78.6	13-162	10.4	31	
Methylene Chloride	0.0193	0.00500	mg/kg wet	0.02000		96.4	10-195	2.52	51	
Methyl tert-Butyl Ether	0.0229	0.0100	mg/kg wet	0.02000		114	54-153	0.966	35	
m-Xylene	0.0440	0.0100	mg/kg wet	0.04000		110	70-138	2.02	31	
Hexane	0.0193	0.00500	mg/kg wet	0.02000		96.6	10-185	6.03	60	
o-Xylene	0.0215	0.00500	mg/kg wet	0.02000		108	72-139	2.30	23	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030039 - VOC PREP										
LCS Dup (1030039-BSD1)				Prepared & Analyzed: 07/16/10						
Styrene	0.0222	0.00500	mg/kg wet	0.02000		111	71-142	3.29	22	
Tetrachloroethene	0.0198	0.00500	mg/kg wet	0.02000		98.8	41-161	1.33	40	
Toluene	0.0211	0.00500	mg/kg wet	0.02000		105	70-136	3.67	22	
trans-1,2-Dichloroethene	0.0184	0.00500	mg/kg wet	0.02000		91.9	36-159	2.37	24	
trans-1,3-Dichloropropene	0.0227	0.00500	mg/kg wet	0.02000		113	64-142	3.46	20	
Trichloroethene	0.0196	0.00500	mg/kg wet	0.02000		98.2	65-136	4.80	23	
Trichlorofluoromethane	0.0169	0.00500	mg/kg wet	0.02000		84.7	41-163	5.96	26	
Vinyl Chloride	0.0198	0.00500	mg/kg wet	0.02000		99.0	45-149	7.23	27	
Vinyl acetate	0.0189	0.0100	mg/kg wet	0.02000		94.4	10-208	1.87	77	
Surrogate: 4-Bromofluorobenzene	*42.2*		*ug/L*	*50.00*		*84.5*	*41-140*			
Surrogate: Dibromofluoromethane	*40.0*		*ug/L*	*50.00*		*79.9*	*33-129*			
Surrogate: Toluene-d8	*41.3*		*ug/L*	*50.00*		*82.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.3*		*ug/L*	*50.00*		*78.6*	*31-123*			
Batch 1030104 - VOC PREP										
nk (1030104-BLK1)				Prepared: 07/16/10 Analyzed: 07/17/10						
.,1,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
4-Chlorotoluene	BDL	0.00500	mg/kg wet							
4-Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
noform	BDL	0.00500	mg/kg wet							
_.omomethane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030104 - VOC PREP										
Blank (1030104-BLK1)				Prepared: 07/16/10 Analyzed: 07/17/10						
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
Methyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
-Xylene	BDL	0.0100	mg/kg wet							
.Hexane	BDL	0.00500	mg/kg wet							
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*41.8*		*ug/L*	*50.00*		*83.6*	*41-140*			
Surrogate: Dibromofluoromethane	*41.1*		*ug/L*	*50.00*		*82.3*	*33-129*			
Surrogate: Toluene-d8	*42.4*		*ug/L*	*50.00*		*84.9*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.6*		*ug/L*	*50.00*		*79.1*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030104 - VOC PREP										
LCS (1030104-BS1)				Prepared: 07/16/10 Analyzed: 07/17/10						
1,1,1,2-Tetrachloroethane	0.0200	0.00500	mg/kg wet	0.02000		100	69-142			
1,1,1-Trichloroethane	0.0195	0.00500	mg/kg wet	0.02000		97.6	58-127			
1,1,2,2-Tetrachloroethane	0.0228	0.00500	mg/kg wet	0.02000		114	74-141			
1,1,2-Trichloroethane	0.0204	0.00500	mg/kg wet	0.02000		102	73-140			
1,1-Dichloroethane	0.0187	0.00500	mg/kg wet	0.02000		93.3	60-130			
1,1-Dichloroethene	0.0179	0.00500	mg/kg wet	0.02000		89.5	62-142			
1,1-Dichloropropene	0.0180	0.00500	mg/kg wet	0.02000		89.8	63-142			
1,2-Dibromoethane	0.0196	0.00500	mg/kg wet	0.02000		97.9	72-140			
1,2-Dichloroethane	0.0195	0.00500	mg/kg wet	0.02000		97.3	70-142			
1,2-Dichloropropane	0.0196	0.00500	mg/kg wet	0.02000		98.2	66-139			
1,3-Dichloropropane	0.0204	0.00500	mg/kg wet	0.02000		102	75-139			
2,2-Dichloropropane	0.0170	0.00500	mg/kg wet	0.02000		85.0	10-180			
2-Butanone	0.0669	0.0200	mg/kg wet	0.08000		83.6	44-120			
2-Chlorotoluene	0.0205	0.00500	mg/kg wet	0.02000		103	69-137			
2-Hexanone	0.0895	0.0200	mg/kg wet	0.08000		112	10-172			
hlorotoluene	0.0206	0.00500	mg/kg wet	0.02000		103	71-140			
Methyl-2-pentanone	0.0851	0.0200	mg/kg wet	0.08000		106	10-185			
Acetone	0.0702	0.0500	mg/kg wet	0.08000		87.8	10-229			
Acetonitrile	0.0174	0.0400	mg/kg wet	0.02000		87.0	35-169			
Acrylonitrile	0.0194	0.0200	mg/kg wet	0.02000		96.9	64-150			
Allyl chloride	0.0180	0.0100	mg/kg wet	0.02000		90.1	50-149			
Benzene	0.0188	0.00500	mg/kg wet	0.02000		94.2	64-138			
Bromobenzene	0.0202	0.00500	mg/kg wet	0.02000		101	73-140			
Bromochloromethane	0.0176	0.00500	mg/kg wet	0.02000		88.1	72-132			
Bromodichloromethane	0.0208	0.00500	mg/kg wet	0.02000		104	72-138			
Bromoform	0.0208	0.00500	mg/kg wet	0.02000		104	70-144			
Bromomethane	0.00983	0.00500	mg/kg wet	0.02000		49.2	10-199			
Carbon Disulfide	0.0130	0.0200	mg/kg wet	0.02000		64.8	38-148			
Carbon Tetrachloride	0.0185	0.00500	mg/kg wet	0.02000		92.4	49-148			
Chlorobenzene	0.0191	0.00500	mg/kg wet	0.02000		95.3	70-135			
Chloroethane	0.0176	0.00500	mg/kg wet	0.02000		88.1	17-186			
Chloroform	0.0187	0.00500	mg/kg wet	0.02000		93.4	64-134			
Chloromethane	0.0124	0.00500	mg/kg wet	0.02000		62.2	47-143			
cis-1,2-Dichloroethene	0.0182	0.00500	mg/kg wet	0.02000		90.8	66-138			
cis-1,3-Dichloropropene	0.0191	0.00500	mg/kg wet	0.02000		95.5	66-141			
Dibromochloromethane	0.0209	0.00500	mg/kg wet	0.02000		104	70-139			
Dibromomethane	0.0208	0.00500	mg/kg wet	0.02000		104	76-135			
Dichlorodifluoromethane	0.0122	0.00500	mg/kg wet	0.02000		61.0	20-181			
Ethylbenzene	0.0196	0.00500	mg/kg wet	0.02000		97.8	71-134			
Iodomethane	0.00723	0.0100	mg/kg wet	0.02000		36.2	13-162			
Methylene Chloride	0.0169	0.00500	mg/kg wet	0.02000		84.5	10-195			
Methyl tert-Butyl Ether	0.0187	0.0100	mg/kg wet	0.02000		93.7	54-153			
-Xylene	0.0405	0.0100	mg/kg wet	0.04000		101	70-138			
Hexane	0.0237	0.00500	mg/kg wet	0.02000		118	10-185			
o-Xylene	0.0194	0.00500	mg/kg wet	0.02000		97.1	72-139			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030104 - VOC PREP										
LCS (1030104-BS1)				Prepared: 07/16/10 Analyzed: 07/17/10						
Styrene	0.0194	0.00500	mg/kg wet	0.02000		97.0	71-142			
Tetrachloroethene	0.0182	0.00500	mg/kg wet	0.02000		91.0	41-161			
Toluene	0.0194	0.00500	mg/kg wet	0.02000		97.0	70-136			
trans-1,2-Dichloroethene	0.0172	0.00500	mg/kg wet	0.02000		85.9	36-159			
trans-1,3-Dichloropropene	0.0195	0.00500	mg/kg wet	0.02000		97.4	64-142			
Trichloroethene	0.0179	0.00500	mg/kg wet	0.02000		89.6	65-136			
Trichlorofluoromethane	0.0156	0.00500	mg/kg wet	0.02000		78.2	41-163			
Vinyl Chloride	0.0168	0.00500	mg/kg wet	0.02000		84.2	45-149			
Vinyl acetate	0.0106	0.0100	mg/kg wet	0.02000		53.2	10-208			
Surrogate: 4-Bromofluorobenzene	*42.7*		*ug/L*	*50.00*		*85.4*	*41-140*			
Surrogate: Dibromofluoromethane	*40.8*		*ug/L*	*50.00*		*81.5*	*33-129*			
Surrogate: Toluene-d8	*42.0*		*ug/L*	*50.00*		*84.1*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.9*		*ug/L*	*50.00*		*79.8*	*31-123*			
LCS Dup (1030104-BSD1)				Prepared: 07/16/10 Analyzed: 07/17/10						
1,1,2-Tetrachloroethane	0.0218	0.00500	mg/kg wet	0.02000		109	69-142	8.61	23	
,1-Trichloroethane	0.0203	0.00500	mg/kg wet	0.02000		102	58-127	4.02	20	
1,1,2,2-Tetrachloroethane	0.0240	0.00500	mg/kg wet	0.02000		120	74-141	4.96	20	
1,1,2-Trichloroethane	0.0216	0.00500	mg/kg wet	0.02000		108	73-140	5.62	15	
1,1-Dichloroethane	0.0200	0.00500	mg/kg wet	0.02000		99.8	60-130	6.68	20	
1,1-Dichloroethene	0.0187	0.00500	mg/kg wet	0.02000		93.4	62-142	4.37	20	
1,1-Dichloropropene	0.0190	0.00500	mg/kg wet	0.02000		94.9	63-142	5.52	24	
1,2-Dibromoethane	0.0214	0.00500	mg/kg wet	0.02000		107	72-140	8.88	20	
1,2-Dichloroethane	0.0206	0.00500	mg/kg wet	0.02000		103	70-142	5.69	18	
1,2-Dichloropropane	0.0205	0.00500	mg/kg wet	0.02000		102	66-139	4.14	22	
1,3-Dichloropropane	0.0216	0.00500	mg/kg wet	0.02000		108	75-139	5.95	17	
2,2-Dichloropropane	0.0173	0.00500	mg/kg wet	0.02000		86.4	10-180	1.52	40	
2-Butanone	0.0726	0.0200	mg/kg wet	0.08000		90.7	44-120	8.18	29	
2-Chlorotoluene	0.0219	0.00500	mg/kg wet	0.02000		110	69-137	6.50	30	
2-Hexanone	0.0937	0.0200	mg/kg wet	0.08000		117	10-172	4.53	40	
4-Chlorotoluene	0.0223	0.00500	mg/kg wet	0.02000		112	71-140	8.11	30	
4-Methyl-2-pentanone	0.0924	0.0200	mg/kg wet	0.08000		116	10-185	8.18	100	
Acetone	0.0775	0.0500	mg/kg wet	0.08000		96.9	10-229	9.82	40	
Acetonitrile	0.0205	0.0400	mg/kg wet	0.02000		102	35-169	16.4	69	
Acrylonitrile	0.0200	0.0200	mg/kg wet	0.02000		99.8	64-150	2.95	34	
Allyl chloride	0.0190	0.0100	mg/kg wet	0.02000		95.0	50-149	5.35	35	
Benzene	0.0198	0.00500	mg/kg wet	0.02000		98.8	64-138	4.82	25	
Bromobenzene	0.0216	0.00500	mg/kg wet	0.02000		108	73-140	6.67	30	
Bromochloromethane	0.0185	0.00500	mg/kg wet	0.02000		92.4	72-132	4.82	25	
Bromodichloromethane	0.0217	0.00500	mg/kg wet	0.02000		108	72-138	4.20	25	
Bromoform	0.0227	0.00500	mg/kg wet	0.02000		114	70-144	8.82	30	
Bromomethane	0.00932	0.00500	mg/kg wet	0.02000		46.6	10-199	5.33	40	
Carbon Disulfide	0.0136	0.0200	mg/kg wet	0.02000		68.2	38-148	5.11	36	
bon Tetrachloride	0.0192	0.00500	mg/kg wet	0.02000		95.8	49-148	3.62	34	
Chlorobenzene	0.0204	0.00500	mg/kg wet	0.02000		102	70-135	6.89	21	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030104 - VOC PREP										
LCS Dup (1030104-BSD1)				Prepared: 07/16/10 Analyzed: 07/17/10						
Chloroethane	0.0186	0.00500	mg/kg wet	0.02000		92.8	17-186	5.25	99	
Chloroform	0.0196	0.00500	mg/kg wet	0.02000		98.2	64-134	5.06	28	
Chloromethane	0.0116	0.00500	mg/kg wet	0.02000		58.2	47-143	6.65	25	
cis-1,2-Dichloroethene	0.0194	0.00500	mg/kg wet	0.02000		96.8	66-138	6.40	25	
cis-1,3-Dichloropropene	0.0199	0.00500	mg/kg wet	0.02000		99.4	66-141	4.00	25	
Dibromochloromethane	0.0227	0.00500	mg/kg wet	0.02000		113	70-139	8.22	25	
Dibromomethane	0.0215	0.00500	mg/kg wet	0.02000		108	76-135	3.69	23	
Dichlorodifluoromethane	0.0121	0.00500	mg/kg wet	0.02000		60.7	20-181	0.493	34	
Ethylbenzene	0.0211	0.00500	mg/kg wet	0.02000		106	71-134	7.58	31	
Iodomethane	0.00944	0.0100	mg/kg wet	0.02000		47.2	13-162	26.5	31	
Methylene Chloride	0.0178	0.00500	mg/kg wet	0.02000		88.9	10-195	5.07	51	
Methyl tert-Butyl Ether	0.0195	0.0100	mg/kg wet	0.02000		97.4	54-153	3.87	35	
m,p-Xylene	0.0431	0.0100	mg/kg wet	0.04000		108	70-138	6.20	31	
n-Hexane	0.0242	0.00500	mg/kg wet	0.02000		121	10-185	2.17	60	
o-Xylene	0.0208	0.00500	mg/kg wet	0.02000		104	72-139	6.96	23	
rene	0.0213	0.00500	mg/kg wet	0.02000		107	71-142	9.52	22	
trachloroethene	0.0193	0.00500	mg/kg wet	0.02000		96.4	41-161	5.87	40	
Toluene	0.0202	0.00500	mg/kg wet	0.02000		101	70-136	4.29	22	
trans-1,2-Dichloroethene	0.0176	0.00500	mg/kg wet	0.02000		87.8	36-159	2.30	24	
trans-1,3-Dichloropropene	0.0202	0.00500	mg/kg wet	0.02000		101	64-142	3.88	20	
Trichloroethene	0.0187	0.00500	mg/kg wet	0.02000		93.4	65-136	4.16	23	
Trichlorofluoromethane	0.0162	0.00500	mg/kg wet	0.02000		81.1	41-163	3.70	26	
Vinyl Chloride	0.0174	0.00500	mg/kg wet	0.02000		87.2	45-149	3.50	27	
Vinyl acetate	0.0149	0.0100	mg/kg wet	0.02000		74.4	10-208	33.1	77	
Surrogate: 4-Bromofluorobenzene	*42.9*		*ug/L*	*50.00*		*85.9*	*41-140*			
Surrogate: Dibromofluoromethane	*40.0*		*ug/L*	*50.00*		*79.9*	*33-129*			
Surrogate: Toluene-d8	*41.1*		*ug/L*	*50.00*		*82.2*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.8*		*ug/L*	*50.00*		*79.7*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Blank (1030107-BLK1)				Prepared & Analyzed: 07/18/10						
1,1,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
hlorotoluene	BDL	0.00500	mg/kg wet							
Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
Bromoform	BDL	0.00500	mg/kg wet							
Bromomethane	BDL	0.00500	mg/kg wet							
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
thyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
-Xylene	BDL	0.0100	mg/kg wet							
n-Hexane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Blank (1030107-BLK1)				Prepared & Analyzed: 07/18/10						
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*40.8*		*ug/L*	*50.00*		*81.7*	*41-140*			
Surrogate: Dibromofluoromethane	*41.7*		*ug/L*	*50.00*		*83.3*	*33-129*			
Surrogate: Toluene-d8	*42.3*		*ug/L*	*50.00*		*84.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.0*		*ug/L*	*50.00*		*80.1*	*31-123*			
LCS (1030107-BS1)				Prepared & Analyzed: 07/18/10						
1,1,2-Tetrachloroethane	0.0181	0.00500	mg/kg wet	0.02000		90.5	69-142			
1,1,1-Trichloroethane	0.0169	0.00500	mg/kg wet	0.02000		84.4	58-127			
1,1,2,2-Tetrachloroethane	0.0212	0.00500	mg/kg wet	0.02000		106	74-141			
1,1,2-Trichloroethane	0.0195	0.00500	mg/kg wet	0.02000		97.4	73-140			
1,1-Dichloroethane	0.0159	0.00500	mg/kg wet	0.02000		79.7	60-130			
1,1-Dichloroethene	0.0150	0.00500	mg/kg wet	0.02000		74.9	62-142			
1,1-Dichloropropene	0.0156	0.00500	mg/kg wet	0.02000		78.0	63-142			
1,2-Dibromoethane	0.0191	0.00500	mg/kg wet	0.02000		95.3	72-140			
1,2-Dichloroethane	0.0182	0.00500	mg/kg wet	0.02000		91.2	70-142			
1,2-Dichloropropane	0.0172	0.00500	mg/kg wet	0.02000		86.0	66-139			
1,3-Dichloropropane	0.0195	0.00500	mg/kg wet	0.02000		97.4	75-139			
2,2-Dichloropropane	0.0167	0.00500	mg/kg wet	0.02000		83.6	10-180			
2-Butanone	0.0720	0.0200	mg/kg wet	0.08000		90.0	44-120			
2-Chlorotoluene	0.0179	0.00500	mg/kg wet	0.02000		89.5	69-137			
2-Hexanone	0.0898	0.0200	mg/kg wet	0.08000		112	10-172			
4-Chlorotoluene	0.0184	0.00500	mg/kg wet	0.02000		92.1	71-140			
4-Methyl-2-pentanone	0.0945	0.0200	mg/kg wet	0.08000		118	10-185			
Acetone	0.0732	0.0500	mg/kg wet	0.08000		91.5	10-229			
Acetonitrile	0.0188	0.0400	mg/kg wet	0.02000		94.0	35-169			
Acrylonitrile	0.0195	0.0200	mg/kg wet	0.02000		97.4	64-150			
Allyl chloride	0.0166	0.0100	mg/kg wet	0.02000		83.1	50-149			
Benzene	0.0165	0.00500	mg/kg wet	0.02000		82.4	64-138			
Bromobenzene	0.0179	0.00500	mg/kg wet	0.02000		89.5	73-140			
Bromochloromethane	0.0179	0.00500	mg/kg wet	0.02000		89.5	72-132			
Bromodichloromethane	0.0189	0.00500	mg/kg wet	0.02000		94.4	72-138			
Bromoform	0.0213	0.00500	mg/kg wet	0.02000		106	70-144			
Bromomethane	0.0230	0.00500	mg/kg wet	0.02000		115	10-199			
Carbon Disulfide	0.0114	0.0200	mg/kg wet	0.02000		56.9	38-148			
Carbon Tetrachloride	0.0160	0.00500	mg/kg wet	0.02000		80.2	49-148			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
LCS (1030107-BS1)				Prepared & Analyzed: 07/18/10						
Chlorobenzene	0.0170	0.00500	mg/kg wet	0.02000		84.8	70-135			
Chloroethane	0.0213	0.00500	mg/kg wet	0.02000		106	17-186			
Chloroform	0.0165	0.00500	mg/kg wet	0.02000		82.7	64-134			
Chloromethane	0.0181	0.00500	mg/kg wet	0.02000		90.3	47-143			
cis-1,2-Dichloroethene	0.0163	0.00500	mg/kg wet	0.02000		81.4	66-138			
cis-1,3-Dichloropropene	0.0186	0.00500	mg/kg wet	0.02000		93.2	66-141			
Dibromochloromethane	0.0203	0.00500	mg/kg wet	0.02000		102	70-139			
Dibromomethane	0.0199	0.00500	mg/kg wet	0.02000		99.7	76-135			
Dichlorodifluoromethane	0.0193	0.00500	mg/kg wet	0.02000		96.4	20-181			
Ethylbenzene	0.0171	0.00500	mg/kg wet	0.02000		85.6	71-134			
Iodomethane	0.0121	0.0100	mg/kg wet	0.02000		60.3	13-162			
Methylene Chloride	0.0160	0.00500	mg/kg wet	0.02000		80.1	10-195			
Methyl tert-Butyl Ether	0.0202	0.0100	mg/kg wet	0.02000		101	54-153			
m,p-Xylene	0.0353	0.0100	mg/kg wet	0.04000		88.2	70-138			
n-Hexane	0.0233	0.00500	mg/kg wet	0.02000		117	10-185			
'ylene	0.0174	0.00500	mg/kg wet	0.02000		87.2	72-139			
,rene	0.0183	0.00500	mg/kg wet	0.02000		91.3	71-142			
Tetrachloroethene	0.0163	0.00500	mg/kg wet	0.02000		81.3	41-161			
Toluene	0.0172	0.00500	mg/kg wet	0.02000		86.1	70-136			
trans-1,2-Dichloroethene	0.0152	0.00500	mg/kg wet	0.02000		76.0	36-159			
trans-1,3-Dichloropropene	0.0195	0.00500	mg/kg wet	0.02000		97.6	64-142			
Trichloroethene	0.0160	0.00500	mg/kg wet	0.02000		80.1	65-136			
Trichlorofluoromethane	0.0187	0.00500	mg/kg wet	0.02000		93.4	41-163			
Vinyl Chloride	0.0229	0.00500	mg/kg wet	0.02000		115	45-149			
Vinyl acetate	0.0186	0.0100	mg/kg wet	0.02000		93.2	10-208			
Surrogate: 4-Bromofluorobenzene	*42.7*		*ug/L*	*50.00*		*85.4*	*41-140*			
Surrogate: Dibromofluoromethane	*40.7*		*ug/L*	*50.00*		*81.4*	*33-129*			
Surrogate: Toluene-d8	*41.8*		*ug/L*	*50.00*		*83.5*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*42.1*		*ug/L*	*50.00*		*84.1*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
LCS Dup (1030107-BSD1)				Prepared & Analyzed: 07/18/10						
1,1,1,2-Tetrachloroethane	0.0203	0.00500	mg/kg wet	0.02000		102	69-142	11.6	23	
1,1,1-Trichloroethane	0.0197	0.00500	mg/kg wet	0.02000		98.6	58-127	15.5	20	
1,1,2,2-Tetrachloroethane	0.0218	0.00500	mg/kg wet	0.02000		109	74-141	2.97	20	
1,1,2-Trichloroethane	0.0206	0.00500	mg/kg wet	0.02000		103	73-140	5.35	15	
1,1-Dichloroethane	0.0187	0.00500	mg/kg wet	0.02000		93.6	60-130	16.1	20	
1,1-Dichloroethene	0.0177	0.00500	mg/kg wet	0.02000		88.3	62-142	16.4	20	
1,1-Dichloropropene	0.0186	0.00500	mg/kg wet	0.02000		93.0	63-142	17.6	24	
1,2-Dibromoethane	0.0203	0.00500	mg/kg wet	0.02000		102	72-140	6.45	20	
1,2-Dichloroethane	0.0198	0.00500	mg/kg wet	0.02000		98.8	70-142	7.95	18	
1,2-Dichloropropane	0.0199	0.00500	mg/kg wet	0.02000		99.6	66-139	14.5	22	
1,3-Dichloropropane	0.0205	0.00500	mg/kg wet	0.02000		103	75-139	5.15	17	
2,2-Dichloropropane	0.0198	0.00500	mg/kg wet	0.02000		98.8	10-180	16.6	40	
2-Butanone	0.0693	0.0200	mg/kg wet	0.08000		86.6	44-120	3.82	29	
2-Chlorotoluene	0.0211	0.00500	mg/kg wet	0.02000		106	69-137	16.6	30	
2-Hexanone	0.0862	0.0200	mg/kg wet	0.08000		108	10-172	4.13	40	
hlorotoluene	0.0220	0.00500	mg/kg wet	0.02000		110	71-140	17.5	30	
Methyl-2-pentanone	0.0867	0.0200	mg/kg wet	0.08000		108	10-185	8.64	100	
Acetone	0.0692	0.0500	mg/kg wet	0.08000		86.5	10-229	5.66	40	
Acetonitrile	0.0191	0.0400	mg/kg wet	0.02000		95.6	35-169	1.63	69	
Acrylonitrile	0.0200	0.0200	mg/kg wet	0.02000		100	64-150	2.73	34	
Allyl chloride	0.0192	0.0100	mg/kg wet	0.02000		95.8	50-149	14.1	35	
Benzene	0.0191	0.00500	mg/kg wet	0.02000		95.5	64-138	14.8	25	
Bromobenzene	0.0208	0.00500	mg/kg wet	0.02000		104	73-140	15.0	30	
Bromochloromethane	0.0200	0.00500	mg/kg wet	0.02000		99.8	72-132	10.9	25	
Bromodichloromethane	0.0211	0.00500	mg/kg wet	0.02000		106	72-138	11.3	25	
Bromoform	0.0221	0.00500	mg/kg wet	0.02000		110	70-144	3.64	30	
Bromomethane	0.0228	0.00500	mg/kg wet	0.02000		114	10-199	1.22	40	
Carbon Disulfide	0.0130	0.0200	mg/kg wet	0.02000		64.8	38-148	13.0	36	
Carbon Tetrachloride	0.0190	0.00500	mg/kg wet	0.02000		94.8	49-148	16.7	34	
Chlorobenzene	0.0199	0.00500	mg/kg wet	0.02000		99.7	70-135	16.2	21	
Chloroethane	0.0233	0.00500	mg/kg wet	0.02000		117	17-186	9.19	99	
Chloroform	0.0194	0.00500	mg/kg wet	0.02000		96.8	64-134	15.7	28	
Chloromethane	0.0182	0.00500	mg/kg wet	0.02000		91.1	47-143	0.882	25	
cis-1,2-Dichloroethene	0.0188	0.00500	mg/kg wet	0.02000		94.2	66-138	14.5	25	
cis-1,3-Dichloropropene	0.0206	0.00500	mg/kg wet	0.02000		103	66-141	10.2	25	
Dibromochloromethane	0.0220	0.00500	mg/kg wet	0.02000		110	70-139	7.84	25	
Dibromomethane	0.0207	0.00500	mg/kg wet	0.02000		103	76-135	3.64	23	
Dichlorodifluoromethane	0.0193	0.00500	mg/kg wet	0.02000		96.7	20-181	0.311	34	
Ethylbenzene	0.0205	0.00500	mg/kg wet	0.02000		102	71-134	17.9	31	
Iodomethane	0.0129	0.0100	mg/kg wet	0.02000		64.4	13-162	6.58	31	
Methylene Chloride	0.0183	0.00500	mg/kg wet	0.02000		91.6	10-195	13.4	51	
Methyl tert-Butyl Ether	0.0212	0.0100	mg/kg wet	0.02000		106	54-153	5.17	35	
-Xylene	0.0419	0.0100	mg/kg wet	0.04000		105	70-138	17.1	31	
exane	0.0248	0.00500	mg/kg wet	0.02000		124	10-185	5.95	60	
o-Xylene	0.0205	0.00500	mg/kg wet	0.02000		103	72-139	16.1	23	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
LCS Dup (1030107-BSD1)				Prepared & Analyzed: 07/18/10						
Styrene	0.0211	0.00500	mg/kg wet	0.02000		105	71-142	14.3	22	
Tetrachloroethene	0.0192	0.00500	mg/kg wet	0.02000		96.0	41-161	16.5	40	
Toluene	0.0200	0.00500	mg/kg wet	0.02000		99.8	70-136	14.8	22	
trans-1,2-Dichloroethene	0.0175	0.00500	mg/kg wet	0.02000		87.4	36-159	13.9	24	
trans-1,3-Dichloropropene	0.0210	0.00500	mg/kg wet	0.02000		105	64-142	7.21	20	
Trichloroethene	0.0190	0.00500	mg/kg wet	0.02000		94.9	65-136	16.9	23	
Trichlorofluoromethane	0.0200	0.00500	mg/kg wet	0.02000		100	41-163	6.87	26	
Vinyl Chloride	0.0246	0.00500	mg/kg wet	0.02000		123	45-149	7.28	27	
Vinyl acetate	0.0188	0.0100	mg/kg wet	0.02000		94.2	10-208	1.01	77	
Surrogate: 4-Bromofluorobenzene	*43.4*		*ug/L*	*50.00*		*86.7*	*41-140*			
Surrogate: Dibromofluoromethane	*40.1*		*ug/L*	*50.00*		*80.3*	*33-129*			
Surrogate: Toluene-d8	*41.3*		*ug/L*	*50.00*		*82.7*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*41.2*		*ug/L*	*50.00*		*82.5*	*31-123*			
Matrix Spike (1030107-MS1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
1,1,2-Tetrachloroethane	14.6		ug/L	20.00	ND	73.2	38-121			
,1-Trichloroethane	16.5		ug/L	20.00	ND	82.3	35-131			
1,1,2,2-Tetrachloroethane	14.4		ug/L	20.00	ND	71.8	12-144			
1,1,2-Trichloroethane	16.3		ug/L	20.00	ND	81.4	33-126			
1,1-Dichloroethane	15.8		ug/L	20.00	ND	78.8	44-119			
1,1-Dichloroethene	14.5		ug/L	20.00	ND	72.5	31-125			
1,1-Dichloropropene	14.8		ug/L	20.00	ND	74.2	34-126			
1,2-Dibromoethane	14.6		ug/L	20.00	ND	73.1	31-123			
1,2-Dichloroethane	16.1		ug/L	20.00	ND	80.4	48-114			
1,2-Dichloropropane	16.1		ug/L	20.00	ND	80.4	44-118			
1,3-Dichloropropane	15.4		ug/L	20.00	ND	77.1	31-128			
2,2-Dichloropropane	15.6		ug/L	20.00	ND	77.8	10-149			
2-Butanone	59.5		ug/L	80.00	ND	74.3	10-159			
2-Chlorotoluene	12.8		ug/L	20.00	ND	64.2	18-108			
2-Hexanone	65.9		ug/L	80.00	ND	82.4	10-194			
4-Chlorotoluene	10.9		ug/L	20.00	ND	54.6	10-116			
4-Methyl-2-pentanone	70.1		ug/L	80.00	ND	87.6	10-186			
Acetone	87.8		ug/L	80.00	18.3	86.8	10-218			
Acetonitrile	19.2		ug/L	20.00	ND	96.2	22-170			
Acrylonitrile	16.1		ug/L	20.00	ND	80.6	22-140			
Allyl chloride	15.4		ug/L	20.00	ND	77.0	28-128			
Benzene	14.7		ug/L	20.00	ND	73.5	39-126			
Bromobenzene	11.7		ug/L	20.00	ND	58.6	15-109			
Bromochloromethane	15.7		ug/L	20.00	ND	78.5	47-124			
Bromodichloromethane	16.3		ug/L	20.00	ND	81.5	40-114			
Bromoform	13.6		ug/L	20.00	ND	67.8	19-119			
Bromomethane	19.8		ug/L	20.00	ND	98.8	10-173			
Carbon Disulfide	10.3		ug/L	20.00	ND	51.3	17-133			
rbon Tetrachloride	15.5		ug/L	20.00	ND	77.4	23-128			
Chlorobenzene	12.8		ug/L	20.00	ND	64.2	27-111			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Matrix Spike (1030107-MS1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
Chloroethane	20.6		ug/L	20.00	ND	103	17-153			
Chloroform	15.6		ug/L	20.00	ND	78.0	35-130			
Chloromethane	15.8		ug/L	20.00	ND	79.2	22-139			
cis-1,2-Dichloroethene	15.2		ug/L	20.00	ND	75.8	42-118			
cis-1,3-Dichloropropene	14.8		ug/L	20.00	ND	73.8	27-113			
Dibromochloromethane	15.5		ug/L	20.00	ND	77.3	29-122			
Dibromomethane	16.1		ug/L	20.00	ND	80.7	39-126			
Dichlorodifluoromethane	17.1		ug/L	20.00	ND	85.4	10-184			
Ethylbenzene	15.2		ug/L	20.00	ND	75.8	27-117			
Iodomethane	10.4		ug/L	20.00	ND	51.8	10-127			
Methylene Chloride	14.5		ug/L	20.00	ND	72.6	10-179			
Methyl tert-Butyl Ether	17.4		ug/L	20.00	1.62	79.1	38-126			
m,p-Xylene	32.8		ug/L	40.00	ND	82.0	26-114			
n-Hexane	16.2		ug/L	20.00	ND	81.0	10-122			
o-Xylene	14.8		ug/L	20.00	ND	74.0	28-119			
tene	11.7		ug/L	20.00	ND	58.4	17-104			
trachloroethene	14.9		ug/L	20.00	ND	74.3	24-114			
Toluene	15.5		ug/L	20.00	ND	77.6	32-121			
trans-1,2-Dichloroethene	14.2		ug/L	20.00	ND	71.2	32-122			
trans-1,3-Dichloropropene	14.5		ug/L	20.00	ND	72.6	19-109			
Trichloroethene	15.0		ug/L	20.00	ND	74.8	42-109			
Trichlorofluoromethane	17.1		ug/L	20.00	ND	85.3	10-158			
Vinyl Chloride	20.2		ug/L	20.00	ND	101	22-143			
Vinyl acetate	9.61		ug/L	20.00	ND	48.0	10-127			
Surrogate: 4-Bromofluorobenzene	*42.0*		*ug/L*	*50.00*		*84.0*	*41-140*			
Surrogate: Dibromofluoromethane	*41.1*		*ug/L*	*50.00*		*82.2*	*33-129*			
Surrogate: Toluene-d8	*42.0*		*ug/L*	*50.00*		*84.0*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*41.0*		*ug/L*	*50.00*		*82.0*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Matrix Spike Dup (1030107-MSD1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
1,1,1,2-Tetrachloroethane	15.9		ug/L	20.00	ND	79.6	38-121	8.37	50	
1,1,1-Trichloroethane	17.6		ug/L	20.00	ND	87.8	35-131	6.52	60	
1,1,2,2-Tetrachloroethane	15.7		ug/L	20.00	ND	78.7	12-144	9.10	51	
1,1,2-Trichloroethane	17.4		ug/L	20.00	ND	87.0	33-126	6.77	46	
1,1-Dichloroethane	17.1		ug/L	20.00	ND	85.4	44-119	8.04	48	
1,1-Dichloroethene	15.8		ug/L	20.00	ND	79.2	31-125	8.90	61	
1,1-Dichloropropene	16.0		ug/L	20.00	ND	80.0	34-126	7.46	81	
1,2-Dibromoethane	15.9		ug/L	20.00	ND	79.6	31-123	8.51	56	
1,2-Dichloroethane	17.1		ug/L	20.00	ND	85.4	48-114	5.91	40	
1,2-Dichloropropane	17.4		ug/L	20.00	ND	86.8	44-118	7.60	48	
1,3-Dichloropropane	17.0		ug/L	20.00	ND	85.0	31-128	9.81	50	
2,2-Dichloropropane	16.3		ug/L	20.00	ND	81.4	10-149	4.59	50	
2-Butanone	63.1		ug/L	80.00	ND	78.9	10-159	5.92	60	
2-Chlorotoluene	13.4		ug/L	20.00	ND	67.0	18-108	4.27	75	
2-Hexanone	74.6		ug/L	80.00	ND	93.3	10-194	12.4	58	
Chlorotoluene	11.6		ug/L	20.00	ND	57.8	10-116	5.69	80	
Methyl-2-pentanone	76.6		ug/L	80.00	ND	95.7	10-186	8.80	60	
Acetone	84.5		ug/L	80.00	18.3	82.8	10-218	3.73	60	
Acetonitrile	17.2		ug/L	20.00	ND	85.9	22-170	11.3	70	
Acrylonitrile	17.8		ug/L	20.00	ND	88.8	22-140	9.56	69	
Allyl chloride	16.6		ug/L	20.00	ND	82.9	28-128	7.31	68	
Benzene	16.6		ug/L	20.00	ND	82.9	39-126	12.0	61	
Bromobenzene	12.6		ug/L	20.00	ND	63.0	15-109	7.32	50	
Bromochloromethane	16.4		ug/L	20.00	ND	82.2	47-124	4.67	48	
Bromodichloromethane	17.4		ug/L	20.00	ND	87.1	40-114	6.64	49	
Bromoform	15.2		ug/L	20.00	ND	75.9	19-119	11.3	63	
Bromomethane	27.8		ug/L	20.00	ND	139	10-173	33.7	40	
Carbon Disulfide	10.9		ug/L	20.00	ND	54.4	17-133	5.77	74	
Carbon Tetrachloride	16.9		ug/L	20.00	ND	84.4	23-128	8.59	60	
Chlorobenzene	14.1		ug/L	20.00	ND	70.6	27-111	9.35	50	
Chloroethane	21.5		ug/L	20.00	ND	107	17-153	4.19	75	
Chloroform	16.8		ug/L	20.00	ND	83.8	35-130	7.23	52	
Chloromethane	15.6		ug/L	20.00	ND	78.0	22-139	1.65	42	
cis-1,2-Dichloroethene	16.4		ug/L	20.00	ND	82.0	42-118	7.80	63	
cis-1,3-Dichloropropene	16.0		ug/L	20.00	ND	79.8	27-113	7.75	50	
Dibromochloromethane	17.0		ug/L	20.00	ND	84.9	29-122	9.37	59	
Dibromomethane	17.5		ug/L	20.00	ND	87.6	39-126	8.26	48	
Dichlorodifluoromethane	17.1		ug/L	20.00	ND	85.3	10-184	0.117	108	
Ethylbenzene	16.0		ug/L	20.00	ND	80.2	27-117	5.64	40	
Iodomethane	15.2		ug/L	20.00	ND	76.0	10-127	38.0	50	
Methylene Chloride	15.2		ug/L	20.00	ND	76.2	10-179	4.84	58	
Methyl tert-Butyl Ether	18.6		ug/L	20.00	1.62	84.8	38-126	6.33	50	
m,p-Xylene	32.6		ug/L	40.00	ND	81.4	26-114	0.612	40	
Hexane	16.8		ug/L	20.00	ND	84.0	10-122	3.64	70	
o-Xylene	15.1		ug/L	20.00	ND	75.6	28-119	2.01	40	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Matrix Spike Dup (1030107-MSD1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
Styrene	12.7		ug/L	20.00	ND	63.6	17-104	8.45	40	
Tetrachloroethene	16.4		ug/L	20.00	ND	82.2	24-114	10.0	50	
Toluene	17.3		ug/L	20.00	ND	86.4	32-121	10.7	40	
trans-1,2-Dichloroethene	15.1		ug/L	20.00	ND	75.7	32-122	6.20	50	
trans-1,3-Dichloropropene	15.6		ug/L	20.00	ND	78.0	19-109	7.04	51	
Trichloroethene	15.9		ug/L	20.00	ND	79.3	42-109	5.84	38	
Trichlorofluoromethane	17.8		ug/L	20.00	ND	89.0	10-158	4.25	120	
Vinyl Chloride	21.6		ug/L	20.00	ND	108	22-143	6.85	60	
Vinyl acetate	7.33		ug/L	20.00	ND	36.6	10-127	26.9	119	
Surrogate: 4-Bromofluorobenzene	*41.8*		*ug/L*	*50.00*		*83.5*	*41-140*			
Surrogate: Dibromofluoromethane	*40.6*		*ug/L*	*50.00*		*81.2*	*33-129*			
Surrogate: Toluene-d8	*42.2*		*ug/L*	*50.00*		*84.5*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.9*		*ug/L*	*50.00*		*81.8*	*31-123*			
Batch 1030116 - VOC PREP										
ınk (1030116-BLK1)				Prepared & Analyzed: 07/19/10						
·,1,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
4-Chlorotoluene	BDL	0.00500	mg/kg wet							
4-Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
ımoform	BDL	0.00500	mg/kg wet							
₋romomethane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Blank (1030116-BLK1)				Prepared & Analyzed: 07/19/10						
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
Methyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
-Xylene	BDL	0.0100	mg/kg wet							
Hexane	BDL	0.00500	mg/kg wet							
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*37.0*		*ug/L*	*50.00*		*74.0*	*41-140*			
Surrogate: Dibromofluoromethane	*36.1*		*ug/L*	*50.00*		*72.2*	*33-129*			
Surrogate: Toluene-d8	*40.3*		*ug/L*	*50.00*		*80.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*37.7*		*ug/L*	*50.00*		*75.3*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
LCS (1030116-BS1)				Prepared & Analyzed: 07/19/10						
1,1,1,2-Tetrachloroethane	0.0146	0.00500	mg/kg wet	0.02000		73.2	69-142			
1,1,1-Trichloroethane	0.0141	0.00500	mg/kg wet	0.02000		70.6	58-127			
1,1,2,2-Tetrachloroethane	0.0192	0.00500	mg/kg wet	0.02000		95.9	74-141			
1,1,2-Trichloroethane	0.0178	0.00500	mg/kg wet	0.02000		88.9	73-140			
1,1-Dichloroethane	0.0157	0.00500	mg/kg wet	0.02000		78.4	60-130			
1,1-Dichloroethene	0.0142	0.00500	mg/kg wet	0.02000		70.8	62-142			
1,1-Dichloropropene	0.0142	0.00500	mg/kg wet	0.02000		71.1	63-142			
1,2-Dibromoethane	0.0161	0.00500	mg/kg wet	0.02000		80.4	72-140			
1,2-Dichloroethane	0.0165	0.00500	mg/kg wet	0.02000		82.4	70-142			
1,2-Dichloropropane	0.0170	0.00500	mg/kg wet	0.02000		84.8	66-139			
1,3-Dichloropropane	0.0174	0.00500	mg/kg wet	0.02000		86.8	75-139			
2,2-Dichloropropane	0.0145	0.00500	mg/kg wet	0.02000		72.6	10-180			
2-Butanone	0.0751	0.0200	mg/kg wet	0.08000		93.9	44-120			
2-Chlorotoluene	0.0156	0.00500	mg/kg wet	0.02000		77.8	69-137			
2-Hexanone	0.0854	0.0200	mg/kg wet	0.08000		107	10-172			
hlorotoluene	0.0146	0.00500	mg/kg wet	0.02000		72.9	71-140			
ethyl-2-pentanone	0.0791	0.0200	mg/kg wet	0.08000		98.9	10-185			
Acetone	0.0869	0.0500	mg/kg wet	0.08000		109	10-229			
Acetonitrile	0.0212	0.0400	mg/kg wet	0.02000		106	35-169			
Acrylonitrile	0.0198	0.0200	mg/kg wet	0.02000		98.8	64-150			
Allyl chloride	0.0149	0.0100	mg/kg wet	0.02000		74.3	50-149			
Benzene	0.0158	0.00500	mg/kg wet	0.02000		79.0	64-138			
Bromobenzene	0.0154	0.00500	mg/kg wet	0.02000		76.8	73-140			
Bromochloromethane	0.0148	0.00500	mg/kg wet	0.02000		73.8	72-132			
Bromodichloromethane	0.0162	0.00500	mg/kg wet	0.02000		80.9	72-138			
Bromoform	0.0164	0.00500	mg/kg wet	0.02000		82.3	70-144			
Bromomethane	0.0371	0.00500	mg/kg wet	0.02000		186	10-199			
Carbon Disulfide	0.0103	0.0200	mg/kg wet	0.02000		51.3	38-148			
Carbon Tetrachloride	0.0120	0.00500	mg/kg wet	0.02000		60.2	49-148			
Chlorobenzene	0.0157	0.00500	mg/kg wet	0.02000		78.5	70-135			
Chloroethane	0.0847	0.00500	mg/kg wet	0.02000		424	17-186			L
Chloroform	0.0150	0.00500	mg/kg wet	0.02000		75.0	64-134			
Chloromethane	0.0251	0.00500	mg/kg wet	0.02000		125	47-143			
cis-1,2-Dichloroethene	0.0154	0.00500	mg/kg wet	0.02000		77.0	66-138			
cis-1,3-Dichloropropene	0.0165	0.00500	mg/kg wet	0.02000		82.6	66-141			
Dibromochloromethane	0.0154	0.00500	mg/kg wet	0.02000		76.8	70-139			
Dibromomethane	0.0170	0.00500	mg/kg wet	0.02000		85.0	76-135			
Dichlorodifluoromethane	0.0255	0.00500	mg/kg wet	0.02000		127	20-181			
Ethylbenzene	0.0156	0.00500	mg/kg wet	0.02000		78.0	71-134			
Iodomethane	0.00777	0.0100	mg/kg wet	0.02000		38.8	13-162			
Methylene Chloride	0.0180	0.00500	mg/kg wet	0.02000		89.8	10-195			
Methyl tert-Butyl Ether	0.0195	0.0100	mg/kg wet	0.02000		97.7	54-153			
-Xylene	0.0313	0.0100	mg/kg wet	0.04000		78.2	70-138			
exane	0.0181	0.00500	mg/kg wet	0.02000		90.5	10-185			
o-Xylene	0.0154	0.00500	mg/kg wet	0.02000		76.8	72-139			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
LCS (1030116-BS1)				Prepared & Analyzed: 07/19/10						
Styrene	0.0163	0.00500	mg/kg wet	0.02000		81.4	71-142			
Tetrachloroethene	0.0133	0.00500	mg/kg wet	0.02000		66.5	41-161			
Toluene	0.0153	0.00500	mg/kg wet	0.02000		76.4	70-136			
trans-1,2-Dichloroethene	0.0140	0.00500	mg/kg wet	0.02000		70.2	36-159			
trans-1,3-Dichloropropene	0.0179	0.00500	mg/kg wet	0.02000		89.5	64-142			
Trichloroethene	0.0134	0.00500	mg/kg wet	0.02000		67.2	65-136			
Trichlorofluoromethane	0.0447	0.00500	mg/kg wet	0.02000		223	41-163			L
Vinyl Chloride	0.0138	0.00500	mg/kg wet	0.02000		69.0	45-149			
Vinyl acetate	0.0186	0.0100	mg/kg wet	0.02000		93.1	10-208			
Surrogate: 4-Bromofluorobenzene	*38.6*		*ug/L*	*50.00*		*77.2*	*41-140*			
Surrogate: Dibromofluoromethane	*35.2*		*ug/L*	*50.00*		*70.5*	*33-129*			
Surrogate: Toluene-d8	*38.3*		*ug/L*	*50.00*		*76.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.9*		*ug/L*	*50.00*		*79.8*	*31-123*			
LCS Dup (1030116-BSD1)				Prepared & Analyzed: 07/19/10						
1,1,2-Tetrachloroethane	0.0174	0.00500	mg/kg wet	0.02000		87.0	69-142	17.2	23	
,1-Trichloroethane	0.0186	0.00500	mg/kg wet	0.02000		93.1	58-127	27.4	20	R
1,1,2,2-Tetrachloroethane	0.0203	0.00500	mg/kg wet	0.02000		102	74-141	5.87	20	
1,1,2-Trichloroethane	0.0207	0.00500	mg/kg wet	0.02000		104	73-140	15.2	15	R
1,1-Dichloroethane	0.0199	0.00500	mg/kg wet	0.02000		99.3	60-130	23.5	20	R
1,1-Dichloroethene	0.0179	0.00500	mg/kg wet	0.02000		89.6	62-142	23.3	20	R
1,1-Dichloropropene	0.0184	0.00500	mg/kg wet	0.02000		92.2	63-142	25.8	24	R
1,2-Dibromoethane	0.0172	0.00500	mg/kg wet	0.02000		85.9	72-140	6.56	20	
1,2-Dichloroethane	0.0196	0.00500	mg/kg wet	0.02000		98.0	70-142	17.4	18	
1,2-Dichloropropane	0.0214	0.00500	mg/kg wet	0.02000		107	66-139	23.0	22	R
1,3-Dichloropropane	0.0198	0.00500	mg/kg wet	0.02000		98.9	75-139	13.0	17	
2,2-Dichloropropane	0.0190	0.00500	mg/kg wet	0.02000		94.9	10-180	26.7	40	
2-Butanone	0.0751	0.0200	mg/kg wet	0.08000		93.9	44-120	0.0133	29	
2-Chlorotoluene	0.0194	0.00500	mg/kg wet	0.02000		97.2	69-137	22.2	30	
2-Hexanone	0.0891	0.0200	mg/kg wet	0.08000		111	10-172	4.28	40	
4-Chlorotoluene	0.0190	0.00500	mg/kg wet	0.02000		94.8	71-140	26.1	30	
4-Methyl-2-pentanone	0.0798	0.0200	mg/kg wet	0.08000		99.7	10-185	0.780	100	
Acetone	0.0904	0.0500	mg/kg wet	0.08000		113	10-229	3.90	40	
Acetonitrile	0.0221	0.0400	mg/kg wet	0.02000		111	35-169	4.20	69	
Acrylonitrile	0.0203	0.0200	mg/kg wet	0.02000		102	64-150	2.75	34	
Allyl chloride	0.0180	0.0100	mg/kg wet	0.02000		90.2	50-149	19.3	35	
Benzene	0.0199	0.00500	mg/kg wet	0.02000		99.3	64-138	22.7	25	
Bromobenzene	0.0176	0.00500	mg/kg wet	0.02000		88.2	73-140	13.9	30	
Bromochloromethane	0.0162	0.00500	mg/kg wet	0.02000		80.9	72-132	9.18	25	
Bromodichloromethane	0.0196	0.00500	mg/kg wet	0.02000		98.0	72-138	19.1	25	
Bromoform	0.0175	0.00500	mg/kg wet	0.02000		87.3	70-144	5.96	30	
Bromomethane	0.0472	0.00500	mg/kg wet	0.02000		236	10-199	23.9	40	L
Carbon Disulfide	0.0126	0.0200	mg/kg wet	0.02000		63.0	38-148	20.5	36	
bon Tetrachloride	0.0157	0.00500	mg/kg wet	0.02000		78.7	49-148	26.6	34	
Chlorobenzene	0.0192	0.00500	mg/kg wet	0.02000		96.0	70-135	20.2	21	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
LCS Dup (1030116-BSD1)				Prepared & Analyzed: 07/19/10						
Chloroethane	0.100	0.00500	mg/kg wet	0.02000		501	17-186	16.7	99	L
Chloroform	0.0183	0.00500	mg/kg wet	0.02000		91.4	64-134	19.6	28	
Chloromethane	0.0292	0.00500	mg/kg wet	0.02000		146	47-143	15.4	25	L
cis-1,2-Dichloroethene	0.0192	0.00500	mg/kg wet	0.02000		96.0	66-138	22.1	25	
cis-1,3-Dichloropropene	0.0197	0.00500	mg/kg wet	0.02000		98.7	66-141	17.8	25	
Dibromochloromethane	0.0172	0.00500	mg/kg wet	0.02000		85.8	70-139	11.1	25	
Dibromomethane	0.0189	0.00500	mg/kg wet	0.02000		94.6	76-135	10.7	23	
Dichlorodifluoromethane	0.0269	0.00500	mg/kg wet	0.02000		135	20-181	5.53	34	
Ethylbenzene	0.0200	0.00500	mg/kg wet	0.02000		100	71-134	24.9	31	
Iodomethane	0.00867	0.0100	mg/kg wet	0.02000		43.4	13-162	10.9	31	
Methylene Chloride	0.0216	0.00500	mg/kg wet	0.02000		108	10-195	18.4	51	
Methyl tert-Butyl Ether	0.0216	0.0100	mg/kg wet	0.02000		108	54-153	9.88	35	
m,p-Xylene	0.0396	0.0100	mg/kg wet	0.04000		99.0	70-138	23.6	31	
n-Hexane	0.0195	0.00500	mg/kg wet	0.02000		97.5	10-185	7.45	60	
o-Xylene	0.0187	0.00500	mg/kg wet	0.02000		93.4	72-139	19.4	23	
ene	0.0194	0.00500	mg/kg wet	0.02000		96.8	71-142	17.2	22	
rachloroethene	0.0168	0.00500	mg/kg wet	0.02000		84.0	41-161	23.3	40	
Toluene	0.0196	0.00500	mg/kg wet	0.02000		97.8	70-136	24.6	22	R
trans-1,2-Dichloroethene	0.0172	0.00500	mg/kg wet	0.02000		86.0	36-159	20.2	24	
trans-1,3-Dichloropropene	0.0207	0.00500	mg/kg wet	0.02000		104	64-142	14.7	20	
Trichloroethene	0.0172	0.00500	mg/kg wet	0.02000		86.0	65-136	24.6	23	R
Trichlorofluoromethane	0.0518	0.00500	mg/kg wet	0.02000		259	41-163	14.8	26	L
Vinyl Chloride	0.0165	0.00500	mg/kg wet	0.02000		82.7	45-149	18.1	27	
Vinyl acetate	0.0205	0.0100	mg/kg wet	0.02000		102	10-208	9.62	77	
Surrogate: 4-Bromofluorobenzene	*38.7*		*ug/L*	*50.00*		*77.3*	*41-140*			
Surrogate: Dibromofluoromethane	*35.1*		*ug/L*	*50.00*		*70.2*	*33-129*			
Surrogate: Toluene-d8	*39.3*		*ug/L*	*50.00*		*78.7*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.6*		*ug/L*	*50.00*		*81.3*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Matrix Spike (1030116-MS1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
1,1,1,2-Tetrachloroethane	13.9		ug/L	20.00	ND	69.5	38-121			
1,1,1-Trichloroethane	14.8		ug/L	20.00	ND	74.2	35-131			
1,1,2,2-Tetrachloroethane	19.4		ug/L	20.00	ND	97.2	12-144			
1,1,2-Trichloroethane	19.4		ug/L	20.00	ND	96.9	33-126			
1,1-Dichloroethane	17.4		ug/L	20.00	ND	87.2	44-119			
1,1-Dichloroethene	15.1		ug/L	20.00	ND	75.7	31-125			
1,1-Dichloropropene	15.2		ug/L	20.00	ND	76.2	34-126			
1,2-Dibromoethane	15.1		ug/L	20.00	ND	75.7	31-123			
1,2-Dichloroethane	17.8		ug/L	20.00	ND	89.1	48-114			
1,2-Dichloropropane	18.1		ug/L	20.00	ND	90.3	44-118			
1,3-Dichloropropane	18.2		ug/L	20.00	ND	91.2	31-128			
2,2-Dichloropropane	14.7		ug/L	20.00	ND	73.4	10-149			
2-Butanone	79.2		ug/L	80.00	ND	99.0	10-159			
2-Chlorotoluene	15.8		ug/L	20.00	ND	79.0	18-108			
2-Hexanone	94.3		ug/L	80.00	ND	118	10-194			
Chlorotoluene	14.9		ug/L	20.00	ND	74.4	10-116			
Methyl-2-pentanone	77.6		ug/L	80.00	ND	97.0	10-186			
Acetone	103		ug/L	80.00	14.6	111	10-218			
Acetonitrile	20.8		ug/L	20.00	ND	104	22-170			
Acrylonitrile	19.4		ug/L	20.00	ND	97.2	22-140			
Allyl chloride	14.6		ug/L	20.00	ND	73.2	28-128			
Benzene	16.8		ug/L	20.00	ND	83.8	39-126			
Bromobenzene	14.0		ug/L	20.00	ND	70.2	15-109			
Bromochloromethane	13.5		ug/L	20.00	ND	67.6	47-124			
Bromodichloromethane	17.3		ug/L	20.00	ND	86.6	40-114			
Bromoform	15.3		ug/L	20.00	ND	76.6	19-119			
Bromomethane	56.7		ug/L	20.00	ND	284	10-173			M
Carbon Disulfide	10.5		ug/L	20.00	ND	52.4	17-133			
Carbon Tetrachloride	12.8		ug/L	20.00	ND	64.0	23-128			
Chlorobenzene	15.2		ug/L	20.00	ND	75.8	27-111			
Chloroethane	108		ug/L	20.00	ND	539	17-153			M
Chloroform	15.8		ug/L	20.00	ND	79.2	35-130			
Chloromethane	25.3		ug/L	20.00	ND	126	22-139			
cis-1,2-Dichloroethene	16.3		ug/L	20.00	ND	81.4	42-118			
cis-1,3-Dichloropropene	16.5		ug/L	20.00	ND	82.3	27-113			
Dibromochloromethane	14.1		ug/L	20.00	ND	70.6	29-122			
Dibromomethane	17.0		ug/L	20.00	ND	85.0	39-126			
Dichlorodifluoromethane	22.1		ug/L	20.00	ND	110	10-184			
Ethylbenzene	16.2		ug/L	20.00	ND	81.2	27-117			
Iodomethane	7.14		ug/L	20.00	ND	35.7	10-127			
Methylene Chloride	17.8		ug/L	20.00	ND	88.8	10-179			
Methyl tert-Butyl Ether	19.0		ug/L	20.00	ND	95.0	38-126			
m-Xylene	31.9		ug/L	40.00	ND	79.8	26-114			
Hexane	17.6		ug/L	20.00	ND	87.8	10-122			
o-Xylene	14.6		ug/L	20.00	ND	73.0	28-119			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Matrix Spike (1030116-MS1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
Styrene	15.1		ug/L	20.00	ND	75.6	17-104			
Tetrachloroethene	12.6		ug/L	20.00	ND	62.9	24-114			
Toluene	16.2		ug/L	20.00	ND	80.8	32-121			
trans-1,2-Dichloroethene	13.7		ug/L	20.00	ND	68.4	32-122			
trans-1,3-Dichloropropene	18.6		ug/L	20.00	ND	92.8	19-109			
Trichloroethene	13.2		ug/L	20.00	ND	65.8	42-109			
Trichlorofluoromethane	53.7		ug/L	20.00	ND	269	10-158			M
Vinyl Chloride	56.0		ug/L	20.00	ND	280	22-143			M
Vinyl acetate	17.8		ug/L	20.00	ND	89.2	10-127			
Surrogate: 4-Bromofluorobenzene	*38.6*		*ug/L*	*50.00*		*77.2*	*41-140*			
Surrogate: Dibromofluoromethane	*36.8*		*ug/L*	*50.00*		*73.6*	*33-129*			
Surrogate: Toluene-d8	*40.8*		*ug/L*	*50.00*		*81.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.0*		*ug/L*	*50.00*		*79.9*	*31-123*			
Matrix Spike Dup (1030116-MSD1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
1,1,2-Tetrachloroethane	12.9		ug/L	20.00	ND	64.6	38-121	7.23	50	
,1-Trichloroethane	14.2		ug/L	20.00	ND	70.9	35-131	4.55	60	
1,1,2,2-Tetrachloroethane	18.1		ug/L	20.00	ND	90.3	12-144	7.41	51	
1,1,2-Trichloroethane	17.8		ug/L	20.00	ND	89.0	33-126	8.56	46	
1,1-Dichloroethane	16.5		ug/L	20.00	ND	82.4	44-119	5.54	48	
1,1-Dichloroethene	14.5		ug/L	20.00	ND	72.4	31-125	4.53	61	
1,1-Dichloropropene	14.4		ug/L	20.00	ND	71.9	34-126	5.87	81	
1,2-Dibromoethane	14.2		ug/L	20.00	ND	71.2	31-123	6.13	56	
1,2-Dichloroethane	17.1		ug/L	20.00	ND	85.6	48-114	3.95	40	
1,2-Dichloropropane	17.2		ug/L	20.00	ND	86.0	44-118	4.88	48	
1,3-Dichloropropane	17.0		ug/L	20.00	ND	85.2	31-128	6.81	50	
2,2-Dichloropropane	14.2		ug/L	20.00	ND	71.0	10-149	3.32	50	
2-Butanone	78.8		ug/L	80.00	ND	98.5	10-159	0.506	60	
2-Chlorotoluene	14.4		ug/L	20.00	ND	72.0	18-108	9.21	75	
2-Hexanone	87.9		ug/L	80.00	ND	110	10-194	7.06	58	
4-Chlorotoluene	13.5		ug/L	20.00	ND	67.6	10-116	9.50	80	
4-Methyl-2-pentanone	71.8		ug/L	80.00	ND	89.8	10-186	7.70	60	
Acetone	106		ug/L	80.00	14.6	114	10-218	2.84	60	
Acetonitrile	24.1		ug/L	20.00	ND	120	22-170	14.5	70	
Acrylonitrile	19.6		ug/L	20.00	ND	97.8	22-140	0.615	69	
Allyl chloride	14.5		ug/L	20.00	ND	72.5	28-128	1.03	68	
Benzene	16.0		ug/L	20.00	ND	79.8	39-126	4.83	61	
Bromobenzene	12.9		ug/L	20.00	ND	64.6	15-109	8.46	50	
Bromochloromethane	12.7		ug/L	20.00	ND	63.3	47-124	6.50	48	
Bromodichloromethane	16.2		ug/L	20.00	ND	80.8	40-114	6.93	49	
Bromoform	13.9		ug/L	20.00	ND	69.4	19-119	9.87	63	
Bromomethane	54.2		ug/L	20.00	ND	271	10-173	4.53	40	M
Carbon Disulfide	9.77		ug/L	20.00	ND	48.8	17-133	7.01	74	
bon Tetrachloride	12.0		ug/L	20.00	ND	59.8	23-128	6.78	60	
Chlorobenzene	14.3		ug/L	20.00	ND	71.5	27-111	5.90	50	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Matrix Spike Dup (1030116-MSD1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
Chloroethane	104		ug/L	20.00	ND	518	17-153	3.87	75	M
Chloroform	15.3		ug/L	20.00	ND	76.3	35-130	3.79	52	
Chloromethane	24.2		ug/L	20.00	ND	121	22-139	4.20	42	
cis-1,2-Dichloroethene	15.8		ug/L	20.00	ND	78.8	42-118	3.31	63	
cis-1,3-Dichloropropene	15.4		ug/L	20.00	ND	76.8	27-113	6.85	50	
Dibromochloromethane	13.0		ug/L	20.00	ND	65.2	29-122	7.95	59	
Dibromomethane	16.6		ug/L	20.00	ND	82.9	39-126	2.44	48	
Dichlorodifluoromethane	21.8		ug/L	20.00	ND	109	10-184	1.46	108	
Ethylbenzene	15.3		ug/L	20.00	ND	76.4	27-117	6.15	40	
Iodomethane	7.45		ug/L	20.00	ND	37.2	10-127	4.25	50	
Methylene Chloride	17.0		ug/L	20.00	ND	84.9	10-179	4.55	58	
Methyl tert-Butyl Ether	19.0		ug/L	20.00	ND	94.8	38-126	0.158	50	
m,p-Xylene	29.8		ug/L	40.00	ND	74.4	26-114	7.00	40	
n-Hexane	18.1		ug/L	20.00	ND	90.4	10-122	2.92	70	
o-Xylene	13.7		ug/L	20.00	ND	68.3	28-119	6.72	40	
'rene	13.3		ug/L	20.00	ND	66.6	17-104	12.8	40	
rachloroethene	11.9		ug/L	20.00	ND	59.3	24-114	5.89	50	
Toluene	15.1		ug/L	20.00	ND	75.6	32-121	6.52	40	
trans-1,2-Dichloroethene	13.2		ug/L	20.00	ND	65.9	32-122	3.80	50	
trans-1,3-Dichloropropene	17.2		ug/L	20.00	ND	85.8	19-109	7.95	51	
Trichloroethene	12.5		ug/L	20.00	ND	62.6	42-109	5.06	38	
Trichlorofluoromethane	53.1		ug/L	20.00	ND	266	10-158	1.18	120	M
Vinyl Chloride	55.2		ug/L	20.00	ND	276	22-143	1.39	60	M
Vinyl acetate	18.0		ug/L	20.00	ND	90.2	10-127	1.17	119	
Surrogate: 4-Bromofluorobenzene	*38.8*		*ug/L*	*50.00*		*77.6*	*41-140*			
Surrogate: Dibromofluoromethane	*36.6*		*ug/L*	*50.00*		*73.2*	*33-129*			
Surrogate: Toluene-d8	*40.2*		*ug/L*	*50.00*		*80.4*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.9*		*ug/L*	*50.00*		*79.8*	*31-123*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029082 - PREP_SVOC_W										
Blank (1029082-BLK1)				Prepared: 07/13/10 Analyzed: 07/22/10						
2-Methylnaphthalene	BDL	10.0	ug/L							
Acenaphthene	BDL	10.0	ug/L							
Acenaphthylene	BDL	10.0	ug/L							
Anthracene	BDL	10.0	ug/L							
Benz(a)anthracene	BDL	0.260	ug/L							
Benzo(a)pyrene	BDL	0.200	ug/L							
Benzo(b)fluoranthene	BDL	0.170	ug/L							
Benzo(g,h,i)perylene	BDL	10.0	ug/L							
Benzo(k)fluoranthene	BDL	1.70	ug/L							
Chrysene	BDL	10.0	ug/L							
Dibenz(a,h)anthracene	BDL	0.200	ug/L							
Fluoranthene	BDL	10.0	ug/L							
Fluorene	BDL	10.0	ug/L							
Indeno(1,2,3-cd)pyrene	BDL	0.220	ug/L							
Naphthalene	BDL	10.0	ug/L							
uanthrene	BDL	10.0	ug/L							
.ene	BDL	10.0	ug/L							
Surrogate: Nitrobenzene-d5	*29.7*		*ug/L*	*40.00*		*74.2*	*50-125*			
Surrogate: 2-Fluorobiphenyl	*29.2*		*ug/L*	*40.00*		*73.1*	*50-120*			
Surrogate: Terphenyl-d14	*20.3*		*ug/L*	*40.00*		*50.8*	*30-150*			
LCS (1029082-BS1)				Prepared: 07/13/10 Analyzed: 07/22/10						
Acenaphthene	88.8	10.0	ug/L	100.0		88.8	65-110			
Acenaphthylene	91.7	10.0	ug/L	100.0		91.7	45-120			
Anthracene	102	10.0	ug/L	100.0		102	50-120			
Benz(a)anthracene	103	0.260	ug/L	100.0		103	65-125			
Benzo(a)pyrene	116	0.200	ug/L	100.0		116	40-150			
Benzo(b)fluoranthene	117	0.170	ug/L	100.0		117	30-165			
Benzo(g,h,i)perylene	128	10.0	ug/L	100.0		128	40-175			
Benzo(k)fluoranthene	82.5	1.70	ug/L	100.0		82.5	35-125			
Chrysene	82.4	10.0	ug/L	100.0		82.4	60-125			
Dibenz(a,h)anthracene	126	0.200	ug/L	100.0		126	30-180			
Fluoranthene	108	10.0	ug/L	100.0		108	55-125			
Fluorene	102	10.0	ug/L	100.0		102	60-120			
Indeno(1,2,3-cd)pyrene	130	0.220	ug/L	100.0		130	40-180			
Naphthalene	66.5	10.0	ug/L	100.0		66.5	40-115			
Phenanthrene	93.5	10.0	ug/L	100.0		93.5	50-115			
Pyrene	80.3	10.0	ug/L	100.0		80.3	55-130			
Surrogate: Nitrobenzene-d5	*34.4*		*ug/L*	*40.00*		*86.1*	*50-125*			
Surrogate: 2-Fluorobiphenyl	*35.3*		*ug/L*	*40.00*		*88.3*	*50-120*			
Surrogate: Terphenyl-d14	*20.4*		*ug/L*	*40.00*		*51.1*	*30-150*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029082 - PREP_SVOC_W										
LCS Dup (1029082-BSD1)				Prepared: 07/13/10 Analyzed: 07/22/10						
Acenaphthene	74.9	10.0	ug/L	100.0		74.9	65-110	17.0	15	R
Acenaphthylene	77.1	10.0	ug/L	100.0		77.1	45-120	17.2	15	R
Anthracene	88.4	10.0	ug/L	100.0		88.4	50-120	14.5	18	
Benz(a)anthracene	89.8	0.260	ug/L	100.0		89.8	65-125	14.2	20	
Benzo(a)pyrene	95.9	0.200	ug/L	100.0		95.9	40-150	18.6	20	
Benzo(b)fluoranthene	97.1	0.170	ug/L	100.0		97.1	30-165	18.9	30	
Benzo(g,h,i)perylene	102	10.0	ug/L	100.0		102	40-175	22.4	20	R
Benzo(k)fluoranthene	76.8	1.70	ug/L	100.0		76.8	35-125	7.21	30	
Chrysene	69.0	10.0	ug/L	100.0		69.0	60-125	17.8	20	
Dibenz(a,h)anthracene	99.6	0.200	ug/L	100.0		99.6	30-180	23.2	20	R
Fluoranthene	94.1	10.0	ug/L	100.0		94.1	55-125	13.6	15	
Fluorene	85.1	10.0	ug/L	100.0		85.1	60-120	18.4	15	R
Indeno(1,2,3-cd)pyrene	103	0.220	ug/L	100.0		103	40-180	23.5	30	
Naphthalene	58.6	10.0	ug/L	100.0		58.6	40-115	12.7	14	
Phenanthrene	80.2	10.0	ug/L	100.0		80.2	50-115	15.3	18	
Pyrene	73.0	10.0	ug/L	100.0		73.0	55-130	9.49	20	
Surrogate: Nitrobenzene-d5	*29.6*		*ug/L*	*40.00*		*74.0*	*50-125*			
Surrogate: 2-Fluorobiphenyl	*28.7*		*ug/L*	*40.00*		*71.7*	*50-120*			
Surrogate: Terphenyl-d14	*17.8*		*ug/L*	*40.00*		*44.4*	*30-150*			
Batch 1029211 - PREP_SVOC_S										
Blank (1029211-BLK1)				Prepared: 07/16/10 Analyzed: 07/20/10						
Acenaphthene	BDL	0.100	mg/kg wet							
Acenaphthylene	BDL	0.100	mg/kg wet							
Anthracene	BDL	0.100	mg/kg wet							
Benz(a)anthracene	BDL	0.100	mg/kg wet							
Benzo(a)pyrene	BDL	0.100	mg/kg wet							
Benzo(b)fluoranthene	BDL	0.100	mg/kg wet							
Benzo(g,h,i)perylene	BDL	0.100	mg/kg wet							
Benzo(k)fluoranthene	BDL	0.100	mg/kg wet							
Chrysene	BDL	0.100	mg/kg wet							
Dibenz(a,h)anthracene	BDL	0.100	mg/kg wet							
Fluoranthene	BDL	0.100	mg/kg wet							
Fluorene	BDL	0.100	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BDL	0.100	mg/kg wet							
Naphthalene	BDL	0.100	mg/kg wet							
Phenanthrene	BDL	0.100	mg/kg wet							
Pyrene	BDL	0.100	mg/kg wet							
Surrogate: Nitrobenzene-d5	*1.30*		*mg/kg wet*	*1.333*		*97.7*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*0.979*		*mg/kg wet*	*1.333*		*73.4*	*56-121*			
Surrogate: Terphenyl-d14	*1.04*		*mg/kg wet*	*1.333*		*78.3*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029211 - PREP_SVOC_S										
LCS (1029211-BS1)				Prepared: 07/16/10 Analyzed: 07/20/10						
2-Methylnaphthalene	2.46	0.100	mg/kg wet	3.333		73.7	24-125			
Acenaphthene	2.89	0.100	mg/kg wet	3.333		86.8	60-110			
Acenaphthylene	2.73	0.100	mg/kg wet	3.333		82.0	45-124			
Anthracene	2.19	0.100	mg/kg wet	3.333		65.7	46-117			
Benz(a)anthracene	2.97	0.100	mg/kg wet	3.333		89.1	43-139			
Benzo(a)pyrene	3.06	0.100	mg/kg wet	3.333		91.7	40-147			
Benzo(b)fluoranthene	3.00	0.100	mg/kg wet	3.333		90.1	40-157			
Benzo(g,h,i)perylene	3.18	0.100	mg/kg wet	3.333		95.5	37-159			
Benzo(k)fluoranthene	2.08	0.100	mg/kg wet	3.333		62.3	32-123			
Chrysene	2.86	0.100	mg/kg wet	3.333		85.9	38-136			
Dibenz(a,h)anthracene	2.82	0.100	mg/kg wet	3.333		84.7	20-181			
Fluoranthene	1.95	0.100	mg/kg wet	3.333		58.4	49-118			
Fluorene	2.81	0.100	mg/kg wet	3.333		84.2	52-129			
Indeno(1,2,3-cd)pyrene	2.61	0.100	mg/kg wet	3.333		78.3	40-160			
Naphthalene	2.72	0.100	mg/kg wet	3.333		81.6	39-118			
nanthrene	2.66	0.100	mg/kg wet	3.333		79.8	46-109			
ene	3.01	0.100	mg/kg wet	3.333		90.3	47-123			
Surrogate: Nitrobenzene-d5	*1.06*		*mg/kg wet*	*1.333*		*79.7*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.08*		*mg/kg wet*	*1.333*		*80.6*	*56-121*			
Surrogate: Terphenyl-d14	*1.09*		*mg/kg wet*	*1.333*		*82.0*	*40-140*			
LCS Dup (1029211-BSD1)				Prepared: 07/16/10 Analyzed: 07/20/10						
2-Methylnaphthalene	2.51	0.100	mg/kg wet	3.333		75.3	24-125	2.09	20	
Acenaphthene	3.14	0.100	mg/kg wet	3.333		94.1	60-110	7.99	13	
Acenaphthylene	2.90	0.100	mg/kg wet	3.333		87.0	45-124	5.91	20	
Anthracene	2.02	0.100	mg/kg wet	3.333		60.6	46-117	8.08	20	
Benz(a)anthracene	2.89	0.100	mg/kg wet	3.333		86.6	43-139	2.80	20	
Benzo(a)pyrene	3.36	0.100	mg/kg wet	3.333		101	40-147	9.41	20	
Benzo(b)fluoranthene	3.02	0.100	mg/kg wet	3.333		90.6	40-157	0.587	25	
Benzo(g,h,i)perylene	3.34	0.100	mg/kg wet	3.333		100	37-159	4.94	25	
Benzo(k)fluoranthene	2.13	0.100	mg/kg wet	3.333		63.8	32-123	2.40	40	
Chrysene	3.19	0.100	mg/kg wet	3.333		95.6	38-136	10.7	20	
Dibenz(a,h)anthracene	3.33	0.100	mg/kg wet	3.333		100	20-181	16.6	20	
Fluoranthene	1.76	0.100	mg/kg wet	3.333		52.8	49-118	10.2	20	
Fluorene	2.90	0.100	mg/kg wet	3.333		86.9	52-129	3.14	20	
Indeno(1,2,3-cd)pyrene	3.13	0.100	mg/kg wet	3.333		94.0	40-160	18.2	20	
Naphthalene	2.87	0.100	mg/kg wet	3.333		86.1	39-118	5.33	20	
Phenanthrene	2.51	0.100	mg/kg wet	3.333		75.3	46-109	5.70	20	
Pyrene	4.09	0.100	mg/kg wet	3.333		123	47-123	30.3	20	R
Surrogate: Nitrobenzene-d5	*1.16*		*mg/kg wet*	*1.333*		*86.9*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.14*		*mg/kg wet*	*1.333*		*85.4*	*56-121*			
Surrogate: Terphenyl-d14	*1.37*		*mg/kg wet*	*1.333*		*103*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030120 - PREP_SVOC_S										
Blank (1030120-BLK1)				Prepared: 07/21/10 Analyzed: 07/25/10						
2-Methylnaphthalene	BDL	0.100	mg/kg wet							
Acenaphthene	BDL	0.100	mg/kg wet							
Acenaphthylene	BDL	0.100	mg/kg wet							
Anthracene	BDL	0.100	mg/kg wet							
Benz(a)anthracene	BDL	0.100	mg/kg wet							
Benzo(a)pyrene	BDL	0.100	mg/kg wet							
Benzo(b)fluoranthene	BDL	0.100	mg/kg wet							
Benzo(g,h,i)perylene	BDL	0.100	mg/kg wet							
Benzo(k)fluoranthene	BDL	0.100	mg/kg wet							
Chrysene	BDL	0.100	mg/kg wet							
Dibenz(a,h)anthracene	BDL	0.100	mg/kg wet							
Fluoranthene	BDL	0.100	mg/kg wet							
Fluorene	BDL	0.100	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BDL	0.100	mg/kg wet							
Naphthalene	BDL	0.100	mg/kg wet							
[illegible]nanthrene	BDL	0.100	mg/kg wet							
[illegible]rene	BDL	0.100	mg/kg wet							
Surrogate: Nitrobenzene-d5	*1.63*		*mg/kg wet*	*1.333*		*122*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.27*		*mg/kg wet*	*1.333*		*95.5*	*56-121*			
Surrogate: Terphenyl-d14	*1.12*		*mg/kg wet*	*1.333*		*84.1*	*40-140*			
LCS (1030120-BS1)				Prepared: 07/21/10 Analyzed: 07/25/10						
2-Methylnaphthalene	1.67	0.100	mg/kg wet	3.333		50.0	24-125			
Acenaphthene	2.70	0.100	mg/kg wet	3.333		81.0	60-110			
Acenaphthylene	2.90	0.100	mg/kg wet	3.333		87.0	45-124			
Anthracene	2.40	0.100	mg/kg wet	3.333		71.9	46-117			
Benz(a)anthracene	2.92	0.100	mg/kg wet	3.333		87.6	43-139			
Benzo(a)pyrene	3.47	0.100	mg/kg wet	3.333		104	40-147			
Benzo(b)fluoranthene	3.12	0.100	mg/kg wet	3.333		93.5	40-157			
Benzo(g,h,i)perylene	3.36	0.100	mg/kg wet	3.333		101	37-159			
Benzo(k)fluoranthene	2.48	0.100	mg/kg wet	3.333		74.3	32-123			
Chrysene	2.94	0.100	mg/kg wet	3.333		88.3	38-136			
Dibenz(a,h)anthracene	3.40	0.100	mg/kg wet	3.333		102	20-181			
Fluoranthene	1.99	0.100	mg/kg wet	3.333		59.6	49-118			
Fluorene	2.82	0.100	mg/kg wet	3.333		84.6	52-129			
Indeno(1,2,3-cd)pyrene	3.01	0.100	mg/kg wet	3.333		90.3	40-160			
Naphthalene	2.95	0.100	mg/kg wet	3.333		88.5	39-118			
Phenanthrene	3.12	0.100	mg/kg wet	3.333		93.7	46-109			
Pyrene	2.85	0.100	mg/kg wet	3.333		85.5	47-123			
Surrogate: Nitrobenzene-d5	*1.63*		*mg/kg wet*	*1.333*		*122*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.13*		*mg/kg wet*	*1.333*		*85.0*	*56-121*			
Surrogate: Terphenyl-d14	*1.09*		*mg/kg wet*	*1.333*		*81.5*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030120 - PREP_SVOC_S										
LCS Dup (1030120-BSD1)				Prepared: 07/21/10 Analyzed: 07/25/10						
2-Methylnaphthalene	1.68	0.100	mg/kg wet	3.333		50.5	24-125	0.895	20	
Acenaphthene	2.99	0.100	mg/kg wet	3.333		89.7	60-110	10.2	13	
Acenaphthylene	3.21	0.100	mg/kg wet	3.333		96.2	45-124	10.1	20	
Anthracene	2.17	0.100	mg/kg wet	3.333		65.0	46-117	10.1	20	
Benz(a)anthracene	2.97	0.100	mg/kg wet	3.333		89.2	43-139	1.84	20	
Benzo(a)pyrene	3.79	0.100	mg/kg wet	3.333		114	40-147	8.90	20	
Benzo(b)fluoranthene	3.22	0.100	mg/kg wet	3.333		96.6	40-157	3.24	25	
Benzo(g,h,i)perylene	3.60	0.100	mg/kg wet	3.333		108	37-159	6.99	25	
Benzo(k)fluoranthene	2.72	0.100	mg/kg wet	3.333		81.7	32-123	9.57	40	
Chrysene	2.68	0.100	mg/kg wet	3.333		80.4	38-136	9.47	20	
Dibenz(a,h)anthracene	3.69	0.100	mg/kg wet	3.333		111	20-181	8.29	20	
Fluoranthene	1.90	0.100	mg/kg wet	3.333		57.1	49-118	4.30	20	
Fluorene	2.83	0.100	mg/kg wet	3.333		84.8	52-129	0.248	20	
Indeno(1,2,3-cd)pyrene	3.20	0.100	mg/kg wet	3.333		96.1	40-160	6.27	20	
Naphthalene	3.22	0.100	mg/kg wet	3.333		96.6	39-118	8.75	20	
enanthrene	2.94	0.100	mg/kg wet	3.333		88.3	46-109	6.03	20	
yrene	3.04	0.100	mg/kg wet	3.333		91.3	47-123	6.64	20	
Surrogate: Nitrobenzene-d5	*1.61*		*mg/kg wet*	*1.333*		*121*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.12*		*mg/kg wet*	*1.333*		*84.1*	*56-121*			
Surrogate: Terphenyl-d14	*1.00*		*mg/kg wet*	*1.333*		*75.2*	*40-140*			
Matrix Spike (1030120-MS1)		**Source: 10G0482-31**		Prepared: 07/21/10 Analyzed: 07/30/10						
2-Methylnaphthalene	3.23	0.124	mg/kg dry	4.128	ND	78.3	42-117			
Acenaphthene	3.32	0.124	mg/kg dry	4.128	ND	80.4	59-117			
Acenaphthylene	3.19	0.124	mg/kg dry	4.128	ND	77.3	41-130			
Anthracene	3.28	0.124	mg/kg dry	4.128	ND	79.4	40-121			
Benz(a)anthracene	3.54	0.124	mg/kg dry	4.128	ND	85.8	30-137			
Benzo(a)pyrene	4.23	0.124	mg/kg dry	4.128	ND	102	20-152			
Benzo(b)fluoranthene	3.88	0.124	mg/kg dry	4.128	ND	93.9	19-173			
Benzo(g,h,i)perylene	4.80	0.124	mg/kg dry	4.128	ND	116	40-139			
Benzo(k)fluoranthene	3.40	0.124	mg/kg dry	4.128	ND	82.4	10-154			
Chrysene	3.54	0.124	mg/kg dry	4.128	ND	85.8	36-125			
Dibenz(a,h)anthracene	5.13	0.124	mg/kg dry	4.128	ND	124	48-139			
Fluoranthene	2.74	0.124	mg/kg dry	4.128	ND	66.4	15-146			
Fluorene	2.13	0.124	mg/kg dry	4.128	ND	51.6	46-134			
Indeno(1,2,3-cd)pyrene	5.83	0.124	mg/kg dry	4.128	ND	141	44-144			
Naphthalene	3.25	0.124	mg/kg dry	4.128	ND	78.8	33-121			
Phenanthrene	3.19	0.124	mg/kg dry	4.128	ND	77.2	37-112			
Pyrene	4.17	0.124	mg/kg dry	4.128	ND	101	10-163			
Surrogate: Nitrobenzene-d5	*1.16*		*mg/kg dry*	*1.651*		*70.1*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.73*		*mg/kg dry*	*1.651*		*105*	*56-121*			
Surrogate: Terphenyl-d14	*0.841*		*mg/kg dry*	*1.651*		*51.0*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030120 - PREP_SVOC_S										
Matrix Spike Dup (1030120-MSD1)	**Source: 10G0482-31**			Prepared: 07/21/10 Analyzed: 07/30/10						
2-Methylnaphthalene	3.10	0.124	mg/kg dry	4.119	ND	75.2	42-117	4.24	36	
Acenaphthene	3.22	0.124	mg/kg dry	4.119	ND	78.2	59-117	3.02	24	
Acenaphthylene	3.18	0.124	mg/kg dry	4.119	ND	77.2	41-130	0.328	32	
Anthracene	3.14	0.124	mg/kg dry	4.119	ND	76.2	40-121	4.34	21	
Benz(a)anthracene	3.29	0.124	mg/kg dry	4.119	ND	79.9	30-137	7.28	14	
Benzo(a)pyrene	4.45	0.124	mg/kg dry	4.119	ND	108	20-152	5.21	25	
Benzo(b)fluoranthene	3.93	0.124	mg/kg dry	4.119	ND	95.5	19-173	1.46	29	
Benzo(g,h,i)perylene	4.85	0.124	mg/kg dry	4.119	ND	118	40-139	0.972	19	
Benzo(k)fluoranthene	3.76	0.124	mg/kg dry	4.119	ND	91.2	10-154	9.90	58	
Chrysene	3.29	0.124	mg/kg dry	4.119	ND	79.9	36-125	7.28	21	
Dibenz(a,h)anthracene	5.19	0.124	mg/kg dry	4.119	ND	126	48-139	1.22	24	
Fluoranthene	2.57	0.124	mg/kg dry	4.119	ND	62.5	15-146	6.24	40	
Fluorene	2.10	0.124	mg/kg dry	4.119	ND	51.0	46-134	1.43	29	
Indeno(1,2,3-cd)pyrene	5.80	0.124	mg/kg dry	4.119	ND	141	44-144	0.483	28	
Naphthalene	3.17	0.124	mg/kg dry	4.119	ND	77.0	33-121	2.56	15	
·nanthrene	3.05	0.124	mg/kg dry	4.119	ND	74.1	37-112	4.28	13	
,rene	4.30	0.124	mg/kg dry	4.119	ND	104	10-163	3.10	20	
Surrogate: Nitrobenzene-d5	*1.14*		*mg/kg dry*	*1.648*		*69.4*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.68*		*mg/kg dry*	*1.648*		*102*	*56-121*			
Surrogate: Terphenyl-d14	*0.850*		*mg/kg dry*	*1.648*		*51.6*	*40-140*			

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
R	RPD outside of accepted recovery limits.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
M	Matrix spike and/or matrix spike duplicate recovery outside of acceptance limits.
L	Laboratory control sample recovery outside of acceptance limits high, sample results are below detection limits. Sample data is still acceptable.
D	Data reported from a dilution
B-05	Contamination in blank is carryover from previous sample analyzed in same purge vessel. This contamination is not present in purge vessels that associated samples were purged in.
B	Analyte is found in the associated blank as well as in the sample.
A-01a	spike is outside of established QC limits.
A-01	Out high due to matrix interference

Sample preservation was met unless otherwise noted.

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10G0539	08/09/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 17th day of August, 2010.

Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Certified Lab Affidavit

For VAP certified laboratories to attest to certified data under OAC 3745-300-13(N) and OAC 3745-300-04(A). (Note that Ohio EPA is to receive a legible copy of the CL's affidavit. The entity that was provided the CL's submission under affidavit may retain the CL's affidavit original.)

State of Ohio)
) ss:
County of Hamilton)

I, Tracey Earle, being first duly sworn according to law, state that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen years old and competent to testify herein.

2. I am employed by ALS Laboratory Group as Quality Assurance Manager. I am authorized to submit this affidavit on behalf of the laboratory.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action Program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. ALS Laboratory Group performed analyses for Belmont Labs for a voluntary action at a property known as the Hudepohl Brewery Redevelopment Property located at 801 West Sixth Street Cincinnati, OH 45203.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

ALS Work Order #	Date of Document
1007241 (SW8270C PAH)	7/21/10

6. ALS Laboratory Group was a VAP certified laboratory pursuant to OAC 3745-300-04 when it performed the analyses referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 3745-300-04.

8. ALS Laboratory Group performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports identified under this affidavit are true, accurate and complete.

Further affiant sayeth naught.

Tracy Earle
Signature of Affiant

Sworn to before me and subscribed in my presence this 12 day of August, 2010.

Jan Wilcox
Notary Public, State of Ohio
My Commission Expires 07-15-2014

Jan Wilcox
Notary Public

Belmont Labs
The Environmental Service Company.

Monday, August 9, 2010

Bill Norris

ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241

TEL: (513) 771-2112

FAX (513) 782-6908

RE: Hudepohl Brewery Redevelopment Work Order: 10G0539

Belmont Labs received 24 sample(s) on 7/12/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green

Holly Green
Project Manager

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
roject: Hudepohl Brewery Redevelopment

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10G0539-01A	MW-2 (0-2)	7/6/2010 11:49:00AM	7/12/2010
10G0539-01B	MW-2 (0-2)	7/6/2010 11:49:00AM	7/12/2010
10G0539-02A	MW-2 (6-8)	7/6/2010 12:20:00PM	7/12/2010
10G0539-02B	MW-2 (6-8)	7/6/2010 12:20:00PM	7/12/2010
10G0539-03A	MW-2 (10-12)	7/6/2010 12:28:00PM	7/12/2010
10G0539-03B	MW-2 (10-12)	7/6/2010 12:28:00PM	7/12/2010
10G0539-04A	MW-2 (12-14)	7/6/2010 1:30:00PM	7/12/2010
10G0539-05A	B-1 (2-4)	7/7/2010 10:31:00AM	7/12/2010
10G0539-05B	B-1 (2-4)	7/7/2010 10:31:00AM	7/12/2010
10G0539-05C	B-1 (2-4)	7/7/2010 10:31:00AM	7/12/2010
10G0539-06A	B-1 (10-12)	7/7/2010 10:49:00AM	7/12/2010
10G0539-06B	B-1 (10-12)	7/7/2010 10:49:00AM	7/12/2010
10G0539-06C	B-1 (10-12)	7/7/2010 10:49:00AM	7/12/2010
10G0539-07A	B-2 (4-6)	7/7/2010 1:42:00PM	7/12/2010
10G0539-07B	B-2 (4-6)	7/7/2010 1:42:00PM	7/12/2010
10G0539-07C	B-2 (4-6)	7/7/2010 1:42:00PM	7/12/2010
10G0539-08A	B-2 (12.14)	7/7/2010 1:55:00PM	7/12/2010
10G0539-08B	B-2 (12.14)	7/7/2010 1:55:00PM	7/12/2010
10G0539-08C	B-2 (12.14)	7/7/2010 1:55:00PM	7/12/2010
10G0539-09A	B-3 (0-2)	7/7/2010 11:17:00AM	7/12/2010
10G0539-09B	B-3 (0-2)	7/7/2010 11:17:00AM	7/12/2010
10G0539-09C	B-3 (0-2)	7/7/2010 11:17:00AM	7/12/2010
10G0539-10A	B-3 (8-10)	7/7/2010 11:30:00AM	7/12/2010
10G0539-10B	B-3 (8-10)	7/7/2010 11:30:00AM	7/12/2010
10G0539-10C	B-3 (8-10)	7/7/2010 11:30:00AM	7/12/2010
10G0539-11A	TB-2	7/7/2010 12:00:00AM	7/12/2010
10G0539-11B	TB-2	7/7/2010 12:00:00AM	7/12/2010
10G0539-12A	TB-3	7/8/2010 12:00:00AM	7/12/2010
10G0539-12B	TB-3	7/8/2010 12:00:00AM	7/12/2010
10G0539-13A	EB-2	7/8/2010 11:30:00AM	7/12/2010
10G0539-13B	EB-2	7/8/2010 11:30:00AM	7/12/2010
10G0539-13C	EB-2	7/8/2010 11:30:00AM	7/12/2010
10G0539-13D	EB-2	7/8/2010 11:30:00AM	7/12/2010

Belmont Labs **Date:** 8/9/2010

CLIENT:	ATC Associates, Inc. Cincinnati Office	**Lab Order:**	10G0539
Project:	Hudepohl Brewery Redevelopment		

10G0539-13E	EB-2	7/8/2010 11:30:00AM	7/12/2010
10G0539-14A	B-4A (0-2)	7/8/2010 1:50:00PM	7/12/2010
10G0539-14B	B-4A (0-2)	7/8/2010 1:50:00PM	7/12/2010
10G0539-15A	B-4A (4-6)	7/8/2010 1:52:00PM	7/12/2010
10G0539-15B	B-4A (4-6)	7/8/2010 1:52:00PM	7/12/2010
10G0539-16A	B-4A (12-14)	7/8/2010 1:50:00PM	7/12/2010
10G0539-16B	B-4A (12-14)	7/8/2010 1:50:00PM	7/12/2010
10G0539-16C	B-4A (12-14)	7/8/2010 1:50:00PM	7/12/2010
10G0539-17A	B-8 (0-2)	7/8/2010 9:40:00AM	7/12/2010
10G0539-17B	B-8 (0-2)	7/8/2010 9:40:00AM	7/12/2010
10G0539-17C	B-8 (0-2)	7/8/2010 9:40:00AM	7/12/2010
10G0539-18A	B-9 (4-5)	7/8/2010 10:57:00AM	7/12/2010
10G0539-18B	B-9 (4-5)	7/8/2010 10:57:00AM	7/12/2010
10G0539-18C	B-9 (4-5)	7/8/2010 10:57:00AM	7/12/2010
10G0539-19A	B-10 (4-6)	7/8/2010 12:57:00PM	7/12/2010
10G0539-19B	B-10 (4-6)	7/8/2010 12:57:00PM	7/12/2010
10G0539-20A	B-10 (28-30)	7/8/2010 1:06:00PM	7/12/2010
10G0539-20B	B-10 (28-30)	7/8/2010 1:06:00PM	7/12/2010
10G0539-20C	B-10 (28-30)	7/8/2010 1:06:00PM	7/12/2010
10G0539-21A	B-11 (4-6)	7/8/2010 2:12:00PM	7/12/2010
10G0539-21B	B-11 (4-6)	7/8/2010 2:12:00PM	7/12/2010
10G0539-22A	B-12 (16-18)	7/8/2010 2:54:00PM	7/12/2010
10G0539-23A	B-12 (24-26)	7/8/2010 3:00:00PM	7/12/2010
10G0539-24A	D-6	7/7/2010 12:00:00AM	7/12/2010
10G0539-24B	D-6	7/7/2010 12:00:00AM	7/12/2010

A brief and minimal temperature exceedence occurred. It is our professional opinion that this slight exceedence had no effect on the analytical values and all data is valid.

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
.roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-01 **Collection Date:** 7/6/2010 11:49:00AM
Client Sample ID: MW-2 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	BDL	11.2		mg/kg dry	1	1029210	7/20/2010 12:19:00AM
C20 to C34	BDL	561		mg/kg dry	1	1029210	7/20/2010 12:19:00AM
Surrogate: o-Terphenyl	*39.4 %*			*28-107*		*1029210*	7/20/2010 12:19:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.57		mg/kg dry	0.99	1030097	7/19/2010 6:02:00PM
Surrogate: a,a,a-Trifluorotoluene	*104 %*			*60-155*		*1030097*	7/19/2010 6:02:00PM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,1,1-Trichloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,1,2-Trichloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,1-Dichloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,1-Dichloroethene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1-Dichloropropene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
-Dibromoethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,2-Dichloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,2-Dichloropropane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
1,3-Dichloropropane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
2,2-Dichloropropane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
2-Butanone	BDL	0.0202		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
2-Chlorotoluene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
2-Hexanone	BDL	0.0202		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
4-Chlorotoluene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
4-Methyl-2-pentanone	BDL	0.0202		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Acetone	BDL	0.0506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Acetonitrile	BDL	0.0405		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Acrolein	BDL	0.0202		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Acrylonitrile	BDL	0.0202		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Allyl chloride	BDL	0.0101		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Benzene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Bromobenzene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Bromochloromethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Bromodichloromethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Bromoform	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Bromomethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Carbon Disulfide	BDL	0.0202		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Carbon Tetrachloride	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Chlorobenzene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Chloroethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Chloroform	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
loromethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
s-1,2-Dichloroethene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-01 **Collection Date:** 7/6/2010 11:49:00AM
Client Sample ID: MW-2 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
cis-1,3-Dichloropropene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Dibromochloromethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Dibromomethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Dichlorodifluoromethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Ethylbenzene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Iodomethane	BDL	0.0101		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Methylene Chloride	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Methyl tert-Butyl Ether	BDL	0.0101		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
m,p-Xylene	BDL	0.0101		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
n-Hexane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
o-Xylene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Styrene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Tetrachloroethene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Toluene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
trans-1,2-Dichloroethene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
trans-1,3-Dichloropropene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Trichloroethene	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
›hlorofluoromethane	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
.nyl Chloride	BDL	0.00506		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Vinyl acetate	BDL	0.0101		mg/kg dry	0.9	1030107	7/18/2010 5:45:00PM
Surrogate: 4-Bromofluorobenzene		*81.1 %*		*41-140*		*1030107*	7/18/2010 5:45:00PM
Surrogate: Dibromofluoromethane		*84.1 %*		*33-129*		*1030107*	7/18/2010 5:45:00PM
Surrogate: Toluene-d8		*85.4 %*		*44-130*		*1030107*	7/18/2010 5:45:00PM
Surrogate: 1,2-Dichloroethane-d4		*82.8 %*		*31-123*		*1030107*	7/18/2010 5:45:00PM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**11.1**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Acenaphthene	**3.20**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Acenaphthylene	BDL	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Anthracene	**5.79**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Benz(a)anthracene	**7.61**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Benzo(a)pyrene	**7.36**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Benzo(b)fluoranthene	**5.26**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Benzo(g,h,i)perylene	**7.22**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Benzo(k)fluoranthene	**5.62**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Chrysene	**7.61**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Dibenz(a,h)anthracene	BDL	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Fluoranthene	**19.3**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Fluorene	**2.11**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
eno(1,2,3-cd)pyrene	**6.44**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
.aphthalene	**1.54**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-01 **Collection Date:** 7/6/2010 11:49:00AM
Client Sample ID: MW-2 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Phenanthrene	**18.9**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Pyrene	**16.8**	1.12		mg/kg dry	10	1029211	8/2/2010 1:44:00PM
Surrogate: Nitrobenzene-d5	*95.8 %*			*51-126*		*1029211*	8/2/2010 1:44:00PM
Surrogate: 2-Fluorobiphenyl	*82.0 %*			*56-121*		*1029211*	8/2/2010 1:44:00PM
Surrogate: Terphenyl-d14	*57.5 %*			*40-140*		*1029211*	8/2/2010 1:44:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-02 **Collection Date:** 7/6/2010 12:20:00PM
Client Sample ID: MW-2 (6-8) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.15		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**9.26**	1.15		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	**59.7**	1.15		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.478**	0.115		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**11.2**	1.15		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
ıd	**39.6**	1.15		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.77		mg/kg dry	1	1031001	7/25/2010 8:17:49PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	**0.214**	0.128		mg/kg dry	1	1031003	7/26/2010 12:42:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Aroclor 1221	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Aroclor 1232	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Aroclor 1242	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Aroclor 1248	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Aroclor 1254	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Aroclor 1260	BDL	0.0232		mg/kg dry	1	1030005	7/21/2010 2:33:00AM
Surrogate: Decachlorobiphenyl	*114 %*			*40-159*		*1030005*	7/21/2010 2:33:00AM
Surrogate: Tetrachloro-m-xylene	*79.0 %*			*47-125*		*1030005*	7/21/2010 2:33:00AM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**15.1**			% by Weight	1	1031050	7/25/2010 11:00:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-03 **Collection Date:** 7/6/2010 12:28:00PM
Client Sample ID: MW-2 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	BDL	11.0		mg/kg dry	1	1029210	7/20/2010 12:46:00AM
C20 to C34	BDL	550		mg/kg dry	1	1029210	7/20/2010 12:46:00AM
Surrogate: o-Terphenyl	*43.7 %*			*28-107*		*1029210*	7/20/2010 12:46:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.53		mg/kg dry	0.99	1030097	7/19/2010 6:35:00PM
Surrogate: a,a,a-Trifluorotoluene	*102 %*			*60-155*		*1030097*	7/19/2010 6:35:00PM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,1,1-Trichloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,1,2-Trichloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,1-Dichloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,1-Dichloroethene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
¹-Dichloropropene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
-Dibromoethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,2-Dichloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,2-Dichloropropane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
1,3-Dichloropropane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
2,2-Dichloropropane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
2-Butanone	BDL	0.0230		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
2-Chlorotoluene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
2-Hexanone	BDL	0.0230		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
4-Chlorotoluene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
4-Methyl-2-pentanone	BDL	0.0230		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Acetone	BDL	0.0575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Acetonitrile	BDL	0.0460		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Acrolein	BDL	0.0230		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Acrylonitrile	BDL	0.0230		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Allyl chloride	BDL	0.0115		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Benzene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Bromobenzene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Bromochloromethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Bromodichloromethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Bromoform	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Bromomethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Carbon Disulfide	BDL	0.0230		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Carbon Tetrachloride	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Chlorobenzene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Chloroethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Chloroform	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
¹oromethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
.s-1,2-Dichloroethene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-03 **Collection Date:** 7/6/2010 12:28:00PM
Client Sample ID: MW-2 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
cis-1,3-Dichloropropene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Dibromochloromethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Dibromomethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Dichlorodifluoromethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Ethylbenzene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Iodomethane	BDL	0.0115		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Methylene Chloride	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Methyl tert-Butyl Ether	BDL	0.0115		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
m,p-Xylene	BDL	0.0115		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
n-Hexane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
o-Xylene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Styrene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Tetrachloroethene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Toluene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
trans-1,2-Dichloroethene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
trans-1,3-Dichloropropene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Trichloroethene	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
chlorofluoromethane	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
inyl Chloride	BDL	0.00575		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Vinyl acetate	BDL	0.0115		mg/kg dry	1.03	1030107	7/18/2010 6:17:00PM
Surrogate: 4-Bromofluorobenzene		*80.0 %*		*41-140*		*1030107*	7/18/2010 6:17:00PM
Surrogate: Dibromofluoromethane		*84.5 %*		*33-129*		*1030107*	7/18/2010 6:17:00PM
Surrogate: Toluene-d8		*85.3 %*		*44-130*		*1030107*	7/18/2010 6:17:00PM
Surrogate: 1,2-Dichloroethane-d4		*82.5 %*		*31-123*		*1030107*	7/18/2010 6:17:00PM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**10.4**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Acenaphthene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Acenaphthylene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Anthracene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Benz(a)anthracene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Benzo(a)pyrene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Benzo(b)fluoranthene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Benzo(g,h,i)perylene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Benzo(k)fluoranthene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Chrysene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Dibenz(a,h)anthracene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Fluoranthene	**0.146**	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Fluorene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
leno(1,2,3-cd)pyrene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Naphthalene	BDL	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-03 **Collection Date:** 7/6/2010 12:28:00PM
Client Sample ID: MW-2 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Phenanthrene	**0.213**	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Pyrene	**0.173**	0.110		mg/kg dry	1	1029211	7/21/2010 8:07:00AM
Surrogate: Nitrobenzene-d5	*93.5 %*			*51-126*		*1029211*	7/21/2010 8:07:00AM
Surrogate: 2-Fluorobiphenyl	*91.9 %*			*56-121*		*1029211*	7/21/2010 8:07:00AM
Surrogate: Terphenyl-d14	*84.8 %*			*40-140*		*1029211*	7/21/2010 8:07:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-04 **Collection Date:** 7/6/2010 1:30:00PM
Client Sample ID: MW-2 (12-14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.19		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**12.0**	1.19		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	**74.7**	1.19		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.667**	0.119		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**17.3**	1.19		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
ıd	**14.3**	1.19		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.96		mg/kg dry	1	1031001	7/25/2010 8:38:24PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.113		mg/kg dry	1	1031003	7/26/2010 12:44:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Aroclor 1221	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Aroclor 1232	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Aroclor 1242	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Aroclor 1248	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Aroclor 1254	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Aroclor 1260	BDL	0.0234		mg/kg dry	1	1030005	7/21/2010 2:58:00AM
Surrogate: Decachlorobiphenyl	*134 %*			*40-159*		*1030005*	7/21/2010 2:58:00AM
Surrogate: Tetrachloro-m-xylene	*85.0 %*			*47-125*		*1030005*	7/21/2010 2:58:00AM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**16.0**			% by Weight	1	1031050	7/25/2010 11:00:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-05 **Collection Date:** 7/7/2010 10:31:00AM
Client Sample ID: B-1 (2-4) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		11.6		mg/kg dry	1	1030087	7/21/2010 10:43:00PM
C20 to C34	BDL		578		mg/kg dry	1	1030087	7/21/2010 10:43:00PM
Surrogate: o-Terphenyl		*33.7 %*			*28-107*		*1030087*	7/21/2010 10:43:00PM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.85		mg/kg dry	0.9986	1030097	7/19/2010 8:14:00PM
Surrogate: a,a,a-Trifluorotoluene		*107 %*			*60-155*		*1030097*	7/19/2010 8:14:00PM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.01		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**12.7**		1.01		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**106**		1.01		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.708**		0.101		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**15.6**		1.01		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**15.3**		1.01		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.05		mg/kg dry	1	1031001	7/25/2010 8:43:57PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.113		mg/kg dry	1	1031003	7/26/2010 12:46:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
Aroclor 1221	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
Aroclor 1232	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
Aroclor 1242	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
Aroclor 1248	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
Aroclor 1254	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
Aroclor 1260	BDL		0.0234		mg/kg dry	1	1030136	7/22/2010 3:50:00AM
rrogate: Decachlorobiphenyl		*126 %*			*40-159*		*1030136*	7/22/2010 3:50:00AM
.rrogate: Tetrachloro-m-xylene		*115 %*			*47-125*		*1030136*	7/22/2010 3:50:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-05 **Collection Date:** 7/7/2010 10:31:00AM
Client Sample ID: B-1 (2-4) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,1,1-Trichloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,1,2-Trichloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,1-Dichloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,1-Dichloroethene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,1-Dichloropropene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,2-Dibromoethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,2-Dichloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,2-Dichloropropane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
1,3-Dichloropropane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
2,2-Dichloropropane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
2-Butanone	BDL	0.0220		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
2-Chlorotoluene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
2-Hexanone	BDL	0.0220		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
hlorotoluene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Methyl-2-pentanone	BDL	0.0220		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Acetone	BDL	0.0551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Acetonitrile	BDL	0.0441		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Acrolein	BDL	0.0220		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Acrylonitrile	BDL	0.0220		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Allyl chloride	BDL	0.0110		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Benzene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Bromobenzene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Bromochloromethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Bromodichloromethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Bromoform	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Bromomethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Carbon Disulfide	BDL	0.0220		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Carbon Tetrachloride	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Chlorobenzene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Chloroethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Chloroform	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Chloromethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
cis-1,2-Dichloroethene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
cis-1,3-Dichloropropene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Dibromochloromethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Dibromomethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Dichlorodifluoromethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Ethylbenzene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Iodomethane	BDL	0.0110		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Methylene Chloride	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
thyl tert-Butyl Ether	BDL	0.0110		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
m,p-Xylene	BDL	0.0110		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-05 **Collection Date:** 7/7/2010 10:31:00AM
Client Sample ID: B-1 (2-4) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
o-Xylene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Styrene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Tetrachloroethene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Toluene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
trans-1,2-Dichloroethene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
trans-1,3-Dichloropropene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Trichloroethene	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Trichlorofluoromethane	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Vinyl Chloride	BDL	0.00551		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Vinyl acetate	BDL	0.0110		mg/kg dry	0.94	1030116	7/19/2010 5:59:00PM
Surrogate: 4-Bromofluorobenzene		*75.1 %*		*41-140*		*1030116*	7/19/2010 5:59:00PM
Surrogate: Dibromofluoromethane		*75.0 %*		*33-129*		*1030116*	7/19/2010 5:59:00PM
Surrogate: Toluene-d8		*82.1 %*		*44-130*		*1030116*	7/19/2010 5:59:00PM
Surrogate: 1,2-Dichloroethane-d4		*82.0 %*		*31-123*		*1030116*	7/19/2010 5:59:00PM
PMOIST		**D 2216**				**Analyst: AD**	
rcent Moisture	**14.7**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Acenaphthene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Acenaphthylene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Anthracene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Benz(a)anthracene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Benzo(a)pyrene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Benzo(b)fluoranthene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Benzo(g,h,i)perylene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Benzo(k)fluoranthene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Chrysene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Dibenz(a,h)anthracene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Fluoranthene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Fluorene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Naphthalene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Phenanthrene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Pyrene	BDL	0.117		mg/kg dry	1	1030120	7/28/2010 7:16:00AM
Surrogate: Nitrobenzene-d5		*76.3 %*		*51-126*		*1030120*	7/28/2010 7:16:00AM
Surrogate: 2-Fluorobiphenyl		*92.4 %*		*56-121*		*1030120*	7/28/2010 7:16:00AM
Surrogate: Terphenyl-d14		*95.2 %*		*40-140*		*1030120*	7/28/2010 7:16:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-06 **Collection Date:** 7/7/2010 10:49:00AM
Client Sample ID: B-1 (10-12) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		12.0		mg/kg dry	1	1030087	7/21/2010 11:38:00PM
C20 to C34	BDL		598		mg/kg dry	1	1030087	7/21/2010 11:38:00PM
Surrogate: o-Terphenyl		*36.5 %*			*28-107*		*1030087*	7/21/2010 11:38:00PM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.80		mg/kg dry	0.96	1030097	7/19/2010 8:47:00PM
Surrogate: a,a,a-Trifluorotoluene		*104 %*			*60-155*		*1030097*	7/19/2010 8:47:00PM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.08		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**11.5**		1.08		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**60.1**		1.08		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.686**		0.108		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**12.0**		1.08		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**11.7**		1.08		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.40		mg/kg dry	1	1031001	7/25/2010 8:49:28PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.115		mg/kg dry	1	1031003	7/26/2010 12:52:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
Aroclor 1221	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
Aroclor 1232	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
Aroclor 1242	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
Aroclor 1248	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
Aroclor 1254	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
Aroclor 1260	BDL		0.0241		mg/kg dry	1	1030136	7/22/2010 4:15:00AM
rogate: Decachlorobiphenyl		*143 %*			*40-159*		*1030136*	7/22/2010 4:15:00AM
Surrogate: Tetrachloro-m-xylene		*122 %*			*47-125*		*1030136*	7/22/2010 4:15:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-06 **Collection Date:** 7/7/2010 10:49:00AM
Client Sample ID: B-1 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,1,1-Trichloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,1,2-Trichloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,1-Dichloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,1-Dichloroethene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,1-Dichloropropene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,2-Dibromoethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,2-Dichloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,2-Dichloropropane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
1,3-Dichloropropane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
2,2-Dichloropropane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
2-Butanone	BDL	0.0242		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
2-Chlorotoluene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
2-Hexanone	BDL	0.0242		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
4-Chlorotoluene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
4-Methyl-2-pentanone	BDL	0.0242		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Acetone	BDL	0.0604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Acetonitrile	BDL	0.0483		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Acrolein	BDL	0.0242		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Acrylonitrile	BDL	0.0242		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Allyl chloride	BDL	0.0121		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Benzene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Bromobenzene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Bromochloromethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Bromodichloromethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Bromoform	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Bromomethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Carbon Disulfide	BDL	0.0242		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Carbon Tetrachloride	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Chlorobenzene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Chloroethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Chloroform	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Chloromethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
cis-1,2-Dichloroethene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
cis-1,3-Dichloropropene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Dibromochloromethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Dibromomethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Dichlorodifluoromethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Ethylbenzene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Iodomethane	BDL	0.0121		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Methylene Chloride	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Methyl tert-Butyl Ether	BDL	0.0121		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
m,p-Xylene	BDL	0.0121		mg/kg dry	1	1030116	7/19/2010 6:31:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-06 **Collection Date:** 7/7/2010 10:49:00AM
Client Sample ID: B-1 (10-12) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
o-Xylene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Styrene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Tetrachloroethene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Toluene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
trans-1,2-Dichloroethene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
trans-1,3-Dichloropropene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Trichloroethene	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Trichlorofluoromethane	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Vinyl Chloride	BDL	0.00604		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Vinyl acetate	BDL	0.0121		mg/kg dry	1	1030116	7/19/2010 6:31:00PM
Surrogate: 4-Bromofluorobenzene		*76.2 %*		*41-140*		*1030116*	7/19/2010 6:31:00PM
Surrogate: Dibromofluoromethane		*74.9 %*		*33-129*		*1030116*	7/19/2010 6:31:00PM
Surrogate: Toluene-d8		*82.3 %*		*44-130*		*1030116*	7/19/2010 6:31:00PM
Surrogate: 1,2-Dichloroethane-d4		*78.0 %*		*31-123*		*1030116*	7/19/2010 6:31:00PM
MOIST		**D 2216**				**Analyst: AD**	
rcent Moisture	**17.3**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Acenaphthene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Acenaphthylene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Anthracene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Benz(a)anthracene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Benzo(a)pyrene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Benzo(b)fluoranthene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Benzo(g,h,i)perylene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Benzo(k)fluoranthene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Chrysene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Dibenz(a,h)anthracene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Fluoranthene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Fluorene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Naphthalene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Phenanthrene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Pyrene	BDL	0.120		mg/kg dry	1	1030120	7/22/2010 1:44:00PM
Surrogate: Nitrobenzene-d5		*85.5 %*		*51-126*		*1030120*	7/22/2010 1:44:00PM
Surrogate: 2-Fluorobiphenyl		*84.2 %*		*56-121*		*1030120*	7/22/2010 1:44:00PM
Surrogate: Terphenyl-d14		*76.5 %*		*40-140*		*1030120*	7/22/2010 1:44:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-07 **Collection Date:** 7/7/2010 1:42:00PM
Client Sample ID: B-2 (4-6) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	**221**		10.7		mg/kg dry	1	1030137	7/23/2010 5:44:00AM
C20 to C34	**687**		536		mg/kg dry	1	1030137	7/23/2010 5:44:00AM
Surrogate: o-Terphenyl		*67.7 %*			*28-107*		*1030137*	7/23/2010 5:44:00AM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.34		mg/kg dry	0.99	1030097	7/19/2010 10:26:00PM
Surrogate: a,a,a-Trifluorotoluene		*103 %*			*60-155*		*1030097*	7/19/2010 10:26:00PM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.06		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**20.5**		1.06		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**150**		1.06		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**4.38**		0.106		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**17.7**		1.06		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**558**		1.06		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.28		mg/kg dry	1	1031001	7/25/2010 8:54:34PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	**0.709**		0.104		mg/kg dry	1	1031003	7/26/2010 12:55:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
Aroclor 1221	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
Aroclor 1232	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
Aroclor 1242	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
Aroclor 1248	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
Aroclor 1254	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
Aroclor 1260	BDL		0.0214		mg/kg dry	1	1030136	7/22/2010 9:14:00AM
rrogate: Decachlorobiphenyl		*110 %*			*40-159*		*1030136*	7/22/2010 9:14:00AM
rrogate: Tetrachloro-m-xylene		*73.0 %*			*47-125*		*1030136*	7/22/2010 9:14:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-07 **Collection Date:** 7/7/2010 1:42:00PM
Client Sample ID: B-2 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,1,1-Trichloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,1,2-Trichloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,1-Dichloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,1-Dichloroethene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,1-Dichloropropene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,2-Dibromoethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,2-Dichloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,2-Dichloropropane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
1,3-Dichloropropane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
2,2-Dichloropropane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
2-Butanone	BDL	0.0209		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
2-Chlorotoluene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
2-Hexanone	BDL	0.0209		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Chlorotoluene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Methyl-2-pentanone	BDL	0.0209		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Acetone	**0.0561**	0.0523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Acetonitrile	BDL	0.0418		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Acrolein	BDL	0.0209		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Acrylonitrile	BDL	0.0209		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Allyl chloride	BDL	0.0105		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Benzene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Bromobenzene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Bromochloromethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Bromodichloromethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Bromoform	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Bromomethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Carbon Disulfide	BDL	0.0209		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Carbon Tetrachloride	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Chlorobenzene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Chloroethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Chloroform	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Chloromethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
cis-1,2-Dichloroethene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
cis-1,3-Dichloropropene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Dibromochloromethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Dibromomethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Dichlorodifluoromethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Ethylbenzene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Iodomethane	BDL	0.0105		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Methylene Chloride	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
hyl tert-Butyl Ether	BDL	0.0105		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
...,p-Xylene	BDL	0.0105		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-07 **Collection Date:** 7/7/2010 1:42:00PM
Client Sample ID: B-2 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
o-Xylene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Styrene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Tetrachloroethene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Toluene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
trans-1,2-Dichloroethene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
trans-1,3-Dichloropropene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Trichloroethene	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Trichlorofluoromethane	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Vinyl Chloride	BDL	0.00523		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Vinyl acetate	BDL	0.0105		mg/kg dry	0.97	1030116	7/19/2010 8:42:00PM
Surrogate: 4-Bromofluorobenzene		*73.3 %*		*41-140*		*1030116*	7/19/2010 8:42:00PM
Surrogate: Dibromofluoromethane		*77.0 %*		*33-129*		*1030116*	7/19/2010 8:42:00PM
Surrogate: Toluene-d8		*81.1 %*		*44-130*		*1030116*	7/19/2010 8:42:00PM
Surrogate: 1,2-Dichloroethane-d4		*80.5 %*		*31-123*		*1030116*	7/19/2010 8:42:00PM
PMOIST		**D 2216**				**Analyst: AD**	
cent Moisture	7.24			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Acenaphthene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Acenaphthylene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Anthracene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Benz(a)anthracene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Benzo(a)pyrene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Benzo(b)fluoranthene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Benzo(g,h,i)perylene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Benzo(k)fluoranthene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Chrysene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Dibenz(a,h)anthracene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Fluoranthene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Fluorene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Indeno(1,2,3-cd)pyrene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Naphthalene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Phenanthrene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Pyrene	BDL	1.07		mg/kg dry	10	1030120	7/30/2010 1:04:00AM
Surrogate: Nitrobenzene-d5		*12.0 %*	*S-01*	*51-126*		*1030120*	7/30/2010 1:04:00AM
Surrogate: 2-Fluorobiphenyl		*16.0 %*	*S-01*	*56-121*		*1030120*	7/30/2010 1:04:00AM
Surrogate: Terphenyl-d14		*22.0 %*	*S-01*	*40-140*		*1030120*	7/30/2010 1:04:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-08 **Collection Date:** 7/7/2010 1:55:00PM
Client Sample ID: B-2 (12.14) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	**137**		12.8		mg/kg dry	1	1030137	7/23/2010 5:17:00AM
C20 to C34	**826**		641		mg/kg dry	1	1030137	7/23/2010 5:17:00AM
Surrogate: o-Terphenyl		*68.3 %*			*28-107*		*1030137*	7/23/2010 5:17:00AM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		6.36		mg/kg dry	0.99	1030097	7/19/2010 10:59:00PM
Surrogate: a,a,a-Trifluorotoluene		*101 %*			*60-155*		*1030097*	7/19/2010 10:59:00PM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.24		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**15.7**		1.24		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**116**		1.24		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.782**		0.124		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**20.5**		1.24		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**285**		1.24		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		6.18		mg/kg dry	1	1031001	7/25/2010 8:59:43PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	**2.82**		0.688	D	mg/kg dry	5	1031003	7/26/2010 1:04:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Aroclor 1221	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Aroclor 1232	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Aroclor 1242	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Aroclor 1248	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Aroclor 1254	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Aroclor 1260	BDL		0.0255		mg/kg dry	1	1030136	7/22/2010 8:49:00AM
Surrogate: Decachlorobiphenyl		*116 %*			*40-159*		*1030136*	7/22/2010 8:49:00AM
Surrogate: Tetrachloro-m-xylene		*85.0 %*			*47-125*		*1030136*	7/22/2010 8:49:00AM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-08 **Collection Date:** 7/7/2010 1:55:00PM
Client Sample ID: B-2 (12.14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,1,1-Trichloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,1,2-Trichloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,1-Dichloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,1-Dichloroethene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,1-Dichloropropene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,2-Dibromoethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,2-Dichloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,2-Dichloropropane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
1,3-Dichloropropane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
2,2-Dichloropropane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
2-Butanone	BDL	0.0254		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
2-Chlorotoluene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
2-Hexanone	BDL	0.0254		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
' Chlorotoluene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
iethyl-2-pentanone	BDL	0.0254		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Acetone	BDL	0.0636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Acetonitrile	BDL	0.0509		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Acrolein	BDL	0.0254		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Acrylonitrile	BDL	0.0254		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Allyl chloride	BDL	0.0127		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Benzene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Bromobenzene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Bromochloromethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Bromodichloromethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Bromoform	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Bromomethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Carbon Disulfide	BDL	0.0254		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Carbon Tetrachloride	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Chlorobenzene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Chloroethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Chloroform	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Chloromethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
cis-1,2-Dichloroethene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
cis-1,3-Dichloropropene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Dibromochloromethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Dibromomethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Dichlorodifluoromethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Ethylbenzene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Iodomethane	BDL	0.0127		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Methylene Chloride	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
'hyl tert-Butyl Ether	BDL	0.0127		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
-Xylene	BDL	0.0127		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-08 **Collection Date:** 7/7/2010 1:55:00PM
Client Sample ID: B-2 (12.14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
o-Xylene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Styrene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Tetrachloroethene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Toluene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
trans-1,2-Dichloroethene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
trans-1,3-Dichloropropene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Trichloroethene	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Trichlorofluoromethane	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Vinyl Chloride	BDL	0.00636		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Vinyl acetate	BDL	0.0127		mg/kg dry	0.99	1030116	7/19/2010 9:14:00PM
Surrogate: 4-Bromofluorobenzene		*72.5 %*		*41-140*		*1030116*	7/19/2010 9:14:00PM
Surrogate: Dibromofluoromethane		*76.8 %*		*33-129*		*1030116*	7/19/2010 9:14:00PM
Surrogate: Toluene-d8		*82.4 %*		*44-130*		*1030116*	7/19/2010 9:14:00PM
Surrogate: 1,2-Dichloroethane-d4		*83.7 %*		*31-123*		*1030116*	7/19/2010 9:14:00PM
MOIST		**D 2216**				**Analyst: AD**	
ercent Moisture	**22.2**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Acenaphthene	**0.182**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Acenaphthylene	BDL	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Anthracene	**0.334**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Benz(a)anthracene	**1.10**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Benzo(a)pyrene	**1.02**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Benzo(b)fluoranthene	**0.811**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Benzo(g,h,i)perylene	**0.581**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Benzo(k)fluoranthene	**0.765**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Chrysene	**1.15**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Dibenz(a,h)anthracene	**0.293**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Fluoranthene	**2.96**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Fluorene	**0.153**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Indeno(1,2,3-cd)pyrene	**0.628**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Naphthalene	**0.202**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Phenanthrene	**2.68**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Pyrene	**1.81**	0.127		mg/kg dry	1	1030120	7/30/2010 1:48:00AM
Surrogate: Nitrobenzene-d5		*77.7 %*		*51-126*		*1030120*	7/30/2010 1:48:00AM
Surrogate: 2-Fluorobiphenyl		*77.2 %*		*56-121*		*1030120*	7/30/2010 1:48:00AM
Surrogate: Terphenyl-d14		*80.0 %*		*40-140*		*1030120*	7/30/2010 1:48:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-09 **Collection Date:** 7/7/2010 11:17:00AM
Client Sample ID: B-3 (0-2) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		11.7		mg/kg dry	1	1030087	7/22/2010 12:06:00AM
C20 to C34	BDL		584		mg/kg dry	1	1030087	7/22/2010 12:06:00AM
Surrogate: o-Terphenyl		*34.8 %*			*28-107*		*1030087*	7/22/2010 12:06:00AM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.79		mg/kg dry	0.98	1030097	7/19/2010 11:32:00PM
Surrogate: a,a,a-Trifluorotoluene		*103 %*			*60-155*		*1030097*	7/19/2010 11:32:00PM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.11		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**10.7**		1.11		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**148**		1.11		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.585**		0.111		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**16.6**		1.11		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**116**		1.11		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.57		mg/kg dry	1	1031001	7/25/2010 9:04:19PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.122		mg/kg dry	1	1031003	7/26/2010 1:06:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
Aroclor 1221	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
Aroclor 1232	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
Aroclor 1242	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
Aroclor 1248	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
Aroclor 1254	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
Aroclor 1260	BDL		0.0236		mg/kg dry	1	1030136	7/22/2010 5:05:00AM
rrogate: Decachlorobiphenyl		*128 %*			*40-159*		*1030136*	7/22/2010 5:05:00AM
rrogate: Tetrachloro-m-xylene		*113 %*			*47-125*		*1030136*	7/22/2010 5:05:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-09 **Collection Date:** 7/7/2010 11:17:00AM
Client Sample ID: B-3 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,1,1-Trichloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,1,2-Trichloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,1-Dichloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,1-Dichloroethene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,1-Dichloropropene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,2-Dibromoethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,2-Dichloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,2-Dichloropropane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
1,3-Dichloropropane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
2,2-Dichloropropane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
2-Butanone	BDL	0.0234		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
2-Chlorotoluene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
2-Hexanone	BDL	0.0234		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Chlorotoluene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Methyl-2-pentanone	BDL	0.0234		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Acetone	BDL	0.0585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Acetonitrile	BDL	0.0468		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Acrolein	BDL	0.0234		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Acrylonitrile	BDL	0.0234		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Allyl chloride	BDL	0.0117		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Benzene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Bromobenzene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Bromochloromethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Bromodichloromethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Bromoform	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Bromomethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Carbon Disulfide	BDL	0.0234		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Carbon Tetrachloride	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Chlorobenzene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Chloroethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Chloroform	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Chloromethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
cis-1,2-Dichloroethene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
cis-1,3-Dichloropropene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Dibromochloromethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Dibromomethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Dichlorodifluoromethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Ethylbenzene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Iodomethane	BDL	0.0117		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Methylene Chloride	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Methyl tert-Butyl Ether	BDL	0.0117		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
m,p-Xylene	BDL	0.0117		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-09 **Collection Date:** 7/7/2010 11:17:00AM
Client Sample ID: B-3 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
o-Xylene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Styrene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Tetrachloroethene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Toluene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
trans-1,2-Dichloroethene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
trans-1,3-Dichloropropene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Trichloroethene	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Trichlorofluoromethane	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Vinyl Chloride	BDL	0.00585		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Vinyl acetate	BDL	0.0117		mg/kg dry	0.99	1030116	7/19/2010 7:37:00PM
Surrogate: 4-Bromofluorobenzene	*71.8 %*			*41-140*		*1030116*	7/19/2010 7:37:00PM
Surrogate: Dibromofluoromethane	*77.4 %*			*33-129*		*1030116*	7/19/2010 7:37:00PM
Surrogate: Toluene-d8	*81.3 %*			*44-130*		*1030116*	7/19/2010 7:37:00PM
Surrogate: 1,2-Dichloroethane-d4	*84.1 %*			*31-123*		*1030116*	7/19/2010 7:37:00PM
PMOIST	**D 2216**					**Analyst: AD**	
cent Moisture	**15.4**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Acenaphthene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Acenaphthylene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Anthracene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Benz(a)anthracene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Benzo(a)pyrene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Benzo(b)fluoranthene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Benzo(g,h,i)perylene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Benzo(k)fluoranthene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Chrysene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Dibenz(a,h)anthracene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Fluoranthene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Fluorene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Naphthalene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Phenanthrene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Pyrene	BDL	0.118		mg/kg dry	1	1030120	7/30/2010 2:30:00AM
Surrogate: Nitrobenzene-d5	*83.9 %*			*51-126*		*1030120*	7/30/2010 2:30:00AM
Surrogate: 2-Fluorobiphenyl	*91.5 %*			*56-121*		*1030120*	7/30/2010 2:30:00AM
Surrogate: Terphenyl-d14	*107 %*			*40-140*		*1030120*	7/30/2010 2:30:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-10 **Collection Date:** 7/7/2010 11:30:00AM
Client Sample ID: B-3 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	12.0		mg/kg dry	1	1030137	7/23/2010 2:01:00AM
C20 to C34	BDL	599		mg/kg dry	1	1030137	7/23/2010 2:01:00AM
Surrogate: o-Terphenyl	*64.8 %*			*28-107*		*1030137*	7/23/2010 2:01:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.76		mg/kg dry	0.96	1030097	7/20/2010 12:05:00AM
Surrogate: a,a,a-Trifluorotoluene	*105 %*			*60-155*		*1030097*	7/20/2010 12:05:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.03		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**11.6**	1.03		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
arium	**73.3**	1.03		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.705**	0.103		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**13.2**	1.03		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**12.5**	1.03		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.17		mg/kg dry	1	1031001	7/25/2010 9:09:26PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.113		mg/kg dry	1	1031003	7/26/2010 1:09:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
Aroclor 1221	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
Aroclor 1232	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
Aroclor 1242	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
Aroclor 1248	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
Aroclor 1254	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
Aroclor 1260	BDL	0.0239		mg/kg dry	1	1030136	7/22/2010 5:30:00AM
rrogate: Decachlorobiphenyl	*129 %*			*40-159*		*1030136*	7/22/2010 5:30:00AM
Surrogate: Tetrachloro-m-xylene	*118 %*			*47-125*		*1030136*	7/22/2010 5:30:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-10 **Collection Date:** 7/7/2010 11:30:00AM
Client Sample ID: B-3 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,1,1-Trichloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,1,2-Trichloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,1-Dichloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,1-Dichloroethene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,1-Dichloropropene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,2-Dibromoethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,2-Dichloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,2-Dichloropropane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
1,3-Dichloropropane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
2,2-Dichloropropane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
2-Butanone	BDL	0.0235		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
2-Chlorotoluene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
2-Hexanone	BDL	0.0235		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
4-Chlorotoluene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
4-Methyl-2-pentanone	BDL	0.0235		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Acetone	BDL	0.0588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Acetonitrile	BDL	0.0471		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Acrolein	BDL	0.0235		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Acrylonitrile	BDL	0.0235		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Allyl chloride	BDL	0.0118		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Benzene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Bromobenzene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Bromochloromethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Bromodichloromethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Bromoform	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Bromomethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Carbon Disulfide	BDL	0.0235		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Carbon Tetrachloride	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Chlorobenzene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Chloroethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Chloroform	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Chloromethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
cis-1,2-Dichloroethene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
cis-1,3-Dichloropropene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Dibromochloromethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Dibromomethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Dichlorodifluoromethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Ethylbenzene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Iodomethane	BDL	0.0118		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Methylene Chloride	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Methyl tert-Butyl Ether	BDL	0.0118		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
m,p-Xylene	BDL	0.0118		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-10 **Collection Date:** 7/7/2010 11:30:00AM
Client Sample ID: B-3 (8-10) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
o-Xylene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Styrene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Tetrachloroethene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Toluene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
trans-1,2-Dichloroethene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
trans-1,3-Dichloropropene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Trichloroethene	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Trichlorofluoromethane	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Vinyl Chloride	BDL	0.00588		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Vinyl acetate	BDL	0.0118		mg/kg dry	0.98	1030116	7/19/2010 8:09:00PM
Surrogate: 4-Bromofluorobenzene		*73.5 %*		*41-140*		*1030116*	7/19/2010 8:09:00PM
Surrogate: Dibromofluoromethane		*75.1 %*		*33-129*		*1030116*	7/19/2010 8:09:00PM
Surrogate: Toluene-d8		*80.6 %*		*44-130*		*1030116*	7/19/2010 8:09:00PM
Surrogate: 1,2-Dichloroethane-d4		*80.8 %*		*31-123*		*1030116*	7/19/2010 8:09:00PM
MOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**16.7**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: MBG**	
2-Methylnaphthalene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Acenaphthene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Acenaphthylene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Anthracene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Benz(a)anthracene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Benzo(a)pyrene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Benzo(b)fluoranthene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Benzo(g,h,i)perylene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Benzo(k)fluoranthene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Chrysene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Dibenz(a,h)anthracene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Fluoranthene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Fluorene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Naphthalene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Phenanthrene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Pyrene	BDL	0.119		mg/kg dry	1	1030120	7/22/2010 2:29:00PM
Surrogate: Nitrobenzene-d5		*84.3 %*		*51-126*		*1030120*	7/22/2010 2:29:00PM
Surrogate: 2-Fluorobiphenyl		*74.9 %*		*56-121*		*1030120*	7/22/2010 2:29:00PM
Surrogate: Terphenyl-d14		*82.5 %*		*40-140*		*1030120*	7/22/2010 2:29:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-11 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: TB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260_TB	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
2-Butanone	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
2-Hexanone	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Methyl-2-pentanone	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
etone	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Acetonitrile	BDL	40.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Acrolein	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Allyl chloride	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Benzene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Bromobenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Bromoform	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Bromomethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Chloroethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Chloroform	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Chloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Dibromomethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Iodomethane	BDL	10.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1030249	7/20/2010 2:57:00PM
-Xylene	BDL	10.0		ug/L	1	1030249	7/20/2010 2:57:00PM
-Butylbenzene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-11 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: TB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
o-Xylene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Styrene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Toluene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Trichloroethene	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1030249	7/20/2010 2:57:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1030249	7/20/2010 2:57:00PM
Surrogate: 4-Bromofluorobenzene	*112 %*			*41-140*		*1030249*	7/20/2010 2:57:00PM
Surrogate: Dibromofluoromethane	*118 %*			*34-158*		*1030249*	7/20/2010 2:57:00PM
Surrogate: Toluene-d8	*125 %*			*47-147*		*1030249*	7/20/2010 2:57:00PM
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*29-163*		*1030249*	7/20/2010 2:57:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-12 **Collection Date:** 7/8/2010 12:00:00AM
Client Sample ID: TB-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260_TB	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
2-Butanone	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
2-Hexanone	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Methyl-2-pentanone	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
etone	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Acetonitrile	BDL	40.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Acrolein	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Allyl chloride	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Benzene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Bromobenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Bromoform	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Bromomethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Chloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Chloroform	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Chloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Dibromomethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Iodomethane	BDL	10.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1030282	7/21/2010 5:48:00PM
p-Xylene	BDL	10.0		ug/L	1	1030282	7/21/2010 5:48:00PM
-Butylbenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-12 **Collection Date:** 7/8/2010 12:00:00AM
Client Sample ID: TB-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
o-Xylene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Styrene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Toluene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Trichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1030282	7/21/2010 5:48:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1030282	7/21/2010 5:48:00PM
Surrogate: 4-Bromofluorobenzene	*111 %*			*41-140*		*1030282*	7/21/2010 5:48:00PM
Surrogate: Dibromofluoromethane	*120 %*			*34-158*		*1030282*	7/21/2010 5:48:00PM
Surrogate: Toluene-d8	*122 %*			*47-147*		*1030282*	7/21/2010 5:48:00PM
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*29-163*		*1030282*	7/21/2010 5:48:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-13 **Collection Date:** 7/8/2010 11:30:00AM
Client Sample ID: EB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	0.000500		mg/L	1	1030149	7/21/2010 7:20:14PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:20:14PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:20:14PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	BDL	0.000500		mg/L	1	1030149	7/21/2010 7:20:14PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:20:14PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
ead	BDL	0.00500		mg/L	1	1030149	7/21/2010 7:20:14PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	0.0100		mg/L	1	1030149	7/21/2010 7:20:14PM
HG	**SW 7470A**					**Analyst: KC**	
Mercury	BDL	0.000200		mg/L	1	1031043	7/26/2010 1:41:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Aroclor 1221	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Aroclor 1232	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Aroclor 1242	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Aroclor 1248	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Aroclor 1254	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Aroclor 1260	BDL	0.500		ug/L	1	1029132	7/17/2010 9:22:00PM
Surrogate: Decachlorobiphenyl		*85.0 %*		*36-157*		*1029132*	7/17/2010 9:22:00PM
Surrogate: Tetrachloro-m-xylene		*83.0 %*		*28-127*		*1029132*	7/17/2010 9:22:00PM
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
-Dichloropropene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
,2-Dibromoethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-13 **Collection Date:** 7/8/2010 11:30:00AM
Client Sample ID: EB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
1,2-Dichloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
2-Butanone	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
2-Hexanone	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Acetone	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Acetonitrile	BDL	40.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Acrolein	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Allyl chloride	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Benzene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Bromobenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
omochloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
omodichloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Bromoform	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Bromomethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Chloroethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Chloroform	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Chloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Dibromomethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Iodomethane	BDL	10.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1030282	7/21/2010 6:28:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1030282	7/21/2010 6:28:00PM
n-Hexane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
o-Xylene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Styrene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Toluene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
ichloroethene	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
richlorofluoromethane	BDL	5.00		ug/L	1	1030282	7/21/2010 6:28:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1030282	7/21/2010 6:28:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-13 **Collection Date:** 7/8/2010 11:30:00AM
Client Sample ID: EB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Vinyl acetate	BDL	10.0		ug/L	1	1030282	7/21/2010 6:28:00PM
Surrogate: 4-Bromofluorobenzene	*111 %*			*41-140*		*1030282*	7/21/2010 6:28:00PM
Surrogate: Dibromofluoromethane	*121 %*			*34-158*		*1030282*	7/21/2010 6:28:00PM
Surrogate: Toluene-d8	*115 %*			*47-147*		*1030282*	7/21/2010 6:28:00PM
Surrogate: 1,2-Dichloroethane-d4	*117 %*			*29-163*		*1030282*	7/21/2010 6:28:00PM
SW8270C						**Analyst: PPC**	
Benzo(k)fluoranthene	BDL	0.16		µg/L	1	2374	7/16/2010 12:00:00AM
1-Methylnaphthalene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
2-Methylnaphthalene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Acenaphthene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Acenaphthylene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Benzo(a)anthracene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Pyrene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Benzo(g,h,i)perylene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Anthracene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
bazole	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
rysene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Dibenzo(a,h)anthracene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Dibenzofuran	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Fluoranthene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Benzo(b)fluoranthene	BDL	0.11		µg/L	1	2374	7/16/2010 12:00:00AM
Naphthalene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Benzo(a)pyrene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Phenanthrene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM
Fluorene	BDL	0.1		µg/L	1	2374	7/16/2010 12:00:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-14 **Collection Date:** 7/8/2010 1:50:00PM
Client Sample ID: B-4A (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.70		mg/kg dry	0.98	1030097	7/20/2010 12:38:00AM
Surrogate: a,a,a-Trifluorotoluene	*105 %*			*60-155*		*1030097*	7/20/2010 12:38:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,1,1-Trichloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,1,2-Trichloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,1-Dichloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,1-Dichloroethene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,1-Dichloropropene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,2-Dibromoethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,2-Dichloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,2-Dichloropropane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
1,3-Dichloropropane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
-Dichloropropane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
-Butanone	BDL	0.0228		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
2-Chlorotoluene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
2-Hexanone	BDL	0.0228		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
4-Chlorotoluene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
4-Methyl-2-pentanone	BDL	0.0228		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Acetone	BDL	0.0570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Acetonitrile	BDL	0.0456		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Acrolein	BDL	0.0228		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Acrylonitrile	BDL	0.0228		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Allyl chloride	BDL	0.0114		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Benzene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Bromobenzene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Bromochloromethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Bromodichloromethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Bromoform	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Bromomethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Carbon Disulfide	BDL	0.0228		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Carbon Tetrachloride	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Chlorobenzene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Chloroethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Chloroform	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Chloromethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
cis-1,2-Dichloroethene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
cis-1,3-Dichloropropene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Dibromochloromethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
ibromomethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
chlorodifluoromethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Ethylbenzene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-14 **Collection Date:** 7/8/2010 1:50:00PM
Client Sample ID: B-4A (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Iodomethane	BDL	0.0114		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Methylene Chloride	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Methyl tert-Butyl Ether	BDL	0.0114		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
m,p-Xylene	BDL	0.0114		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
n-Hexane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
o-Xylene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Styrene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Tetrachloroethene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Toluene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
trans-1,2-Dichloroethene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
trans-1,3-Dichloropropene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Trichloroethene	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Trichlorofluoromethane	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Vinyl Chloride	BDL	0.00570		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Vinyl acetate	BDL	0.0114		mg/kg dry	0.98	1030319	7/21/2010 3:19:00AM
Surrogate: 4-Bromofluorobenzene		*91.8 %*		*41-140*		*1030319*	7/21/2010 3:19:00AM
Surrogate: Dibromofluoromethane		*76.3 %*		*33-129*		*1030319*	7/21/2010 3:19:00AM
ogate: Toluene-d8		*90.6 %*		*44-130*		*1030319*	7/21/2010 3:19:00AM
Surrogate: 1,2-Dichloroethane-d4		*75.5 %*		*31-123*		*1030319*	7/21/2010 3:19:00AM

PMOIST **D 2216** **Analyst: AD**

Percent Moisture	**14.0**			% by Weight	1	1031050	7/25/2010 11:00:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-15 **Collection Date:** 7/8/2010 1:52:00PM
Client Sample ID: B-4A (4-6) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		11.2		mg/kg dry	1	1030137	7/23/2010 1:33:00AM
C20 to C34	BDL		562		mg/kg dry	1	1030137	7/23/2010 1:33:00AM
Surrogate: o-Terphenyl		*85.7 %*			*28-107*		*1030137*	7/23/2010 1:33:00AM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.23		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**9.91**		1.23		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**48.3**		1.23		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.541**		0.123		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**11.1**		1.23		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**13.3**		1.23		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		6.16		mg/kg dry	1	1031001	7/25/2010 9:14:44PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.121		mg/kg dry	1	1031003	7/26/2010 1:11:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Aroclor 1221	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Aroclor 1232	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Aroclor 1242	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Aroclor 1248	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Aroclor 1254	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Aroclor 1260	BDL		0.0226		mg/kg dry	1	1030136	7/22/2010 5:55:00AM
Surrogate: Decachlorobiphenyl		*130 %*			*40-159*		*1030136*	7/22/2010 5:55:00AM
Surrogate: Tetrachloro-m-xylene		*108 %*			*47-125*		*1030136*	7/22/2010 5:55:00AM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**11.7**				% by Weight	1	1031050	7/25/2010 11:00:00AM

Belmont Labs **Date:** 8/9/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-15 **Collection Date:** 7/8/2010 1:52:00PM
Client Sample ID: B-4A (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Acenaphthene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Acenaphthylene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Anthracene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Benz(a)anthracene	**0.394**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Benzo(a)pyrene	**0.350**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Benzo(b)fluoranthene	**0.276**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Benzo(g,h,i)perylene	**0.283**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Benzo(k)fluoranthene	**0.350**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Chrysene	**0.358**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Dibenz(a,h)anthracene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Fluoranthene	**0.965**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Fluorene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Indeno(1,2,3-cd)pyrene	**0.278**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Naphthalene	BDL	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Phenanthrene	**0.792**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
rene	**0.701**	0.113		mg/kg dry	1	1030217	7/30/2010 3:13:00AM
Surrogate: Nitrobenzene-d5	*67.5 %*			*51-126*		*1030217*	7/30/2010 3:13:00AM
Surrogate: 2-Fluorobiphenyl	*76.7 %*			*56-121*		*1030217*	7/30/2010 3:13:00AM
Surrogate: Terphenyl-d14	*74.0 %*			*40-140*		*1030217*	7/30/2010 3:13:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-16 **Collection Date:** 7/8/2010 1:50:00PM
Client Sample ID: B-4A (12-14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	10.7		mg/kg dry	1	1030137	7/23/2010 2:29:00AM
C20 to C34	BDL	533		mg/kg dry	1	1030137	7/23/2010 2:29:00AM
Surrogate: o-Terphenyl	*68.6 %*			*28-107*		*1030137*	7/23/2010 2:29:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.33		mg/kg dry	0.9956	1030097	7/20/2010 1:11:00AM
Surrogate: a,a,a-Trifluorotoluene	*104 %*			*60-155*		*1030097*	7/20/2010 1:11:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	0.991		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**7.07**	0.991		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	**25.3**	0.991		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.350**	0.0991		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**5.62**	0.991		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**6.43**	0.991		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	4.96		mg/kg dry	1	1031001	7/25/2010 9:19:52PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.100		mg/kg dry	1	1031003	7/26/2010 1:13:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Aroclor 1221	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Aroclor 1232	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Aroclor 1242	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Aroclor 1248	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Aroclor 1254	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Aroclor 1260	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 6:19:00AM
Surrogate: Decachlorobiphenyl	*125 %*			*40-159*		*1030136*	7/22/2010 6:19:00AM
Surrogate: Tetrachloro-m-xylene	*114 %*			*47-125*		*1030136*	7/22/2010 6:19:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-16 **Collection Date:** 7/8/2010 1:50:00PM
Client Sample ID: B-4A (12-14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,1,1-Trichloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,1,2-Trichloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,1-Dichloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,1-Dichloroethene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,1-Dichloropropene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,2-Dibromoethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,2-Dichloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,2-Dichloropropane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
1,3-Dichloropropane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
2,2-Dichloropropane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
2-Butanone	BDL	0.0206		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
2-Chlorotoluene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
2-Hexanone	BDL	0.0206		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Chlorotoluene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Methyl-2-pentanone	BDL	0.0206		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Acetone	BDL	0.0514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Acetonitrile	BDL	0.0411		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Acrolein	BDL	0.0206		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Acrylonitrile	BDL	0.0206		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Allyl chloride	BDL	0.0103		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Benzene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Bromobenzene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Bromochloromethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Bromodichloromethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Bromoform	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Bromomethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Carbon Disulfide	BDL	0.0206		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Carbon Tetrachloride	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Chlorobenzene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Chloroethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Chloroform	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Chloromethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
cis-1,2-Dichloroethene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
cis-1,3-Dichloropropene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Dibromochloromethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Dibromomethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Dichlorodifluoromethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Ethylbenzene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Iodomethane	BDL	0.0103		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Methylene Chloride	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Methyl tert-Butyl Ether	BDL	0.0103		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
m,p-Xylene	BDL	0.0103		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-16 **Collection Date:** 7/8/2010 1:50:00PM
Client Sample ID: B-4A (12-14) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
o-Xylene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Styrene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Tetrachloroethene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Toluene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
trans-1,2-Dichloroethene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
trans-1,3-Dichloropropene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Trichloroethene	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Trichlorofluoromethane	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Vinyl Chloride	BDL	0.00514		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Vinyl acetate	BDL	0.0103		mg/kg dry	0.96	1030319	7/21/2010 4:57:00AM
Surrogate: 4-Bromofluorobenzene		*91.3 %*		*41-140*		*1030319*	7/21/2010 4:57:00AM
Surrogate: Dibromofluoromethane		*75.4 %*		*33-129*		*1030319*	7/21/2010 4:57:00AM
Surrogate: Toluene-d8		*89.9 %*		*44-130*		*1030319*	7/21/2010 4:57:00AM
Surrogate: 1,2-Dichloroethane-d4		*77.5 %*		*31-123*		*1030319*	7/21/2010 4:57:00AM
MOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**6.59**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Acenaphthene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Acenaphthylene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Anthracene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Benz(a)anthracene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Benzo(a)pyrene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Benzo(b)fluoranthene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Benzo(g,h,i)perylene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Benzo(k)fluoranthene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Chrysene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Dibenz(a,h)anthracene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Fluoranthene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Fluorene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Naphthalene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Phenanthrene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Pyrene	BDL	0.106		mg/kg dry	1	1030217	7/29/2010 8:44:00PM
Surrogate: Nitrobenzene-d5		*64.1 %*		*51-126*		*1030217*	7/29/2010 8:44:00PM
Surrogate: 2-Fluorobiphenyl		*78.9 %*		*56-121*		*1030217*	7/29/2010 8:44:00PM
Surrogate: Terphenyl-d14		*73.2 %*		*40-140*		*1030217*	7/29/2010 8:44:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-17 **Collection Date:** 7/8/2010 9:40:00AM
Client Sample ID: B-8 (0-2) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	BDL		11.5		mg/kg dry	1	1030137	7/23/2010 2:57:00AM
C20 to C34	BDL		575		mg/kg dry	1	1030137	7/23/2010 2:57:00AM
Surrogate: o-Terphenyl		*61.8 %*			*28-107*		*1030137*	7/23/2010 2:57:00AM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.65		mg/kg dry	0.98	1030097	7/20/2010 1:44:00AM
Surrogate: a,a,a-Trifluorotoluene		*103 %*			*60-155*		*1030097*	7/20/2010 1:44:00AM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.09		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**14.4**		1.09		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
ium	**57.6**		1.09		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.721**		0.109		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**13.9**		1.09		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**23.2**		1.09		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.44		mg/kg dry	1	1031001	7/25/2010 9:24:57PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	BDL		0.113		mg/kg dry	1	1031003	7/26/2010 1:15:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
Aroclor 1221	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
Aroclor 1232	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
Aroclor 1242	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
Aroclor 1248	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
Aroclor 1254	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
Aroclor 1260	BDL		0.0230		mg/kg dry	1	1030136	7/22/2010 6:44:00AM
ogate: Decachlorobiphenyl		*131 %*			*40-159*		*1030136*	7/22/2010 6:44:00AM
Surrogate: Tetrachloro-m-xylene		*120 %*			*47-125*		*1030136*	7/22/2010 6:44:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-17 **Collection Date:** 7/8/2010 9:40:00AM
Client Sample ID: B-8 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,1,1-Trichloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,1,2,2-Tetrachloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,1,2-Trichloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,1-Dichloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,1-Dichloroethene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,1-Dichloropropene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,2-Dibromoethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,2-Dichloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,2-Dichloropropane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
1,3-Dichloropropane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
2,2-Dichloropropane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
2-Butanone	BDL	0.0411		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
2-Chlorotoluene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
2-Hexanone	BDL	0.0411		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Chlorotoluene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Methyl-2-pentanone	BDL	0.0411		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Acetone	BDL	0.103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Acetonitrile	BDL	0.0822		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Acrolein	BDL	0.0411		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Acrylonitrile	BDL	0.0411		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Allyl chloride	BDL	0.0205		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Benzene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Bromobenzene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Bromochloromethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Bromodichloromethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Bromoform	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Bromomethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Carbon Disulfide	BDL	0.0411		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Carbon Tetrachloride	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Chlorobenzene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Chloroethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Chloroform	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Chloromethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
cis-1,2-Dichloroethene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
cis-1,3-Dichloropropene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Dibromochloromethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Dibromomethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Dichlorodifluoromethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Ethylbenzene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Iodomethane	BDL	0.0205		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Methylene Chloride	**0.0103**	0.0103	O-01, B	mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Methyl tert-Butyl Ether	BDL	0.0205		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
m,p-Xylene	BDL	0.0205		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-17 **Collection Date:** 7/8/2010 9:40:00AM
Client Sample ID: B-8 (0-2) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
o-Xylene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Styrene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Tetrachloroethene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Toluene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
trans-1,2-Dichloroethene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
trans-1,3-Dichloropropene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Trichloroethene	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Trichlorofluoromethane	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Vinyl Chloride	BDL	0.0103		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Vinyl acetate	BDL	0.0205		mg/kg dry	1.78	1031011	7/21/2010 4:17:00PM
Surrogate: 4-Bromofluorobenzene	*80.8 %*			*41-140*		*1031011*	7/21/2010 4:17:00PM
Surrogate: Dibromofluoromethane	*76.2 %*			*33-129*		*1031011*	7/21/2010 4:17:00PM
Surrogate: Toluene-d8	*86.0 %*			*44-130*		*1031011*	7/21/2010 4:17:00PM
Surrogate: 1,2-Dichloroethane-d4	*82.7 %*			*31-123*		*1031011*	7/21/2010 4:17:00PM
PMOIST	**D 2216**					**Analyst: AD**	
rcent Moisture	**13.3**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Acenaphthene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Acenaphthylene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Anthracene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Benz(a)anthracene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Benzo(a)pyrene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Benzo(b)fluoranthene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Benzo(g,h,i)perylene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Benzo(k)fluoranthene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Chrysene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Dibenz(a,h)anthracene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Fluoranthene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Fluorene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Naphthalene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Phenanthrene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Pyrene	BDL	0.115		mg/kg dry	1	1030217	7/30/2010 3:56:00AM
Surrogate: Nitrobenzene-d5	*67.0 %*			*51-126*		*1030217*	7/30/2010 3:56:00AM
Surrogate: 2-Fluorobiphenyl	*77.4 %*			*56-121*		*1030217*	7/30/2010 3:56:00AM
Surrogate: Terphenyl-d14	*74.1 %*			*40-140*		*1030217*	7/30/2010 3:56:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-18 **Collection Date:** 7/8/2010 10:57:00AM
Client Sample ID: B-9 (4-5) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	10.8		mg/kg dry	1	1030137	7/23/2010 3:53:00AM
C20 to C34	BDL	540		mg/kg dry	1	1030137	7/23/2010 3:53:00AM
Surrogate: o-Terphenyl	*89.6 %*			*28-107*		*1030137*	7/23/2010 3:53:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.35		mg/kg dry	0.99	1030098	7/20/2010 6:40:00AM
Surrogate: a,a,a-Trifluorotoluene	*107 %*			*60-155*		*1030098*	7/20/2010 6:40:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.17		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**8.53**	1.17		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	**59.8**	1.17		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.544**	0.117		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**12.2**	1.17		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**13.2**	1.17		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.87		mg/kg dry	1	1031001	7/25/2010 9:38:28PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	**0.125**	0.110		mg/kg dry	1	1031003	7/26/2010 1:17:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Aroclor 1221	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Aroclor 1232	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Aroclor 1242	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Aroclor 1248	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Aroclor 1254	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Aroclor 1260	BDL	0.0214		mg/kg dry	1	1030136	7/22/2010 7:09:00AM
Surrogate: Decachlorobiphenyl	*110 %*			*40-159*		*1030136*	7/22/2010 7:09:00AM
Surrogate: Tetrachloro-m-xylene	*83.0 %*			*47-125*		*1030136*	7/22/2010 7:09:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-18 **Collection Date:** 7/8/2010 10:57:00AM
Client Sample ID: B-9 (4-5) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,1,1-Trichloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,1,2-Trichloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,1-Dichloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,1-Dichloroethene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,1-Dichloropropene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,2-Dibromoethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,2-Dichloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,2-Dichloropropane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
1,3-Dichloropropane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
2,2-Dichloropropane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
2-Butanone	BDL	0.0212		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
2-Chlorotoluene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
2-Hexanone	BDL	0.0212		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Chlorotoluene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
lethyl-2-pentanone	BDL	0.0212		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Acetone	BDL	0.0529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Acetonitrile	BDL	0.0424		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Acrolein	BDL	0.0212		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Acrylonitrile	BDL	0.0212		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Allyl chloride	BDL	0.0106		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Benzene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Bromobenzene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Bromochloromethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Bromodichloromethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Bromoform	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Bromomethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Carbon Disulfide	BDL	0.0212		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Carbon Tetrachloride	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Chlorobenzene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Chloroethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Chloroform	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Chloromethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
cis-1,2-Dichloroethene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
cis-1,3-Dichloropropene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Dibromochloromethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Dibromomethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Dichlorodifluoromethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Ethylbenzene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Iodomethane	BDL	0.0106		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Methylene Chloride	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
hyl tert-Butyl Ether	BDL	0.0106		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
-Xylene	BDL	0.0106		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-18 **Collection Date:** 7/8/2010 10:57:00AM
Client Sample ID: B-9 (4-5) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
o-Xylene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Styrene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Tetrachloroethene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Toluene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
trans-1,2-Dichloroethene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
trans-1,3-Dichloropropene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Trichloroethene	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Trichlorofluoromethane	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Vinyl Chloride	BDL	0.00529		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Vinyl acetate	BDL	0.0106		mg/kg dry	0.98	1030319	7/21/2010 9:16:00AM
Surrogate: 4-Bromofluorobenzene		*90.0 %*		*41-140*		*1030319*	7/21/2010 9:16:00AM
Surrogate: Dibromofluoromethane		*76.6 %*		*33-129*		*1030319*	7/21/2010 9:16:00AM
Surrogate: Toluene-d8		*90.9 %*		*44-130*		*1030319*	7/21/2010 9:16:00AM
Surrogate: 1,2-Dichloroethane-d4		*77.0 %*		*31-123*		*1030319*	7/21/2010 9:16:00AM
MOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	**7.46**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Acenaphthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Acenaphthylene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Anthracene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Benz(a)anthracene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Benzo(a)pyrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Benzo(b)fluoranthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Benzo(g,h,i)perylene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Benzo(k)fluoranthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Chrysene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Dibenz(a,h)anthracene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Fluoranthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Fluorene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Naphthalene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Phenanthrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Pyrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 4:39:00AM
Surrogate: Nitrobenzene-d5		*62.9 %*		*51-126*		*1030217*	7/30/2010 4:39:00AM
Surrogate: 2-Fluorobiphenyl		*74.9 %*		*56-121*		*1030217*	7/30/2010 4:39:00AM
Surrogate: Terphenyl-d14		*76.0 %*		*40-140*		*1030217*	7/30/2010 4:39:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-19 **Collection Date:** 7/8/2010 12:57:00PM
Client Sample ID: B-10 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	**22.1**	10.9		mg/kg dry	1	1030137	7/23/2010 4:21:00AM
C20 to C34	BDL	545		mg/kg dry	1	1030137	7/23/2010 4:21:00AM
Surrogate: o-Terphenyl	*88.9 %*			*28-107*		*1030137*	7/23/2010 4:21:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.35		mg/kg dry	0.98	1030097	7/20/2010 2:17:00AM
Surrogate: a,a,a-Trifluorotoluene	*101 %*			*60-155*		*1030097*	7/20/2010 2:17:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.07		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**9.60**	1.07		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
ium	**71.6**	1.07		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.731**	0.107		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**11.2**	1.07		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**93.4**	1.07		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.35		mg/kg dry	1	1031001	7/25/2010 9:43:29PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.115		mg/kg dry	1	1031003	7/26/2010 1:19:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
Aroclor 1221	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
Aroclor 1232	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
Aroclor 1242	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
Aroclor 1248	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
Aroclor 1254	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
Aroclor 1260	BDL	0.0216		mg/kg dry	1	1030136	7/22/2010 7:34:00AM
rogate: Decachlorobiphenyl	*123 %*			*40-159*		*1030136*	7/22/2010 7:34:00AM
rrogate: Tetrachloro-m-xylene	*97.0 %*			*47-125*		*1030136*	7/22/2010 7:34:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-19 **Collection Date:** 7/8/2010 12:57:00PM
Client Sample ID: B-10 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,1,1-Trichloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,1,2-Trichloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,1-Dichloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,1-Dichloroethene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,1-Dichloropropene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,2-Dibromoethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,2-Dichloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,2-Dichloropropane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
1,3-Dichloropropane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
2,2-Dichloropropane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
2-Butanone	BDL	0.0216		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
2-Chlorotoluene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
2-Hexanone	BDL	0.0216		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Chlorotoluene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
4-Methyl-2-pentanone	BDL	0.0216		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Acetone	BDL	0.0540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Acetonitrile	BDL	0.0432		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Acrolein	BDL	0.0216		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Acrylonitrile	BDL	0.0216		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Allyl chloride	BDL	0.0108		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Benzene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Bromobenzene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Bromochloromethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Bromodichloromethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Bromoform	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Bromomethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Carbon Disulfide	BDL	0.0216		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Carbon Tetrachloride	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Chlorobenzene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Chloroethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Chloroform	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Chloromethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
cis-1,2-Dichloroethene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
cis-1,3-Dichloropropene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Dibromochloromethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Dibromomethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Dichlorodifluoromethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Ethylbenzene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Iodomethane	BDL	0.0108		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Methylene Chloride	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Methyl tert-Butyl Ether	BDL	0.0108		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
m,p-Xylene	BDL	0.0108		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-19 **Collection Date:** 7/8/2010 12:57:00PM
Client Sample ID: B-10 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
o-Xylene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Styrene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Tetrachloroethene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Toluene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
trans-1,2-Dichloroethene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
trans-1,3-Dichloropropene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Trichloroethene	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Trichlorofluoromethane	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Vinyl Chloride	BDL	0.00540		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Vinyl acetate	BDL	0.0108		mg/kg dry	0.99	1030319	7/21/2010 3:51:00AM
Surrogate: 4-Bromofluorobenzene		*88.8 %*		*41-140*		*1030319*	7/21/2010 3:51:00AM
Surrogate: Dibromofluoromethane		*76.4 %*		*33-129*		*1030319*	7/21/2010 3:51:00AM
Surrogate: Toluene-d8		*90.3 %*		*44-130*		*1030319*	7/21/2010 3:51:00AM
Surrogate: 1,2-Dichloroethane-d4		*79.0 %*		*31-123*		*1030319*	7/21/2010 3:51:00AM
MOIST		**D 2216**				**Analyst: AD**	
rcent Moisture	**8.35**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Acenaphthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Acenaphthylene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Anthracene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Benz(a)anthracene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Benzo(a)pyrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Benzo(b)fluoranthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Benzo(g,h,i)perylene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Benzo(k)fluoranthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Chrysene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Dibenz(a,h)anthracene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Fluoranthene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Fluorene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Naphthalene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Phenanthrene	**0.123**	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Pyrene	BDL	0.108		mg/kg dry	1	1030217	7/30/2010 5:21:00AM
Surrogate: Nitrobenzene-d5		*58.9 %*		*51-126*		*1030217*	7/30/2010 5:21:00AM
Surrogate: 2-Fluorobiphenyl		*70.5 %*		*56-121*		*1030217*	7/30/2010 5:21:00AM
Surrogate: Terphenyl-d14		*73.5 %*		*40-140*		*1030217*	7/30/2010 5:21:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-20 **Collection Date:** 7/8/2010 1:06:00PM
Client Sample ID: B-10 (28-30) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: daG**	
C10 to C20	BDL	10.1		mg/kg dry	1	1030137	7/23/2010 4:49:00AM
C20 to C34	BDL	507		mg/kg dry	1	1030137	7/23/2010 4:49:00AM
Surrogate: o-Terphenyl	*82.6 %*			*28-107*		*1030137*	7/23/2010 4:49:00AM
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.07		mg/kg dry	0.99	1030098	7/20/2010 7:13:00AM
Surrogate: a,a,a-Trifluorotoluene	*105 %*			*60-155*		*1030098*	7/20/2010 7:13:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.00		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**3.59**	1.00		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
rium	**20.5**	1.00		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.195**	0.100		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**4.10**	1.00		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**2.87**	1.00		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.02		mg/kg dry	1	1031001	7/25/2010 9:48:44PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	BDL	0.0931		mg/kg dry	1	1031003	7/26/2010 1:26:00PM
PCB_8082	**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
Aroclor 1221	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
Aroclor 1232	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
Aroclor 1242	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
Aroclor 1248	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
Aroclor 1254	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
Aroclor 1260	BDL	0.0205		mg/kg dry	1	1030136	7/22/2010 4:40:00AM
rrogate: Decachlorobiphenyl	*126 %*			*40-159*		*1030136*	7/22/2010 4:40:00AM
Surrogate: Tetrachloro-m-xylene	*108 %*			*47-125*		*1030136*	7/22/2010 4:40:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-20 **Collection Date:** 7/8/2010 1:06:00PM
Client Sample ID: B-10 (28-30) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,1,1-Trichloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,1,2-Trichloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,1-Dichloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,1-Dichloroethene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,1-Dichloropropene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,2-Dibromoethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,2-Dichloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,2-Dichloropropane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
1,3-Dichloropropane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
2,2-Dichloropropane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
2-Butanone	BDL	0.0201		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
2-Chlorotoluene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
2-Hexanone	BDL	0.0201		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
4-Chlorotoluene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Methyl-2-pentanone	BDL	0.0201		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Acetone	BDL	0.0502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Acetonitrile	BDL	0.0401		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Acrolein	BDL	0.0201		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Acrylonitrile	BDL	0.0201		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Allyl chloride	BDL	0.0100		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Benzene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Bromobenzene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Bromochloromethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Bromodichloromethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Bromoform	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Bromomethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Carbon Disulfide	BDL	0.0201		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Carbon Tetrachloride	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Chlorobenzene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Chloroethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Chloroform	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Chloromethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
cis-1,2-Dichloroethene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
cis-1,3-Dichloropropene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Dibromochloromethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Dibromomethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Dichlorodifluoromethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Ethylbenzene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Iodomethane	BDL	0.0100		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Methylene Chloride	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Methyl tert-Butyl Ether	BDL	0.0100		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
p-Xylene	BDL	0.0100		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-20 **Collection Date:** 7/8/2010 1:06:00PM
Client Sample ID: B-10 (28-30) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
o-Xylene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Styrene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Tetrachloroethene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Toluene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
trans-1,2-Dichloroethene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
trans-1,3-Dichloropropene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Trichloroethene	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Trichlorofluoromethane	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Vinyl Chloride	BDL	0.00502		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Vinyl acetate	BDL	0.0100		mg/kg dry	0.98	1030319	7/21/2010 4:24:00AM
Surrogate: 4-Bromofluorobenzene		*91.3 %*		*41-140*		*1030319*	7/21/2010 4:24:00AM
Surrogate: Dibromofluoromethane		*75.6 %*		*33-129*		*1030319*	7/21/2010 4:24:00AM
Surrogate: Toluene-d8		*90.3 %*		*44-130*		*1030319*	7/21/2010 4:24:00AM
Surrogate: 1,2-Dichloroethane-d4		*77.8 %*		*31-123*		*1030319*	7/21/2010 4:24:00AM
PMOIST		**D 2216**				**Analyst: AD**	
Percent Moisture	2.30			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270		**SW 8270C**				**Analyst: mbg**	
2-Methylnaphthalene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Acenaphthene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Acenaphthylene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Anthracene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Benz(a)anthracene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Benzo(a)pyrene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Benzo(b)fluoranthene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Benzo(g,h,i)perylene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Benzo(k)fluoranthene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Chrysene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Dibenz(a,h)anthracene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Fluoranthene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Fluorene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Naphthalene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Phenanthrene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Pyrene	BDL	0.102		mg/kg dry	1	1030217	7/30/2010 6:03:00AM
Surrogate: Nitrobenzene-d5		*69.0 %*		*51-126*		*1030217*	7/30/2010 6:03:00AM
Surrogate: 2-Fluorobiphenyl		*70.7 %*		*56-121*		*1030217*	7/30/2010 6:03:00AM
Surrogate: Terphenyl-d14		*75.8 %*		*40-140*		*1030217*	7/30/2010 6:03:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
roject: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-21 **Collection Date:** 7/8/2010 2:12:00PM
Client Sample ID: B-11 (4-6) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	**844**		11.2		mg/kg dry	1	1030191	7/28/2010 3:22:00PM
C20 to C34	**7600**		560		mg/kg dry	1	1030191	7/28/2010 3:22:00PM
Surrogate: o-Terphenyl		*71.4 %*			*28-107*		*1030191*	7/28/2010 3:22:00PM
TPH GRO C6-C12		**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL		5.57		mg/kg dry	0.99	1030098	7/20/2010 7:45:00AM
Surrogate: a,a,a-Trifluorotoluene		*103 %*			*60-155*		*1030098*	7/20/2010 7:45:00AM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.13		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**5.95**		1.13		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
rium	**310**		1.13		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**3.57**		0.113		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**30.5**		1.13		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**315**		1.13		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.63		mg/kg dry	1	1031001	7/25/2010 9:54:04PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	**0.469**		0.111		mg/kg dry	1	1031003	7/26/2010 1:28:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
Aroclor 1221	BDL		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
Aroclor 1232	BDL		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
Aroclor 1242	BDL		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
Aroclor 1248	BDL		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
Aroclor 1254	**0.376**		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
Aroclor 1260	BDL		0.0225		mg/kg dry	1	1030136	7/22/2010 2:40:00PM
rrogate: Decachlorobiphenyl		*153 %*			*40-159*		*1030136*	7/22/2010 2:40:00PM
rogate: Tetrachloro-m-xylene		*93.0 %*			*47-125*		*1030136*	7/22/2010 2:40:00PM

Belmont Labs **Date:** 8/9/2010

_IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-21 **Collection Date:** 7/8/2010 2:12:00PM
Client Sample ID: B-11 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,1,1-Trichloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,1,2,2-Tetrachloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,1,2-Trichloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,1-Dichloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,1-Dichloroethene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,1-Dichloropropene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,2-Dibromoethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,2-Dichloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,2-Dichloropropane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
1,3-Dichloropropane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
2,2-Dichloropropane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
2-Butanone	BDL	0.0223		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
2-Chlorotoluene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
2-Hexanone	BDL	0.0223		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Chlorotoluene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Methyl-2-pentanone	BDL	0.0223		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Acetone	BDL	0.0557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Acetonitrile	BDL	0.0446		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Acrolein	BDL	0.0223		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Acrylonitrile	BDL	0.0223		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Allyl chloride	BDL	0.0111		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Benzene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Bromobenzene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Bromochloromethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Bromodichloromethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Bromoform	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Bromomethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Carbon Disulfide	BDL	0.0223		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Carbon Tetrachloride	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Chlorobenzene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Chloroethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Chloroform	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Chloromethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
cis-1,2-Dichloroethene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
cis-1,3-Dichloropropene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Dibromochloromethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Dibromomethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Dichlorodifluoromethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Ethylbenzene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Iodomethane	BDL	0.0111		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Methylene Chloride	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
thyl tert-Butyl Ether	BDL	0.0111		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
,p-Xylene	BDL	0.0111		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-21 **Collection Date:** 7/8/2010 2:12:00PM
Client Sample ID: B-11 (4-6) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
o-Xylene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Styrene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Tetrachloroethene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Toluene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
trans-1,2-Dichloroethene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
trans-1,3-Dichloropropene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Trichloroethene	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Trichlorofluoromethane	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Vinyl Chloride	BDL	0.00557		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Vinyl acetate	BDL	0.0111		mg/kg dry	0.99	1030319	7/21/2010 5:29:00AM
Surrogate: 4-Bromofluorobenzene	*91.2 %*			*41-140*		*1030319*	7/21/2010 5:29:00AM
Surrogate: Dibromofluoromethane	*74.7 %*			*33-129*		*1030319*	7/21/2010 5:29:00AM
Surrogate: Toluene-d8	*90.2 %*			*44-130*		*1030319*	7/21/2010 5:29:00AM
Surrogate: 1,2-Dichloroethane-d4	*76.3 %*			*31-123*		*1030319*	7/21/2010 5:29:00AM
PMOIST	**D 2216**					**Analyst: AD**	
cent Moisture	**11.2**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Acenaphthene	BDL	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Acenaphthylene	BDL	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Anthracene	**13.7**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Benz(a)anthracene	**25.7**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Benzo(a)pyrene	**24.6**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Benzo(b)fluoranthene	**16.0**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Benzo(g,h,i)perylene	**17.4**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Benzo(k)fluoranthene	**19.0**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Chrysene	**25.7**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Dibenz(a,h)anthracene	BDL	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Fluoranthene	**60.0**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Fluorene	**5.83**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Indeno(1,2,3-cd)pyrene	**15.4**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Naphthalene	BDL	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Phenanthrene	**42.4**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Pyrene	**43.2**	5.62		mg/kg dry	50	1030217	8/4/2010 5:07:00PM
Surrogate: Nitrobenzene-d5	*114 %*			*51-126*		*1030217*	8/4/2010 5:07:00PM
Surrogate: 2-Fluorobiphenyl	*%*		*S-04*	*56-121*		*1030217*	8/4/2010 5:07:00PM
Surrogate: Terphenyl-d14	*67.5 %*			*40-140*		*1030217*	8/4/2010 5:07:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-22 **Collection Date:** 7/8/2010 2:54:00PM
Client Sample ID: B-12 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH GRO C6-C12	**SW 8015**					**Analyst: EH**	
Gasoline Range Organics, C6 - C12	BDL	5.63		mg/kg dry	0.97	1030098	7/20/2010 8:18:00AM
Surrogate: a,a,a-Trifluorotoluene	*105 %*			*60-155*		*1030098*	7/20/2010 8:18:00AM
VOC 8260	**SW 8260A**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,1,1-Trichloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,1,2,2-Tetrachloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,1,2-Trichloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,1-Dichloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,1-Dichloroethene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,1-Dichloropropene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,2-Dibromoethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,2-Dichloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
1,2-Dichloropropane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
3-Dichloropropane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
2-Dichloropropane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
2-Butanone	BDL	0.0316		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
2-Chlorotoluene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
2-Hexanone	BDL	0.0316		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
4-Chlorotoluene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
4-Methyl-2-pentanone	BDL	0.0316		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Acetone	BDL	0.0790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Acetonitrile	BDL	0.0632		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Acrolein	BDL	0.0316		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Acrylonitrile	BDL	0.0316		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Allyl chloride	BDL	0.0158		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Benzene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Bromobenzene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Bromochloromethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Bromodichloromethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Bromoform	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Bromomethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Carbon Disulfide	BDL	0.0316		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Carbon Tetrachloride	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Chlorobenzene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Chloroethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Chloroform	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Chloromethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
cis-1,2-Dichloroethene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
cis-1,3-Dichloropropene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Dibromochloromethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
bromomethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
ichlorodifluoromethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Ethylbenzene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-22 **Collection Date:** 7/8/2010 2:54:00PM
Client Sample ID: B-12 (16-18) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Iodomethane	BDL	0.0158		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Methylene Chloride	**0.00793**	0.00790	O-01, B	mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Methyl tert-Butyl Ether	BDL	0.0158		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
m,p-Xylene	BDL	0.0158		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
n-Hexane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
o-Xylene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Styrene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Tetrachloroethene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Toluene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
trans-1,2-Dichloroethene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
trans-1,3-Dichloropropene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Trichloroethene	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Trichlorofluoromethane	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Vinyl Chloride	BDL	0.00790		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Vinyl acetate	BDL	0.0158		mg/kg dry	1.36	1031011	7/21/2010 4:50:00PM
Surrogate: 4-Bromofluorobenzene		*78.2 %*		*41-140*		*1031011*	7/21/2010 4:50:00PM
Surrogate: Dibromofluoromethane		*79.3 %*		*33-129*		*1031011*	7/21/2010 4:50:00PM
rogate: Toluene-d8		*84.5 %*		*44-130*		*1031011*	7/21/2010 4:50:00PM
Surrogate: 1,2-Dichloroethane-d4		*88.5 %*		*31-123*		*1031011*	7/21/2010 4:50:00PM

PMOIST **D 2216** **Analyst: AD**

Percent Moisture	**13.9**			% by Weight	1	1031050	7/25/2010 11:00:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-23 **Collection Date:** 7/8/2010 3:00:00PM
Client Sample ID: B-12 (24-26) **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34		**SW 8015**					**Analyst: daG**	
C10 to C20	**34.0**		11.0		mg/kg dry	1	1030191	7/28/2010 3:51:00PM
C20 to C34	**581**		551		mg/kg dry	1	1030191	7/28/2010 3:51:00PM
Surrogate: o-Terphenyl		*54.5 %*			*28-107*		*1030191*	7/28/2010 3:51:00PM
ICP_Ag		**SW 6010B**					**Analyst: RJE**	
Silver	BDL		1.04		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
ICP_As		**SW 6010B**					**Analyst: RJE**	
Arsenic	**8.90**		1.04		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
ICP_Ba		**SW 6010B**					**Analyst: RJE**	
Barium	**125**		1.04		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
ICP_Cd		**SW 6010B**					**Analyst: RJE**	
Cadmium	**0.752**		0.104		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
ICP_Cr		**SW 6010B**					**Analyst: RJE**	
Chromium	**21.9**		1.04		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**449**		1.04		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
ICP_Se		**SW 6010B**					**Analyst: RJE**	
Selenium	BDL		5.20		mg/kg dry	1	1031001	7/25/2010 9:59:23PM
HG		**SW 7471**					**Analyst: KC**	
Mercury	**0.165**		0.165		mg/kg dry	1	1031003	7/26/2010 1:30:00PM
PCB_8082		**SW 8082**					**Analyst: DAG**	
Aroclor 1016	BDL		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Aroclor 1221	BDL		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Aroclor 1232	BDL		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Aroclor 1242	BDL		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Aroclor 1248	BDL		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Aroclor 1254	**0.0501**		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Aroclor 1260	BDL		0.0219		mg/kg dry	1	1030136	7/22/2010 3:30:00PM
Surrogate: Decachlorobiphenyl		*115 %*			*40-159*		*1030136*	7/22/2010 3:30:00PM
Surrogate: Tetrachloro-m-xylene		*116 %*			*47-125*		*1030136*	7/22/2010 3:30:00PM
PMOIST		**D 2216**					**Analyst: AD**	
·cent Moisture	**9.31**				% by Weight	1	1031050	7/25/2010 11:00:00AM

Belmont Labs **Date:** 8/9/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-23 **Collection Date:** 7/8/2010 3:00:00PM
Client Sample ID: B-12 (24-26) **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Acenaphthene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Acenaphthylene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Anthracene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Benz(a)anthracene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Benzo(a)pyrene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Benzo(b)fluoranthene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Benzo(g,h,i)perylene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Benzo(k)fluoranthene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Chrysene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Dibenz(a,h)anthracene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Fluoranthene	**11.1**	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Fluorene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Indeno(1,2,3-cd)pyrene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Naphthalene	BDL	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
Phenanthrene	**8.16**	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
rene	**9.15**	5.51		mg/kg dry	50	1030217	8/4/2010 5:26:00PM
rrogate: Nitrobenzene-d5	*266 %*		*S-04*	*51-126*		*1030217*	8/4/2010 5:26:00PM
Surrogate: 2-Fluorobiphenyl	*1.25 %*		*S-04*	*56-121*		*1030217*	8/4/2010 5:26:00PM
Surrogate: Terphenyl-d14	*186 %*		*S-04*	*40-140*		*1030217*	8/4/2010 5:26:00PM

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0539-24 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: D-6 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
TPH C10-34	**SW 8015**					**Analyst: MBG**	
C10 to C20	**74.8**	12.0		mg/kg dry	1	1029210	7/20/2010 1:14:00AM
C20 to C34	BDL	598		mg/kg dry	1	1029210	7/20/2010 1:14:00AM
Surrogate: o-Terphenyl	*49.9 %*			*48-115*		*1029210*	7/20/2010 1:14:00AM
ICP_Ag	**SW 6010B**					**Analyst: RJE**	
Silver	BDL	1.14		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
ICP_As	**SW 6010B**					**Analyst: RJE**	
Arsenic	**16.0**	1.14		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
ICP_Ba	**SW 6010B**					**Analyst: RJE**	
Barium	**96.4**	1.14		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
ICP_Cd	**SW 6010B**					**Analyst: RJE**	
Cadmium	**1.53**	0.114		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
ICP_Cr	**SW 6010B**					**Analyst: RJE**	
Chromium	**22.7**	1.14		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	**195**	1.14		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
ICP_Se	**SW 6010B**					**Analyst: RJE**	
Selenium	BDL	5.68		mg/kg dry	1	1031001	7/25/2010 10:04:19PM
HG	**SW 7471**					**Analyst: KC**	
Mercury	**3.43**	1.13	D	mg/kg dry	10	1031003	7/26/2010 2:23:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**16.9**			% by Weight	1	1031050	7/25/2010 11:00:00AM
PAH_FULL_8270	**SW 8270C**					**Analyst: mbg**	
2-Methylnaphthalene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Acenaphthene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Acenaphthylene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Anthracene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Benz(a)anthracene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Benzo(a)pyrene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Benzo(b)fluoranthene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Benzo(g,h,i)perylene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Benzo(k)fluoranthene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Chrysene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM

Lab ID: 10G0539-24 **Collection Date:** 7/7/2010 12:00:00AM
Client Sample ID: D-6 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Dibenz(a,h)anthracene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Fluoranthene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Fluorene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Indeno(1,2,3-cd)pyrene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Naphthalene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Phenanthrene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Pyrene	BDL	1.19		mg/kg dry	10	1030120	7/30/2010 6:45:00AM
Surrogate: Nitrobenzene-d5	*46.2 %*		*S-04*	*51-126*		*1030120*	7/30/2010 6:45:00AM
Surrogate: 2-Fluorobiphenyl	*65.2 %*			*56-121*		*1030120*	7/30/2010 6:45:00AM
Surrogate: Terphenyl-d14	*89.0 %*			*40-140*		*1030120*	7/30/2010 6:45:00AM

Belmont Labs
The Environmental Service Company. 72.05876.0984

ANALYTICAL REQUEST CHAIN OF CUSTODY

Internal Lab Order Number 1DG0539

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type: ☐ NPDES ☐ RCRA ☐ SDWA ☒ VAP ☐ Other
Collected in State of _____

Matrix Key: DW - Drinking Water; GW - Ground Water; S - Soil/Solid; SL - Sludge; WW - Waste Water; Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 HNO3, HCl, H2SO4, Ice, None, Other	PAH 8270 HNO3, HCl, H2SO4, Ice, None, Other	PCB 8082 HNO3, HCl, H2SO4, Ice, None, Other	TPH 8015 C6-C12 HNO3, HCl, H2SO4, Ice, None, Other	TPH C10-C20 8015 TPH C20-C34 HNO3, HCl, H2SO4, Ice, None, Other	RCRA Metals 6010/7470 HNO3, HCl, H2SO4, Ice, None, Other			Lab Only
MW-2 (0-2)	7/6/10	1149		X	S	2	X	X		X	X				
MW-2 (6-8)		1220		X	S	2			X			X			
MW-2 (10-12)		1228		X	S	2	X	X		X	X				
MW-2 (12-14)		1330		X	S	1			X			X			
B-1 (2-4)	7/7/10	1031		X	S	3	X	X	X	X	X	X			
B-1 (10-12)		1049		X	S	3	X	X	X	X	X	X			
B-2 (4-6)		1342		X	S	3	X	X	X	X	X	X			
B-2 (12-14)		1355		X	S	3	X	X	X	X	X	X			
B-3 (0-2)		1117		X	S	3	X	X	X	X	X	X			
B-3 (8-10)		1130		X	S	3	X	X	X	X	X	X			

CHAIN OF CUSTODY (if required)

Relinquished by: Matthew Nemecek Date/Time 7/12/10 0930
Received by: Date/Time 7/12/10 115
Relinquished by: Date/Time
Received at lab by: Date/Time 7/12/10 160
Method of Shipment: courier
Cooler Temp. 0C 3.4° Custody Seals ☒ Yes ☐ No
Client Comments

Sampled by: Matt Nemecek Date _____

Please re' completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/

Belmont Labs
The Environmental Service Company.

ANALYTICAL REQUEST CHAIN OF CUSTODY

72.05876.0884

Internal Lab Order Number _____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No
Fax Results ☐
Special Instructions:
Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of _____

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 HNO3, HCl, H2SO4, Ice, None, Other	PAH 8270 HNO3, HCl, H2SO4, Ice, None, Other	PCB 8082 HNO3, HCl, H2SO4, Ice, None, Other	TPH 8015 C6-C12 HNO3, HCl, H2SO4, Ice, None, Other	TPH C10-C20 TPH C20-C34 8015 HNO3, HCl, H2SO4, Ice, None, Other	RCRA Metals 6010/7470 HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
TB-2	7/7/10	-			W	2	X								
TB-3	7/8/10	-			W	2	X								
EB-2	7/8/10	1130		X	W	4	X	X	X			X			
B-4A (0-2)	7/8/10	1350		X	S	2	X			X					
B-4A (4-6)		1352		X	S	2		X	X		X	X			
B-4A (12-14)		1358		X	S	3	X	X	X	X	X	X			
B-8 (0-2)		0940		X	S	3	X	X	X	X	X	X			
B-9 (4-5)		1057		X	S	3	X	X	X	X	X	X			
B-10 (4-6)		1257		X	S	2	X	X	X	X	X	X			
B-10 (28-30)		1306		X	S	3	X	X	X	X	X	X			

CHAIN OF CUSTODY (if required)

Relinquished by: Matthew Nemecek Date/Time 7/12/10 0930 Received by: Date/Time 7/12/10 1150

Relinquished by: Date/Time Received at lab by: Date/Time 7/12/10 1605

Method of Shipment: courier Cooler Temp. 0.1 Custody Seals ☐ Yes ☐ No

Sampled by: Matt Nemecek Date _____

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, [illegible]1322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

Internal Lab Order Number ____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of ____

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260	PAH 8270	PCB 8082	TPH 8015 C6-C12	TPH C10-C20 8015	TPH C20-C34 8015	RCRA Metals 6010/7470			Lab Only
B-11 (4-6)	7/8/10	1412		X	S	2	X	X	X	X	X	X				
B-12 (16-18)	7/8/10	1454		X	S	1	X			X						
B-12 (24-26)	7/8/10	1500		X	S	1		X	X		X	X				
D-6	7/7/10	-		X	S	2		X			X	X				
								1								

CHAIN OF CUSTODY (if required)

Relinquished by: Matthew Smith Date/Time 7/12/10 0930 Received by: Date/Time 7/12/10 1150

Relinquished by: Date/Time Received at lab by: Date/Time 7/12/10 1605

Method of Shipment: Courier Cooler Temp. 0 I Custody Seals ☒ Yes ☐ No

Sampled by: Matt Nemecek Date

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

21-Jul-2010

Holly Green
Belmont Labs
25 Holiday Drive
Englewood, OH 45322-2706

Tel: 937-832-8242
Fax: 937-832-2868

Re: 10G0539 Work Order: **1007241**

Dear Holly,

ALS Group USA, Corp received 1 sample on 14-Jul-2010 12:16 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 8.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Ed Slick

Electronically approved by: Mark Johnson

Ed Slick
Lab Supervisor

ALS Group USA, Corp

Date: 21-Jul-10

Client: Belmont Labs
Project: 10G0539
Work Order: **1007241**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1007241-01	10G0539-13	Water		7/8/2010 11:30	7/14/2010 12:16	☐

ALS Group USA, Corp

Date: *21-Jul-10*

Client: Belmont Labs
Project: 10G0539
Work Order: 1007241
Sample ID: 10G0539-13
Lab ID: 1007241-01
Collection Date: 7/8/2010 11:30 AM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PAH COMPOUNDS			**SW8270C**		Prep Date: **7/14/2010**	Analyst: **PPC**
1-Methylnaphthalene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
2-Methylnaphthalene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Acenaphthene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Acenaphthylene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Anthracene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Benzo(a)anthracene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Benzo(a)pyrene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	7/16/2010 02:39 PM
Benzo(g,h,i)perylene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	7/16/2010 02:39 PM
Carbazole	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Chrysene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Dibenzo(a,h)anthracene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Dibenzofuran	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Fluoranthene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Fluorene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Indeno(1,2,3-cd)pyrene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Naphthalene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Phenanthrene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Pyrene	ND		0.10	µg/L	1	7/16/2010 02:39 PM
Surr: 2-Fluorobiphenyl	*88.2*		*48-102*	*%REC*	1	7/16/2010 02:39 PM

Note:

ALS Group USA, Corp

Client: Belmont Labs
Work Order: 1007241
Project: 10G0539

Date: 21-Jul-10

QC BATCH REPORT

Batch ID: **2374** Instrument ID **SVMS1** Method: **SW8270C**

MBLK Sample ID: **mblk-2374-2374** Units: **µg/L** Analysis Date: **7/15/2010 05:32 PM**

Client ID: Run ID: **SVMS1_100715A** SeqNo: **125786** Prep Date: **7/14/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	0.10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	0.10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								
Surr: 2-Fluorobiphenyl	*4.31*	0	*5*	0	*86.2*	*48-102*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Belmont Labs
Work Order: 1007241
Project: 10G0539

QC BATCH REPORT

Batch ID: **2374** Instrument ID **SVMS1** Method: **SW8270C**

LCS Sample ID: **lcs-2374-2374** Units: **µg/L** Analysis Date: **7/15/2010 06:07 PM**

Client ID: Run ID: **SVMS1_100715A** SeqNo: **125787** Prep Date: **7/14/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	4.44	0.10	5	0	88.8	53-119	0			
Acenaphthylene	5.04	0.10	5	0	101	62-101	0			
Anthracene	5.02	0.10	5	0	100	54-112	0			
Benzo(a)anthracene	4.86	0.10	5	0	97.2	49-128	0			
Benzo(a)pyrene	4.71	0.10	5	0	94.2	65-111	0			
Benzo(b)fluoranthene	4.36	0.11	5	0	87.2	50-110	0			
Benzo(g,h,i)perylene	4.69	0.10	5	0	93.8	56-115	0			
Benzo(k)fluoranthene	4.42	0.16	5	0	88.4	61-127	0			
Chrysene	4.75	0.10	5	0	95	62-116	0			
Dibenzo(a,h)anthracene	5	0.10	5	0	100	55-115	0			
Fluoranthene	5.14	0.10	5	0	103	67-119	0			
Fluorene	4.81	0.10	5	0	96.2	59-111	0			
Indeno(1,2,3-cd)pyrene	4.66	0.10	5	0	93.2	62-107	0			
Naphthalene	3.87	0.10	5	0	77.4	49-99	0			
Phenanthrene	4.94	0.10	5	0	98.8	61-110	0			
Pyrene	5.52	0.10	5	0	110	51-129	0			
Surr: 2-Fluorobiphenyl	*4.37*	0	*5*	0	*87.4*	*48-102*	0			

MS Sample ID: **1007244-01A MS** Units: **µg/L** Analysis Date: **7/15/2010 07:18 PM**

Client ID: Run ID: **SVMS1_100715A** SeqNo: **125788** Prep Date: **7/14/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	4.28	0.10	6.667	0	64.2		0			
Acenaphthylene	5.05	0.10	6.667	0	75.8		0			
Anthracene	4.96	0.10	6.667	0	74.4		0			
Benzo(a)anthracene	5.3	0.10	6.667	0.06	78.6		0			
Benzo(a)pyrene	4.63	0.10	6.667	0	69.4		0			
Benzo(b)fluoranthene	5.01	0.11	6.667	0	75.2		0			
Benzo(g,h,i)perylene	4.88	0.10	6.667	0	73.2		0			
Benzo(k)fluoranthene	4.61	0.16	6.667	0	69.2		0			
Chrysene	5.13	0.10	6.667	0	77		0			
Dibenzo(a,h)anthracene	5.09	0.10	6.667	0	76.4		0			
Fluoranthene	5.38	0.10	6.667	0	80.7		0			
Fluorene	4.96	0.10	6.667	0	74.4		0			
Indeno(1,2,3-cd)pyrene	4.88	0.10	6.667	0	73.2		0			
Naphthalene	3.39	0.10	6.667	0	50.8		0			
Phenanthrene	5.17	0.10	6.667	0	77.6		0			
Pyrene	5.51	0.10	6.667	0	82.6		0			
Surr: 2-Fluorobiphenyl	*3.86*	0	*6.667*	0	*57.9*	*38-105*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Belmont Labs
Work Order: 1007241
Project: 10G0539

QC BATCH REPORT

Batch ID: **2374** Instrument ID **SVMS1** Method: **SW8270C**

MSD Sample ID: **1007244-01A MSD** Units: **µg/L** Analysis Date: **7/15/2010 07:54 PM**

Client ID: Run ID: **SVMS1_100715A** SeqNo: **125789** Prep Date: **7/14/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	3.96	0.10	6.667	0	59.4		4.28	7.77		
Acenaphthylene	4.59	0.10	6.667	0	68.8		5.05	9.54		
Anthracene	4.44	0.10	6.667	0	66.6		4.96	11.1		
Benzo(a)anthracene	4.77	0.10	6.667	0.06	70.6		5.3	10.5		
Benzo(a)pyrene	4.3	0.10	6.667	0	64.5		4.63	7.39		
Benzo(b)fluoranthene	4.6	0.11	6.667	0	69		5.01	8.53		
Benzo(g,h,i)perylene	4.36	0.10	6.667	0	65.4		4.88	11.3		
Benzo(k)fluoranthene	4.45	0.16	6.667	0	66.8		4.61	3.53		
Chrysene	4.69	0.10	6.667	0	70.4		5.13	8.96		
Dibenzo(a,h)anthracene	4.66	0.10	6.667	0	69.9		5.09	8.82		
Fluoranthene	4.94	0.10	6.667	0	74.1		5.38	8.53		
Fluorene	4.58	0.10	6.667	0	68.7		4.96	7.97		
Indeno(1,2,3-cd)pyrene	4.45	0.10	6.667	0	66.8		4.88	9.22		
Naphthalene	3.23	0.10	6.667	0	48.4		3.39	4.83		
Phenanthrene	4.88	0.10	6.667	0	73.2		5.17	5.77		
Pyrene	5.06	0.10	6.667	0	75.9		5.51	8.51		
Surr: 2-Fluorobiphenyl	*3.74*	0	*6.667*	0	*56.1*	*38-105*	3.86	*3.16*	*20*	

The following samples were analyzed in this batch: 1007241-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Belmont Labs
Project: 10G0539
WorkOrder: **1007241**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit

Units Reported	Description
µg/L	

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **BELMONT-ENGLEWOOD** Date/Time Received: **14-Jul-10 12:16**

Work Order: **1007241** Received by: **KLK**

Checklist completed by Jan Wilcox (eSignature) 14-Jul-10 (Date) Reviewed by: Krystan Krailler (eSignature) 15-Jul-10 (Date)

Matrices:

Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Extractable Hydrocarbons by 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029210 - PREP_DRO_S										
Blank (1029210-BLK1)				Prepared: 07/16/10 Analyzed: 07/19/10						
C10 to C20	BDL	10.0	mg/kg wet							
C20 to C34	BDL	500	mg/kg wet							
Surrogate: o-Terphenyl	*2.64*		*mg/kg wet*	*5.000*		*52.8*	*48-115*			
LCS (1029210-BS1)				Prepared: 07/16/10 Analyzed: 07/19/10						
C10 to C20	122	10.0	mg/kg wet	125.7		96.7	52-119			
Surrogate: o-Terphenyl	*3.09*		*mg/kg wet*	*5.000*		*61.8*	*48-115*			
LCS Dup (1029210-BSD1)				Prepared: 07/16/10 Analyzed: 07/19/10						
C10 to C20	124	10.0	mg/kg wet	125.7		98.5	52-119	1.87	11	
Surrogate: o-Terphenyl	*2.57*		*mg/kg wet*	*5.000*		*51.3*	*48-115*			
Batch 1030087 - PREP_DRO_S										
Blank (1030087-BLK1)				Prepared: 07/20/10 Analyzed: 07/21/10						
C10 to C20	BDL	10.0	mg/kg wet							
) to C34	BDL	500	mg/kg wet							
..rrogate: o-Terphenyl	*2.16*		*mg/kg wet*	*5.000*		*43.2*	*28-107*			
LCS (1030087-BS1)				Prepared: 07/20/10 Analyzed: 07/21/10						
C10 to C20	95.4	10.0	mg/kg wet	125.7		75.9	52-119			
Surrogate: o-Terphenyl	*1.68*		*mg/kg wet*	*5.000*		*33.7*	*28-107*			
LCS Dup (1030087-BSD1)				Prepared: 07/20/10 Analyzed: 07/21/10						
C10 to C20	123	10.0	mg/kg wet	125.7		98.2	52-119	25.6	11	R
Surrogate: o-Terphenyl	*2.10*		*mg/kg wet*	*5.000*		*42.1*	*28-107*			

Extractable Hydrocarbons by 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030087 - PREP_DRO_S										
Matrix Spike (1030087-MS1)	**Source: 10G0482-31**			Prepared: 07/20/10 Analyzed: 07/22/10						
C10 to C20	245	12.4	mg/kg dry	156.3	62.8	116	56-111			M
Surrogate: o-Terphenyl	*3.73*		*mg/kg dry*	*6.218*		*60.0*	*28-107*			
Matrix Spike Dup (1030087-MSD1)	**Source: 10G0482-31**			Prepared: 07/20/10 Analyzed: 07/22/10						
C10 to C20	434	12.4	mg/kg dry	156.3	62.8	237	56-111	55.8	12	M
Surrogate: o-Terphenyl	*3.91*		*mg/kg dry*	*6.218*		*62.9*	*28-107*			
Batch 1030137 - PREP_DRO_S										
Blank (1030137-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
C10 to C20	BDL	10.0	mg/kg wet							
C20 to C34	BDL	500	mg/kg wet							
Surrogate: o-Terphenyl	*3.96*		*mg/kg wet*	*5.000*		*79.2*	*28-107*			
LCS (1030137-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10						
C10 to C20	140	10.0	mg/kg wet	125.7		112	52-119			
Surrogate: o-Terphenyl	*4.01*		*mg/kg wet*	*5.000*		*80.3*	*28-107*			
LCS Dup (1030137-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
C10 to C20	131	10.0	mg/kg wet	125.7		104	52-119	7.16	11	
Surrogate: o-Terphenyl	*4.12*		*mg/kg wet*	*5.000*		*82.5*	*28-107*			
Batch 1030191 - PREP_DRO_S										
Blank (1030191-BLK1)				Prepared: 07/21/10 Analyzed: 07/28/10						
C10 to C20	BDL	50.0	mg/kg wet							
C20 to C34	BDL	500	mg/kg wet							
Surrogate: o-Terphenyl	*3.98*		*mg/kg wet*	*5.000*		*79.6*	*28-107*			

Extractable Hydrocarbons by 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030191 - PREP_DRO_S										
LCS (1030191-BS1)				Prepared: 07/21/10 Analyzed: 07/28/10						
C10 to C20	128	50.0	mg/kg wet	125.7		102	52-119			
Surrogate: o-Terphenyl	*3.10*		*mg/kg wet*	*5.000*		*62.0*	*28-107*			
LCS Dup (1030191-BSD1)				Prepared: 07/21/10 Analyzed: 07/28/10						
C10 to C20	135	50.0	mg/kg wet	125.7		107	52-119	4.76	11	
Surrogate: o-Terphenyl	*3.71*		*mg/kg wet*	*5.000*		*74.2*	*28-107*			

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030097 - GC Prep										
Blank (1030097-BLK1)				Prepared & Analyzed: 07/19/10						
Gasoline Range Organics, C6 - C12	BDL	5.00	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*0.103*		*mg/L*	*0.1000*		*103*	*60-155*			
LCS (1030097-BS1)				Prepared & Analyzed: 07/19/10						
Gasoline Range Organics, C6 - C12	11.7	5.00	mg/kg wet	10.00		117	80-118			
Surrogate: a,a,a-Trifluorotoluene	*0.0930*		*mg/L*	*0.1000*		*93.0*	*60-155*			
LCS Dup (1030097-BSD1)				Prepared & Analyzed: 07/19/10						
Gasoline Range Organics, C6 - C12	9.80	5.00	mg/kg wet	10.00		98.0	80-118	17.5	10	R
Surrogate: a,a,a-Trifluorotoluene	*0.0910*		*mg/L*	*0.1000*		*91.0*	*60-155*			
Matrix Spike (1030097-MS1)	**Source: 10G0539-19**			Prepared: 07/19/10 Analyzed: 07/20/10						
Gasoline Range Organics, C6 - C12	15.7	5.35	mg/kg dry	21.82	ND	72.0	56-84			
Surrogate: a,a,a-Trifluorotoluene	*0.107*		*mg/L*	*0.1000*		*107*	*60-155*			
Matrix Spike Dup (1030097-MSD1)	**Source: 10G0539-19**			Prepared: 07/19/10 Analyzed: 07/20/10						
oline Range Organics, C6 - C12	17.3	5.24	mg/kg dry	21.82	ND	79.1	56-84	9.42	20	
Surrogate: a,a,a-Trifluorotoluene	*0.105*		*mg/L*	*0.1000*		*105*	*60-155*			
Batch 1030098 - GC Prep										
Blank (1030098-BLK1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Gasoline Range Organics, C6 - C12	BDL	5.00	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*0.104*		*mg/L*	*0.1000*		*104*	*60-155*			
LCS (1030098-BS1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Gasoline Range Organics, C6 - C12	10.4	5.00	mg/kg wet	10.00		104	80-118			
Surrogate: a,a,a-Trifluorotoluene	*0.102*		*mg/L*	*0.1000*		*102*	*60-155*			

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030098 - GC Prep										
LCS Dup (1030098-BSD1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Gasoline Range Organics, C6 - C12	10.8	5.00	mg/kg wet	10.00		108	80-118	3.62	10	
Surrogate: a,a,a-Trifluorotoluene	*0.0920*		*mg/L*	*0.1000*		*92.0*	*60-155*			
Matrix Spike (1030098-MS1)	**Source: 10G0539-22**			Prepared: 07/19/10 Analyzed: 07/20/10						
Gasoline Range Organics, C6 - C12	17.2	5.75	mg/kg dry	23.23	ND	74.0	56-84			
Surrogate: a,a,a-Trifluorotoluene	*0.107*		*mg/L*	*0.1000*		*107*	*60-155*			
Matrix Spike Dup (1030098-MSD1)	**Source: 10G0539-22**			Prepared: 07/19/10 Analyzed: 07/20/10						
Gasoline Range Organics, C6 - C12	14.9	5.78	mg/kg dry	23.23	ND	64.1	56-84	14.4	20	
Surrogate: a,a,a-Trifluorotoluene	*0.108*		*mg/L*	*0.1000*		*108*	*60-155*			

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030149 - PREP_ICP_W										
Blank (1030149-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Arsenic	BDL	0.00500	mg/L							
Barium	BDL	0.00500	mg/L							
Cadmium	BDL	0.000500	mg/L							
Chromium	BDL	0.00500	mg/L							
Lead	BDL	0.00500	mg/L							
Selenium	BDL	0.0100	mg/L							
Silver	BDL	0.000500	mg/L							
LCS (1030149-BS1)				Prepared & Analyzed: 07/21/10						
Arsenic	1.03	0.00500	mg/L	1.000		103	85-115			
Barium	0.987	0.00500	mg/L	1.000		98.7	85-115			
Cadmium	1.00	0.000500	mg/L	1.000		100	85-115			
Chromium	1.02	0.00500	mg/L	1.000		102	85-115			
Lead	1.02	0.00500	mg/L	1.000		102	85-115			
lenium	1.03	0.0100	mg/L	1.000		103	85-115			
silver	1.02	0.000500	mg/L	1.000		102	85-115			
LCS Dup (1030149-BSD1)				Prepared & Analyzed: 07/21/10						
Arsenic	1.03	0.00500	mg/L	1.000		103	85-115	0.00	20	
Barium	0.991	0.00500	mg/L	1.000		99.1	85-115	0.404	20	
Cadmium	1.00	0.000500	mg/L	1.000		100	85-115	0.00	20	
Chromium	1.02	0.00500	mg/L	1.000		102	85-115	0.00	20	
Lead	1.02	0.00500	mg/L	1.000		102	85-115	0.00	20	
Selenium	1.03	0.0100	mg/L	1.000		103	85-115	0.00	20	
Silver	1.01	0.000500	mg/L	1.000		101	85-115	0.985	20	
Duplicate (1030149-DUP1)		**Source: 10G0396-01**		Prepared & Analyzed: 07/21/10						
Arsenic	0.0406	0.00500	mg/L		0.0508			22.3	20	R
Barium	0.223	0.00500	mg/L		0.227			1.78	20	
Cadmium	0.00128	0.000500	mg/L		0.00116			9.84	20	
Chromium	0.0246	0.00500	mg/L		0.0257			4.37	20	
Lead	0.0104	0.00500	mg/L		0.00892			15.3	20	
Selenium	BDL	0.0100	mg/L		ND				20	
Silver	BDL	0.000500	mg/L		ND				20	

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030149 - PREP_ICP_W										
Matrix Spike (1030149-MS1)	**Source: 10G0485-23**			Prepared & Analyzed: 07/21/10						
Arsenic	1.01	0.00500	mg/L	1.000	ND	101	75-125			
Barium	0.960	0.00500	mg/L	1.000	ND	96.0	75-125			
Cadmium	0.980	0.000500	mg/L	1.000	ND	98.0	75-125			
Chromium	1.00	0.00500	mg/L	1.000	0.00214	99.8	75-125			
Lead	0.996	0.00500	mg/L	1.000	ND	99.6	75-125			
Selenium	1.01	0.0100	mg/L	1.000	0.00232	101	75-125			
Silver	0.984	0.000500	mg/L	1.000	0.000490	98.4	75-125			
Matrix Spike Dup (1030149-MSD1)	**Source: 10G0485-23**			Prepared & Analyzed: 07/21/10						
Arsenic	1.02	0.00500	mg/L	1.000	ND	102	75-125	0.985	20	
Barium	0.960	0.00500	mg/L	1.000	ND	96.0	75-125	0.00	20	
Cadmium	0.986	0.000500	mg/L	1.000	ND	98.6	75-125	0.610	20	
Chromium	1.01	0.00500	mg/L	1.000	0.00214	101	75-125	0.995	20	
Lead	1.00	0.00500	mg/L	1.000	ND	100	75-125	0.401	20	
Selenium	1.01	0.0100	mg/L	1.000	0.00232	101	75-125	0.00	20	
Silver	0.994	0.000500	mg/L	1.000	0.000490	99.4	75-125	1.01	20	
Post Spike (1030149-PS1)	**Source: 10G0485-23**			Prepared & Analyzed: 07/21/10						
Arsenic	0.794		mg/L	1.000	0.00155	79.2	0-200			
Barium	0.969		mg/L	1.000	-0.00150	97.0	0-200			
Cadmium	0.987		mg/L	1.000	-0.0000800	98.7	0-200			
Chromium	1.01		mg/L	1.000	0.00214	101	0-200			
Lead	1.00		mg/L	1.000	0.000840	99.9	0-200			
Selenium	1.01		mg/L	1.000	0.00232	101	0-200			
Silver	0.986		mg/L	1.000	0.000490	98.6	0-200			
Batch 1031001 - PREP_ICP_S										
Blank (1031001-BLK1)				Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	BDL	1.00	mg/kg wet							
Barium	BDL	1.00	mg/kg wet							
Cadmium	BDL	0.100	mg/kg wet							
Chromium	BDL	1.00	mg/kg wet							
Lead	BDL	1.00	mg/kg wet							
Selenium	BDL	5.00	mg/kg wet							
Silver	BDL	1.00	mg/kg wet							

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031001 - PREP_ICP_S										
LCS (1031001-BS1)				Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	101	1.00	mg/kg wet	100.0		101	80-120			
Barium	98.5	1.00	mg/kg wet	100.0		98.5	80-120			
Cadmium	98.7	0.100	mg/kg wet	100.0		98.7	80-120			
Chromium	101	1.00	mg/kg wet	100.0		101	80-120			
Lead	100	1.00	mg/kg wet	100.0		100	80-120			
Selenium	101	5.00	mg/kg wet	100.0		101	80-120			
Silver	98.9	1.00	mg/kg wet	100.0		98.9	80-120			
LCS Dup (1031001-BSD1)				Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	102	1.00	mg/kg wet	100.0		102	80-120	0.985	20	
Barium	98.7	1.00	mg/kg wet	100.0		98.7	80-120	0.203	20	
Cadmium	99.1	0.100	mg/kg wet	100.0		99.1	80-120	0.404	20	
Chromium	101	1.00	mg/kg wet	100.0		101	80-120	0.00	20	
Lead	101	1.00	mg/kg wet	100.0		101	80-120	0.995	20	
lenium	102	5.00	mg/kg wet	100.0		102	80-120	0.985	20	
ilver	98.9	1.00	mg/kg wet	100.0		98.9	80-120	0.00	20	
Duplicate (1031001-DUP1)		**Source: 10G0539-02**		Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	10.4	1.18	mg/kg dry		9.26			11.7	20	
Barium	67.6	1.18	mg/kg dry		59.7			12.4	20	
Cadmium	0.539	0.118	mg/kg dry		0.478			12.1	20	
Chromium	11.7	1.18	mg/kg dry		11.2			4.52	20	
Lead	39.1	1.18	mg/kg dry		39.6			1.28	20	
Selenium	0.782	5.89	mg/kg dry		0.698			11.3	20	
Silver	BDL	1.18	mg/kg dry		ND				20	
Matrix Spike (1031001-MS1)		**Source: 10G0520-01**		Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	104	1.10	mg/kg dry	109.5	2.98	92.1	75-125			
Barium	111	1.10	mg/kg dry	109.5	14.2	88.0	75-125			
Cadmium	91.7	0.110	mg/kg dry	109.5	0.166	83.5	75-125			
Chromium	110	1.10	mg/kg dry	109.5	9.40	91.4	75-125			
Lead	104	1.10	mg/kg dry	109.5	8.20	87.3	75-125			
Selenium	99.2	5.48	mg/kg dry	109.5	1.84	88.9	75-125			
Silver	102	1.10	mg/kg dry	109.5	0.165	93.1	75-125			

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031001 - PREP_ICP_S										
Matrix Spike Dup (1031001-MSD1)	**Source: 10G0520-01**			Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	106	1.12	mg/kg dry	111.9	2.98	92.0	75-125	2.04	20	
Barium	113	1.12	mg/kg dry	111.9	14.2	88.3	75-125	2.15	20	
Cadmium	94.5	0.112	mg/kg dry	111.9	0.166	84.3	75-125	2.98	20	
Chromium	107	1.12	mg/kg dry	111.9	9.40	86.8	75-125	2.77	20	
Lead	105	1.12	mg/kg dry	111.9	8.20	86.1	75-125	0.663	20	
Selenium	102	5.60	mg/kg dry	111.9	1.84	89.7	75-125	2.92	20	
Silver	105	1.12	mg/kg dry	111.9	0.165	93.9	75-125	2.90	20	
Post Spike (1031001-PS1)	**Source: 10G0520-01**			Prepared: 07/23/10 Analyzed: 07/25/10						
Arsenic	0.888		mg/L	1.000	0.0260	86.2	0-200			
Barium	1.00		mg/L	1.000	0.124	87.6	0-200			
Chromium	0.986		mg/L	1.000	0.0821	90.4	0-200			
Lead	0.985		mg/L	1.000	0.0717	91.3	0-200			
Selenium	0.926		mg/L	1.000	0.0161	91.0	0-200			
Silver	0.924		mg/L	1.000	0.00145	92.3	0-200			

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Mercury Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031003 - PREP_HG_S										
Blank (1031003-BLK1)				Prepared: 07/23/10 Analyzed: 07/26/10						
Mercury	BDL	0.100	mg/kg wet							
LCS (1031003-BS1)				Prepared: 07/23/10 Analyzed: 07/26/10						
Mercury	0.867	0.100	mg/kg wet	0.8333		104	80-120			
LCS Dup (1031003-BSD1)				Prepared: 07/23/10 Analyzed: 07/26/10						
Mercury	0.858	0.100	mg/kg wet	0.8333		103	80-120	1	20	
Matrix Spike (1031003-MS1)		Source: 10G0520-01		Prepared: 07/23/10 Analyzed: 07/26/10						
Mercury	0.817	0.0981	mg/kg dry	0.8172	ND	100	70-130			
Matrix Spike Dup (1031003-MSD1)		Source: 10G0520-01		Prepared: 07/23/10 Analyzed: 07/26/10						
Mercury	0.855	0.0996	mg/kg dry	0.8304	ND	103	70-130	5	30	
Batch 1031043 - PREP_HG_W										
Blank (1031043-BLK1)				Prepared & Analyzed: 07/26/10						
Mercury	BDL	0.000200	mg/L							
LCS (1031043-BS1)				Prepared & Analyzed: 07/26/10						
Mercury	0.00615	0.000200	mg/L	0.006250		98	80-120			
LCS Dup (1031043-BSD1)				Prepared & Analyzed: 07/26/10						
Mercury	0.00611	0.000200	mg/L	0.006250		98	80-120	0.7	20	
Matrix Spike (1031043-MS1)		Source: 10G0539-13		Prepared & Analyzed: 07/26/10						
Mercury	0.00617	0.000200	mg/L	0.006250	ND	99	70-130			

Mercury Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031043 - PREP_HG_W										
Matrix Spike Dup (1031043-MSD1)	**Source: 10G0539-13**			Prepared & Analyzed: 07/26/10						
Mercury	0.00629	0.000200	mg/L	0.006250	ND	101	70-130	2	30	

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029132 - PREP_PP_W										
Blank (1029132-BLK1)				Prepared: 07/14/10 Analyzed: 07/17/10						
Aroclor 1016	BDL	0.500	ug/L							
Aroclor 1221	BDL	0.500	ug/L							
Aroclor 1232	BDL	0.500	ug/L							
Aroclor 1242	BDL	0.500	ug/L							
Aroclor 1248	BDL	0.500	ug/L							
Aroclor 1254	BDL	0.500	ug/L							
Aroclor 1260	BDL	0.500	ug/L							
Surrogate: Decachlorobiphenyl	*1.24*		*ug/L*	*1.000*		*124*	*36-157*			
Surrogate: Tetrachloro-m-xylene	*0.700*		*ug/L*	*1.000*		*70.0*	*28-127*			
LCS (1029132-BS1)				Prepared: 07/14/10 Analyzed: 07/17/10						
Aroclor 1016	10.8	0.500	ug/L	10.00		108	50-170			
Aroclor 1260	9.19	0.500	ug/L	10.00		91.9	53-163			
urrogate: Decachlorobiphenyl	*1.23*		*ug/L*	*1.000*		*123*	*36-157*			
urrogate: Tetrachloro-m-xylene	*0.760*		*ug/L*	*1.000*		*76.0*	*28-127*			
LCS Dup (1029132-BSD1)				Prepared: 07/14/10 Analyzed: 07/17/10						
Aroclor 1016	10.0	0.500	ug/L	10.00		100	50-170	7.03	19	
Aroclor 1260	9.43	0.500	ug/L	10.00		94.3	53-163	2.58	22	
Surrogate: Decachlorobiphenyl	*1.37*		*ug/L*	*1.000*		*137*	*36-157*			
Surrogate: Tetrachloro-m-xylene	*0.750*		*ug/L*	*1.000*		*75.0*	*28-127*			
Batch 1030005 - PREP_PP_S										
Blank (1030005-BLK1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Aroclor 1016	BDL	0.0200	mg/kg wet							
Aroclor 1221	BDL	0.0200	mg/kg wet							
Aroclor 1232	BDL	0.0200	mg/kg wet							
Aroclor 1242	BDL	0.0200	mg/kg wet							
Aroclor 1248	BDL	0.0200	mg/kg wet							
Aroclor 1254	BDL	0.0200	mg/kg wet							
Aroclor 1260	BDL	0.0200	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0400*		*mg/kg wet*	*0.03333*		*120*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0367*		*mg/kg wet*	*0.03333*		*110*	*47-125*			

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030005 - PREP_PP_S										
LCS (1030005-BS1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Aroclor 1016	0.320	0.0200	mg/kg wet	0.3333		96.1	51-168			
Aroclor 1260	0.356	0.0200	mg/kg wet	0.3333		107	51-173			
Surrogate: Decachlorobiphenyl	*0.0497*		*mg/kg wet*	*0.03333*		*149*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0367*		*mg/kg wet*	*0.03333*		*110*	*47-125*			
LCS Dup (1030005-BSD1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Aroclor 1016	0.321	0.0200	mg/kg wet	0.3333		96.2	51-168	0.104	24	
Aroclor 1260	0.334	0.0200	mg/kg wet	0.3333		100	51-173	6.38	25	
Surrogate: Decachlorobiphenyl	*0.0420*		*mg/kg wet*	*0.03333*		*126*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0347*		*mg/kg wet*	*0.03333*		*104*	*47-125*			
Batch 1030136 - PREP_PP_S										
Blank (1030136-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Aroclor 1016	BDL	0.0200	mg/kg wet							
Aroclor 1221	BDL	0.0200	mg/kg wet							
Aroclor 1232	BDL	0.0200	mg/kg wet							
Aroclor 1242	BDL	0.0200	mg/kg wet							
Aroclor 1248	BDL	0.0200	mg/kg wet							
Aroclor 1254	BDL	0.0200	mg/kg wet							
Aroclor 1260	BDL	0.0200	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0450*		*mg/kg wet*	*0.03333*		*135*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0387*		*mg/kg wet*	*0.03333*		*116*	*47-125*			
LCS (1030136-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Aroclor 1016	0.357	0.0200	mg/kg wet	0.3333		107	51-168			
Aroclor 1260	0.345	0.0200	mg/kg wet	0.3333		104	51-173			
Surrogate: Decachlorobiphenyl	*0.0437*		*mg/kg wet*	*0.03333*		*131*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0370*		*mg/kg wet*	*0.03333*		*111*	*47-125*			

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030136 - PREP_PP_S										
LCS Dup (1030136-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Aroclor 1016	0.359	0.0200	mg/kg wet	0.3333		108	51-168	0.558	24	
Aroclor 1260	0.357	0.0200	mg/kg wet	0.3333		107	51-173	3.23	25	
Surrogate: Decachlorobiphenyl	*0.0437*		*mg/kg wet*	*0.03333*		*131*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0367*		*mg/kg wet*	*0.03333*		*110*	*47-125*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
Blank (1030249-BLK1)				Prepared & Analyzed: 07/20/10						
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2-Butanone	BDL	20.0	ug/L							
2-Chlorotoluene	BDL	5.00	ug/L							
2-Hexanone	BDL	20.0	ug/L							
Chlorotoluene	BDL	5.00	ug/L							
ethyl-2-pentanone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
Allyl chloride	BDL	5.00	ug/L							
Benzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
cis-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
-Xylene	BDL	10.0	ug/L							
n-Butylbenzene	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
Blank (1030249-BLK1)				Prepared & Analyzed: 07/20/10						
n-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.2*		*ug/L*	*50.00*		*112*	*41-140*			
Surrogate: Dibromofluoromethane	*58.3*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*62.1*		*ug/L*	*50.00*		*124*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*57.0*		*ug/L*	*50.00*		*114*	*29-163*			
S (1030249-BS1)				Prepared & Analyzed: 07/20/10						
1,1,1,2-Tetrachloroethane	20.4	5.00	ug/L	20.00		102	78-128			
1,1,1-Trichloroethane	19.2	5.00	ug/L	20.00		96.2	70-135			
1,1,2,2-Tetrachloroethane	19.6	5.00	ug/L	20.00		98.2	68-135			
1,1,2-Trichloroethane	19.6	5.00	ug/L	20.00		98.1	74-131			
1,1-Dichloroethane	18.9	5.00	ug/L	20.00		94.4	72-134			
1,1-Dichloroethene	16.5	5.00	ug/L	20.00		82.7	62-143			
1,1-Dichloropropene	18.3	5.00	ug/L	20.00		91.4	82-128			
1,2-Dibromoethane	18.3	5.00	ug/L	20.00		91.6	67-132			
1,2-Dichloroethane	18.1	5.00	ug/L	20.00		90.3	72-131			
1,2-Dichloropropane	19.1	5.00	ug/L	20.00		95.4	75-128			
1,3-Dichloropropane	18.8	5.00	ug/L	20.00		93.8	73-130			
2,2-Dichloropropane	19.9	5.00	ug/L	20.00		99.4	45-173			
2-Butanone	62.7	20.0	ug/L	80.00		78.3	42-140			
2-Chlorotoluene	21.0	5.00	ug/L	20.00		105	76-126			
2-Hexanone	72.4	20.0	ug/L	80.00		90.5	18-178			
4-Chlorotoluene	21.6	5.00	ug/L	20.00		108	77-132			
4-Methyl-2-pentanone	77.4	20.0	ug/L	80.00		96.8	42-160			
Acetone	63.8	20.0	ug/L	80.00		79.8	30-173			
Acetonitrile	18.5	40.0	ug/L	20.00		92.3	58-150			
Acrylonitrile	17.7	20.0	ug/L	20.00		88.5	64-153			
Allyl chloride	21.4	5.00	ug/L	20.00		107	67-149			
Benzene	18.5	5.00	ug/L	20.00		92.5	77-126			
Bromobenzene	20.8	5.00	ug/L	20.00		104	72-131			
Bromochloromethane	18.8	5.00	ug/L	20.00		93.8	71-135			
Bromodichloromethane	19.2	5.00	ug/L	20.00		96.0	78-129			
Bromoform	17.7	5.00	ug/L	20.00		88.6	69-135			
momethane	23.6	5.00	ug/L	20.00		118	14-193			
Carbon Disulfide	10.6	20.0	ug/L	20.00		52.8	54-150			A-01a

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
LCS (1030249-BS1)				Prepared & Analyzed: 07/20/10						
Carbon Tetrachloride	17.7	5.00	ug/L	20.00		88.4	67-138			
Chlorobenzene	20.3	5.00	ug/L	20.00		101	77-125			
Chloroethane	19.5	5.00	ug/L	20.00		97.5	27-170			
Chloroform	18.9	5.00	ug/L	20.00		94.6	73-136			
Chloromethane	25.8	5.00	ug/L	20.00		129	44-145			
cis-1,2-Dichloroethene	17.7	5.00	ug/L	20.00		88.6	77-137			
cis-1,3-Dichloropropene	18.8	5.00	ug/L	20.00		94.2	70-133			
Dibromochloromethane	19.3	5.00	ug/L	20.00		96.4	68-131			
Dibromomethane	18.8	5.00	ug/L	20.00		94.2	74-129			
Dichlorodifluoromethane	18.6	5.00	ug/L	20.00		93.0	41-145			
Ethylbenzene	19.8	5.00	ug/L	20.00		99.2	79-126			
Iodomethane	15.8	10.0	ug/L	20.00		79.1	52-150			
Methylene Chloride	18.7	5.00	ug/L	20.00		93.7	43-162			
Methyl tert-Butyl Ether	17.4	10.0	ug/L	20.00		87.2	63-134			
m,p-Xylene	41.7	10.0	ug/L	40.00		104	82-132			
Butylbenzene	24.7	5.00	ug/L	20.00		124	80-135			
exane	20.7	5.00	ug/L	20.00		103	10-216			
o-Xylene	21.0	5.00	ug/L	20.00		105	81-128			
Styrene	21.2	5.00	ug/L	20.00		106	81-129			
Tetrachloroethene	17.6	5.00	ug/L	20.00		87.9	43-152			
Toluene	19.5	5.00	ug/L	20.00		97.6	79-128			
trans-1,2-Dichloroethene	17.0	5.00	ug/L	20.00		85.0	60-144			
trans-1,3-Dichloropropene	19.8	5.00	ug/L	20.00		99.0	67-138			
Trichloroethene	19.2	5.00	ug/L	20.00		96.2	74-132			
Trichlorofluoromethane	23.7	5.00	ug/L	20.00		119	48-170			
Vinyl Chloride	20.9	1.00	ug/L	20.00		105	60-143			
Vinyl acetate	15.5	10.0	ug/L	20.00		77.4	16-196			
Surrogate: 4-Bromofluorobenzene	*59.5*		*ug/L*	*50.00*		*119*	*41-140*			
Surrogate: Dibromofluoromethane	*58.4*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*62.9*		*ug/L*	*50.00*		*126*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*55.2*		*ug/L*	*50.00*		*110*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
LCS Dup (1030249-BSD1)				Prepared & Analyzed: 07/20/10						
1,1,1,2-Tetrachloroethane	21.5	5.00	ug/L	20.00		107	78-128	4.82	16	
1,1,1-Trichloroethane	20.7	5.00	ug/L	20.00		103	70-135	7.07	20	
1,1,2,2-Tetrachloroethane	20.3	5.00	ug/L	20.00		101	68-135	3.31	19	
1,1,2-Trichloroethane	20.5	5.00	ug/L	20.00		102	74-131	4.39	16	
1,1-Dichloroethane	20.8	5.00	ug/L	20.00		104	72-134	9.58	19	
1,1-Dichloroethene	17.9	5.00	ug/L	20.00		89.4	62-143	7.73	20	
1,1-Dichloropropene	19.3	5.00	ug/L	20.00		96.4	82-128	5.43	18	
1,2-Dibromoethane	19.0	5.00	ug/L	20.00		95.2	67-132	3.86	13	
1,2-Dichloroethane	19.1	5.00	ug/L	20.00		95.4	72-131	5.49	16	
1,2-Dichloropropane	20.5	5.00	ug/L	20.00		102	75-128	7.18	19	
1,3-Dichloropropane	19.9	5.00	ug/L	20.00		99.6	73-130	6.05	13	
2,2-Dichloropropane	21.6	5.00	ug/L	20.00		108	45-173	8.11	25	
2-Butanone	66.3	20.0	ug/L	80.00		82.8	42-140	5.60	18	
2-Chlorotoluene	22.2	5.00	ug/L	20.00		111	76-126	5.51	20	
2-Hexanone	75.8	20.0	ug/L	80.00		94.7	18-178	4.55	17	
4-Chlorotoluene	23.2	5.00	ug/L	20.00		116	77-132	7.33	22	
4-Methyl-2-pentanone	79.4	20.0	ug/L	80.00		99.2	42-160	2.53	67	
Acetone	68.5	20.0	ug/L	80.00		85.6	30-173	7.00	24	
Acetonitrile	18.7	40.0	ug/L	20.00		93.7	58-150	1.51	25	
Acrylonitrile	18.3	20.0	ug/L	20.00		91.4	64-153	3.22	20	
Allyl chloride	23.3	5.00	ug/L	20.00		117	67-149	8.72	16	
Benzene	19.1	5.00	ug/L	20.00		95.6	77-126	3.24	19	
Bromobenzene	22.1	5.00	ug/L	20.00		111	72-131	5.96	20	
Bromochloromethane	20.5	5.00	ug/L	20.00		103	71-135	9.11	16	
Bromodichloromethane	20.8	5.00	ug/L	20.00		104	78-129	7.76	17	
Bromoform	18.2	5.00	ug/L	20.00		91.0	69-135	2.62	18	
Bromomethane	26.1	5.00	ug/L	20.00		131	14-193	10.3	28	
Carbon Disulfide	11.9	20.0	ug/L	20.00		59.4	54-150	11.8	19	
Carbon Tetrachloride	18.9	5.00	ug/L	20.00		94.4	67-138	6.51	21	
Chlorobenzene	21.6	5.00	ug/L	20.00		108	77-125	6.49	19	
Chloroethane	20.7	5.00	ug/L	20.00		103	27-170	5.78	64	
Chloroform	20.9	5.00	ug/L	20.00		105	73-136	10.1	19	
Chloromethane	27.0	5.00	ug/L	20.00		135	44-145	4.28	26	
cis-1,2-Dichloroethene	19.7	5.00	ug/L	20.00		98.4	77-137	10.4	17	
cis-1,3-Dichloropropene	20.3	5.00	ug/L	20.00		101	70-133	7.36	19	
Dibromochloromethane	20.0	5.00	ug/L	20.00		100	68-131	3.67	18	
Dibromomethane	19.8	5.00	ug/L	20.00		99.0	74-129	4.97	16	
Dichlorodifluoromethane	19.0	5.00	ug/L	20.00		94.9	41-145	2.08	15	
Ethylbenzene	21.1	5.00	ug/L	20.00		105	79-126	6.11	20	
Iodomethane	18.3	10.0	ug/L	20.00		91.6	52-150	14.7	25	
Methylene Chloride	20.7	5.00	ug/L	20.00		104	43-162	10.1	28	
Methyl tert-Butyl Ether	18.7	10.0	ug/L	20.00		93.7	63-134	7.13	20	
m,p-Xylene	43.8	10.0	ug/L	40.00		110	82-132	4.91	18	
n-Butylbenzene	25.9	5.00	ug/L	20.00		130	80-135	4.82	18	
n-Hexane	20.1	5.00	ug/L	20.00		101	10-216	2.70	64	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030249 - VOC PREP										
LCS Dup (1030249-BSD1)				Prepared & Analyzed: 07/20/10						
o-Xylene	22.2	5.00	ug/L	20.00		111	81-128	5.69	19	
Styrene	22.9	5.00	ug/L	20.00		115	81-129	7.61	17	
Tetrachloroethene	19.0	5.00	ug/L	20.00		95.2	43-152	7.92	29	
Toluene	21.0	5.00	ug/L	20.00		105	79-128	7.26	19	
trans-1,2-Dichloroethene	18.7	5.00	ug/L	20.00		93.6	60-144	9.63	20	
trans-1,3-Dichloropropene	20.8	5.00	ug/L	20.00		104	67-138	4.68	17	
Trichloroethene	20.8	5.00	ug/L	20.00		104	74-132	7.88	20	
Trichlorofluoromethane	24.3	5.00	ug/L	20.00		122	48-170	2.46	50	
Vinyl Chloride	22.2	1.00	ug/L	20.00		111	60-143	5.76	19	
Vinyl acetate	16.4	10.0	ug/L	20.00		81.8	16-196	5.53	45	
Surrogate: 4-Bromofluorobenzene	*59.2*		*ug/L*	*50.00*		*118*	*41-140*			
Surrogate: Dibromofluoromethane	*59.8*		*ug/L*	*50.00*		*120*	*34-158*			
Surrogate: Toluene-d8	*63.8*		*ug/L*	*50.00*		*128*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*57.0*		*ug/L*	*50.00*		*114*	*29-163*			
ch 1030282 - VOC PREP										
Blank (1030282-BLK1)				Prepared & Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2-Butanone	BDL	20.0	ug/L							
[illegible]one	BDL	20.0	ug/L							
2-[illegible]orotoluene	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
Blank (1030282-BLK1)				Prepared & Analyzed: 07/21/10						
2-Chlorotoluene	BDL	5.00	ug/L							
2-Hexanone	BDL	20.0	ug/L							
2-Hexanone	BDL	20.0	ug/L							
4-Chlorotoluene	BDL	5.00	ug/L							
4-Chlorotoluene	BDL	5.00	ug/L							
4-Methyl-2-pentanone	BDL	20.0	ug/L							
4-Methyl-2-pentanone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
rylonitrile	BDL	20.0	ug/L							
yl chloride	BDL	5.00	ug/L							
Allyl chloride	BDL	5.00	ug/L							
Benzene	BDL	5.00	ug/L							
Benzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
is-1,2-Dichloroethene	BDL	5.00	ug/L							
-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
Blank (1030282-BLK1)				Prepared & Analyzed: 07/21/10						
Dibromochloromethane	BDL	5.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
m,p-Xylene	BDL	10.0	ug/L							
-Xylene	BDL	10.0	ug/L							
utylbenzene	BDL	5.00	ug/L							
n-Hexane	BDL	5.00	ug/L							
n-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.5*		*ug/L*	*50.00*		*113*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*56.5*		*ug/L*	*50.00*		*113*	*41-140*			
Surrogate: Dibromofluoromethane	*58.6*		*ug/L*	*50.00*		*117*	*34-158*			
ogate: Dibromofluoromethane	*58.6*		*ug/L*	*50.00*		*117*	*34-158*			
ogate: Toluene-d8	*62.4*		*ug/L*	*50.00*		*125*	*47-147*			
Surrogate: Toluene-d8	*62.4*		*ug/L*	*50.00*		*125*	*47-147*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
Blank (1030282-BLK1)				Prepared & Analyzed: 07/21/10						
Surrogate: 1,2-Dichloroethane-d4	*56.5*		*ug/L*	*50.00*		*113*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*56.5*		*ug/L*	*50.00*		*113*	*29-163*			
LCS (1030282-BS1)				Prepared & Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	21.3	5.00	ug/L	20.00		106	78-128			
1,1,1,2-Tetrachloroethane	21.3	5.00	ug/L	20.00		106	78-128			
1,1,1-Trichloroethane	20.4	5.00	ug/L	20.00		102	70-135			
1,1,1-Trichloroethane	20.4	5.00	ug/L	20.00		102	70-135			
1,1,2,2-Tetrachloroethane	19.8	5.00	ug/L	20.00		99.0	68-135			
1,1,2,2-Tetrachloroethane	19.8	5.00	ug/L	20.00		99.0	68-135			
1,1,2-Trichloroethane	20.1	5.00	ug/L	20.00		100	74-131			
1,1,2-Trichloroethane	20.1	5.00	ug/L	20.00		100	74-131			
1,1-Dichloroethane	19.9	5.00	ug/L	20.00		99.6	72-134			
1,1-Dichloroethane	19.9	5.00	ug/L	20.00		99.6	72-134			
1-Dichloroethene	18.5	5.00	ug/L	20.00		92.4	62-143			
1,1-Dichloroethene	18.5	5.00	ug/L	20.00		92.4	62-143			
1,1-Dichloropropene	18.3	5.00	ug/L	20.00		91.6	82-128			
1,1-Dichloropropene	18.3	5.00	ug/L	20.00		91.6	82-128			
1,2-Dibromoethane	18.6	5.00	ug/L	20.00		92.8	67-132			
1,2-Dibromoethane	18.6	5.00	ug/L	20.00		92.8	67-132			
1,2-Dichloroethane	18.3	5.00	ug/L	20.00		91.6	72-131			
1,2-Dichloroethane	18.3	5.00	ug/L	20.00		91.6	72-131			
1,2-Dichloropropane	19.4	5.00	ug/L	20.00		97.2	75-128			
1,2-Dichloropropane	19.4	5.00	ug/L	20.00		97.2	75-128			
1,3-Dichloropropane	19.1	5.00	ug/L	20.00		95.3	73-130			
1,3-Dichloropropane	19.1	5.00	ug/L	20.00		95.3	73-130			
2,2-Dichloropropane	21.3	5.00	ug/L	20.00		106	45-173			
2,2-Dichloropropane	21.3	5.00	ug/L	20.00		106	45-173			
2-Butanone	64.0	20.0	ug/L	80.00		80.0	42-140			
2-Butanone	64.0	20.0	ug/L	80.00		80.0	42-140			
2-Chlorotoluene	21.7	5.00	ug/L	20.00		108	76-126			
2-Chlorotoluene	21.7	5.00	ug/L	20.00		108	76-126			
2-Hexanone	73.6	20.0	ug/L	80.00		91.9	18-178			
2-Hexanone	73.6	20.0	ug/L	80.00		91.9	18-178			
4-Chlorotoluene	22.5	5.00	ug/L	20.00		113	77-132			
4-Chlorotoluene	22.5	5.00	ug/L	20.00		113	77-132			
4-Methyl-2-pentanone	78.5	20.0	ug/L	80.00		98.2	42-160			
4-Methyl-2-pentanone	78.5	20.0	ug/L	80.00		98.2	42-160			
Acetone	69.2	20.0	ug/L	80.00		86.4	30-173			
Acetone	69.2	20.0	ug/L	80.00		86.4	30-173			
Acetonitrile	19.3	40.0	ug/L	20.00		96.6	58-150			
Acetonitrile	19.3	40.0	ug/L	20.00		96.6	58-150			
Acrylonitrile	18.0	20.0	ug/L	20.00		89.8	64-153			
Acrylonitrile	18.0	20.0	ug/L	20.00		89.8	64-153			
Allyl chloride	22.0	5.00	ug/L	20.00		110	67-149			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
LCS (1030282-BS1)				Prepared & Analyzed: 07/21/10						
Allyl chloride	22.0	5.00	ug/L	20.00		110	67-149			
Benzene	18.7	5.00	ug/L	20.00		93.6	77-126			
Benzene	18.7	5.00	ug/L	20.00		93.6	77-126			
Bromobenzene	21.6	5.00	ug/L	20.00		108	72-131			
Bromobenzene	21.6	5.00	ug/L	20.00		108	72-131			
Bromochloromethane	19.4	5.00	ug/L	20.00		97.0	71-135			
Bromochloromethane	19.4	5.00	ug/L	20.00		97.0	71-135			
Bromodichloromethane	19.7	5.00	ug/L	20.00		98.4	78-129			
Bromodichloromethane	19.7	5.00	ug/L	20.00		98.4	78-129			
Bromoform	17.6	5.00	ug/L	20.00		87.8	69-135			
Bromoform	17.6	5.00	ug/L	20.00		87.8	69-135			
Bromomethane	23.4	5.00	ug/L	20.00		117	14-193			
Bromomethane	23.4	5.00	ug/L	20.00		117	14-193			
Carbon Disulfide	10.4	20.0	ug/L	20.00		52.0	54-150			A-01
Carbon Disulfide	10.4	20.0	ug/L	20.00		52.0	54-150			A-01
Carbon Tetrachloride	18.8	5.00	ug/L	20.00		94.0	67-138			
Carbon Tetrachloride	18.8	5.00	ug/L	20.00		94.0	67-138			
Chlorobenzene	20.6	5.00	ug/L	20.00		103	77-125			
Chlorobenzene	20.6	5.00	ug/L	20.00		103	77-125			
Chloroethane	17.9	5.00	ug/L	20.00		89.6	27-170			
Chloroethane	17.9	5.00	ug/L	20.00		89.6	27-170			
Chloroform	20.1	5.00	ug/L	20.00		101	73-136			
Chloroform	20.1	5.00	ug/L	20.00		101	73-136			
Chloromethane	22.2	5.00	ug/L	20.00		111	44-145			
Chloromethane	22.2	5.00	ug/L	20.00		111	44-145			
cis-1,2-Dichloroethene	18.3	5.00	ug/L	20.00		91.5	77-137			
cis-1,2-Dichloroethene	18.3	5.00	ug/L	20.00		91.5	77-137			
cis-1,3-Dichloropropene	18.8	5.00	ug/L	20.00		94.2	70-133			
cis-1,3-Dichloropropene	18.8	5.00	ug/L	20.00		94.2	70-133			
Dibromochloromethane	19.3	5.00	ug/L	20.00		96.6	68-131			
Dibromochloromethane	19.3	5.00	ug/L	20.00		96.6	68-131			
Dibromomethane	19.0	5.00	ug/L	20.00		95.0	74-129			
Dibromomethane	19.0	5.00	ug/L	20.00		95.0	74-129			
Dichlorodifluoromethane	15.8	5.00	ug/L	20.00		79.0	41-145			
Dichlorodifluoromethane	15.8	5.00	ug/L	20.00		79.0	41-145			
Ethylbenzene	20.2	5.00	ug/L	20.00		101	79-126			
Ethylbenzene	20.2	5.00	ug/L	20.00		101	79-126			
Iodomethane	17.6	10.0	ug/L	20.00		87.9	52-150			
Iodomethane	17.6	10.0	ug/L	20.00		87.9	52-150			
Methylene Chloride	20.2	5.00	ug/L	20.00		101	43-162			
Methylene Chloride	20.2	5.00	ug/L	20.00		101	43-162			
Methyl tert-Butyl Ether	18.0	10.0	ug/L	20.00		90.2	63-134			
Methyl tert-Butyl Ether	18.0	10.0	ug/L	20.00		90.2	63-134			
m,p-Xylene	42.4	10.0	ug/L	40.00		106	82-132			
m,p-Xylene	42.4	10.0	ug/L	40.00		106	82-132			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
LCS (1030282-BS1)				Prepared & Analyzed: 07/21/10						
n-Butylbenzene	25.8	5.00	ug/L	20.00		129	80-135			
n-Hexane	22.4	5.00	ug/L	20.00		112	10-216			
n-Hexane	22.4	5.00	ug/L	20.00		112	10-216			
o-Xylene	21.5	5.00	ug/L	20.00		108	81-128			
o-Xylene	21.5	5.00	ug/L	20.00		108	81-128			
Styrene	22.0	5.00	ug/L	20.00		110	81-129			
Styrene	22.0	5.00	ug/L	20.00		110	81-129			
Tetrachloroethene	17.9	5.00	ug/L	20.00		89.4	43-152			
Tetrachloroethene	17.9	5.00	ug/L	20.00		89.4	43-152			
Toluene	19.9	5.00	ug/L	20.00		99.6	79-128			
Toluene	19.9	5.00	ug/L	20.00		99.6	79-128			
trans-1,2-Dichloroethene	17.4	5.00	ug/L	20.00		87.2	60-144			
trans-1,2-Dichloroethene	17.4	5.00	ug/L	20.00		87.2	60-144			
trans-1,3-Dichloropropene	19.8	5.00	ug/L	20.00		98.8	67-138			
trans-1,3-Dichloropropene	19.8	5.00	ug/L	20.00		98.8	67-138			
ichloroethene	20.0	5.00	ug/L	20.00		100	74-132			
richloroethene	20.0	5.00	ug/L	20.00		100	74-132			
Trichlorofluoromethane	22.8	5.00	ug/L	20.00		114	48-170			
Trichlorofluoromethane	22.8	5.00	ug/L	20.00		114	48-170			
Vinyl Chloride	19.1	1.00	ug/L	20.00		95.5	60-143			
Vinyl Chloride	19.1	1.00	ug/L	20.00		95.5	60-143			
Vinyl acetate	15.7	10.0	ug/L	20.00		78.4	16-196			
Vinyl acetate	15.7	10.0	ug/L	20.00		78.4	16-196			
Surrogate: 4-Bromofluorobenzene	*58.9*		*ug/L*	*50.00*		*118*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*58.9*		*ug/L*	*50.00*		*118*	*41-140*			
Surrogate: Dibromofluoromethane	*58.3*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Dibromofluoromethane	*58.3*		*ug/L*	*50.00*		*117*	*34-158*			
Surrogate: Toluene-d8	*63.0*		*ug/L*	*50.00*		*126*	*47-147*			
Surrogate: Toluene-d8	*63.0*		*ug/L*	*50.00*		*126*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*54.8*		*ug/L*	*50.00*		*110*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*54.8*		*ug/L*	*50.00*		*110*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
LCS Dup (1030282-BSD1)				Prepared & Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	21.3	5.00	ug/L	20.00		106	78-128	0.0470	16	
1,1,1,2-Tetrachloroethane	21.3	5.00	ug/L	20.00		106	78-128	0.0470	16	
1,1,1-Trichloroethane	20.6	5.00	ug/L	20.00		103	70-135	0.781	20	
1,1,1-Trichloroethane	20.6	5.00	ug/L	20.00		103	70-135	0.781	20	
1,1,2,2-Tetrachloroethane	19.8	5.00	ug/L	20.00		98.8	68-135	0.202	19	
1,1,2,2-Tetrachloroethane	19.8	5.00	ug/L	20.00		98.8	68-135	0.202	19	
1,1,2-Trichloroethane	20.3	5.00	ug/L	20.00		101	74-131	1.04	16	
1,1,2-Trichloroethane	20.3	5.00	ug/L	20.00		101	74-131	1.04	16	
1,1-Dichloroethane	20.2	5.00	ug/L	20.00		101	72-134	1.30	19	
1,1-Dichloroethane	20.2	5.00	ug/L	20.00		101	72-134	1.30	19	
1,1-Dichloroethene	18.7	5.00	ug/L	20.00		93.5	62-143	1.24	20	
1,1-Dichloroethene	18.7	5.00	ug/L	20.00		93.5	62-143	1.24	20	
1,1-Dichloropropene	18.8	5.00	ug/L	20.00		94.0	82-128	2.53	18	
1,1-Dichloropropene	18.8	5.00	ug/L	20.00		94.0	82-128	2.53	18	
1,2-Dibromoethane	18.3	5.00	ug/L	20.00		91.6	67-132	1.25	13	
1,2-Dibromoethane	18.3	5.00	ug/L	20.00		91.6	67-132	1.25	13	
1,2-Dichloroethane	18.5	5.00	ug/L	20.00		92.4	72-131	0.924	16	
1,2-Dichloroethane	18.5	5.00	ug/L	20.00		92.4	72-131	0.924	16	
1,2-Dichloropropane	19.9	5.00	ug/L	20.00		99.4	75-128	2.24	19	
1,2-Dichloropropane	19.9	5.00	ug/L	20.00		99.4	75-128	2.24	19	
1,3-Dichloropropane	19.3	5.00	ug/L	20.00		96.5	73-130	1.25	13	
1,3-Dichloropropane	19.3	5.00	ug/L	20.00		96.5	73-130	1.25	13	
2,2-Dichloropropane	21.4	5.00	ug/L	20.00		107	45-173	0.515	25	
2,2-Dichloropropane	21.4	5.00	ug/L	20.00		107	45-173	0.515	25	
2-Butanone	63.8	20.0	ug/L	80.00		79.7	42-140	0.376	18	
2-Butanone	63.8	20.0	ug/L	80.00		79.7	42-140	0.376	18	
2-Chlorotoluene	21.9	5.00	ug/L	20.00		110	76-126	1.10	20	
2-Chlorotoluene	21.9	5.00	ug/L	20.00		110	76-126	1.10	20	
2-Hexanone	73.3	20.0	ug/L	80.00		91.6	18-178	0.340	17	
2-Hexanone	73.3	20.0	ug/L	80.00		91.6	18-178	0.340	17	
4-Chlorotoluene	22.9	5.00	ug/L	20.00		115	77-132	1.67	22	
4-Chlorotoluene	22.9	5.00	ug/L	20.00		115	77-132	1.67	22	
4-Methyl-2-pentanone	77.8	20.0	ug/L	80.00		97.3	42-160	0.882	67	
4-Methyl-2-pentanone	77.8	20.0	ug/L	80.00		97.3	42-160	0.882	67	
Acetone	68.3	20.0	ug/L	80.00		85.4	30-173	1.24	24	
Acetone	68.3	20.0	ug/L	80.00		85.4	30-173	1.24	24	
Acetonitrile	18.0	40.0	ug/L	20.00		90.0	58-150	6.97	25	
Acetonitrile	18.0	40.0	ug/L	20.00		90.0	58-150	6.97	25	
Acrylonitrile	17.9	20.0	ug/L	20.00		89.7	64-153	0.111	20	
Acrylonitrile	17.9	20.0	ug/L	20.00		89.7	64-153	0.111	20	
Allyl chloride	22.4	5.00	ug/L	20.00		112	67-149	2.07	16	
Allyl chloride	22.4	5.00	ug/L	20.00		112	67-149	2.07	16	
Benzene	19.2	5.00	ug/L	20.00		95.8	77-126	2.32	19	
Benzene	19.2	5.00	ug/L	20.00		95.8	77-126	2.32	19	
Bromobenzene	21.7	5.00	ug/L	20.00		109	72-131	0.647	20	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
LCS Dup (1030282-BSD1)				Prepared & Analyzed: 07/21/10						
Bromobenzene	21.7	5.00	ug/L	20.00		109	72-131	0.647	20	
Bromochloromethane	19.3	5.00	ug/L	20.00		96.4	71-135	0.569	16	
Bromochloromethane	19.3	5.00	ug/L	20.00		96.4	71-135	0.569	16	
Bromodichloromethane	20.1	5.00	ug/L	20.00		100	78-129	2.06	17	
Bromodichloromethane	20.1	5.00	ug/L	20.00		100	78-129	2.06	17	
Bromoform	17.8	5.00	ug/L	20.00		89.1	69-135	1.47	18	
Bromoform	17.8	5.00	ug/L	20.00		89.1	69-135	1.47	18	
Bromomethane	23.3	5.00	ug/L	20.00		116	14-193	0.472	28	
Bromomethane	23.3	5.00	ug/L	20.00		116	14-193	0.472	28	
Carbon Disulfide	10.7	20.0	ug/L	20.00		53.4	54-150	2.56	19	A-01
Carbon Disulfide	10.7	20.0	ug/L	20.00		53.4	54-150	2.56	19	A-01
Carbon Tetrachloride	19.2	5.00	ug/L	20.00		95.9	67-138	1.95	21	
Carbon Tetrachloride	19.2	5.00	ug/L	20.00		95.9	67-138	1.95	21	
Chlorobenzene	21.0	5.00	ug/L	20.00		105	77-125	1.49	19	
Chlorobenzene	21.0	5.00	ug/L	20.00		105	77-125	1.49	19	
Chloroethane	18.0	5.00	ug/L	20.00		89.8	27-170	0.334	64	
Chloroethane	18.0	5.00	ug/L	20.00		89.8	27-170	0.334	64	
Chloroform	20.4	5.00	ug/L	20.00		102	73-136	1.38	19	
Chloroform	20.4	5.00	ug/L	20.00		102	73-136	1.38	19	
Chloromethane	21.9	5.00	ug/L	20.00		110	44-145	1.04	26	
Chloromethane	21.9	5.00	ug/L	20.00		110	44-145	1.04	26	
cis-1,2-Dichloroethene	18.4	5.00	ug/L	20.00		92.0	77-137	0.599	17	
cis-1,2-Dichloroethene	18.4	5.00	ug/L	20.00		92.0	77-137	0.599	17	
cis-1,3-Dichloropropene	19.2	5.00	ug/L	20.00		95.8	70-133	1.58	19	
cis-1,3-Dichloropropene	19.2	5.00	ug/L	20.00		95.8	70-133	1.58	19	
Dibromochloromethane	19.4	5.00	ug/L	20.00		97.0	68-131	0.465	18	
Dibromochloromethane	19.4	5.00	ug/L	20.00		97.0	68-131	0.465	18	
Dibromomethane	19.3	5.00	ug/L	20.00		96.6	74-129	1.62	16	
Dibromomethane	19.3	5.00	ug/L	20.00		96.6	74-129	1.62	16	
Dichlorodifluoromethane	15.5	5.00	ug/L	20.00		77.6	41-145	1.79	15	
Dichlorodifluoromethane	15.5	5.00	ug/L	20.00		77.6	41-145	1.79	15	
Ethylbenzene	20.5	5.00	ug/L	20.00		103	79-126	1.72	20	
Ethylbenzene	20.5	5.00	ug/L	20.00		103	79-126	1.72	20	
Iodomethane	17.9	10.0	ug/L	20.00		89.4	52-150	1.75	25	
Iodomethane	17.9	10.0	ug/L	20.00		89.4	52-150	1.75	25	
Methylene Chloride	20.0	5.00	ug/L	20.00		100	43-162	0.795	28	
Methylene Chloride	20.0	5.00	ug/L	20.00		100	43-162	0.795	28	
Methyl tert-Butyl Ether	18.2	10.0	ug/L	20.00		91.2	63-134	1.05	20	
Methyl tert-Butyl Ether	18.2	10.0	ug/L	20.00		91.2	63-134	1.05	20	
m,p-Xylene	42.7	10.0	ug/L	40.00		107	82-132	0.588	18	
m,p-Xylene	42.7	10.0	ug/L	40.00		107	82-132	0.588	18	
n-Butylbenzene	24.9	5.00	ug/L	20.00		124	80-135	3.74	18	
n-Hexane	23.4	5.00	ug/L	20.00		117	10-216	4.28	64	
n-Hexane	23.4	5.00	ug/L	20.00		117	10-216	4.28	64	
o-Xylene	22.0	5.00	ug/L	20.00		110	81-128	2.25	19	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030282 - VOC PREP										
LCS Dup (1030282-BSD1)				Prepared & Analyzed: 07/21/10						
o-Xylene	22.0	5.00	ug/L	20.00		110	81-128	2.25	19	
Styrene	22.4	5.00	ug/L	20.00		112	81-129	1.98	17	
Styrene	22.4	5.00	ug/L	20.00		112	81-129	1.98	17	
Tetrachloroethene	20.9	5.00	ug/L	20.00		105	43-152	15.8	29	
Tetrachloroethene	20.9	5.00	ug/L	20.00		105	43-152	15.8	29	
Toluene	20.3	5.00	ug/L	20.00		102	79-128	2.04	19	
Toluene	20.3	5.00	ug/L	20.00		102	79-128	2.04	19	
trans-1,2-Dichloroethene	17.6	5.00	ug/L	20.00		88.0	60-144	0.799	20	
trans-1,2-Dichloroethene	17.6	5.00	ug/L	20.00		88.0	60-144	0.799	20	
trans-1,3-Dichloropropene	20.0	5.00	ug/L	20.00		99.9	67-138	1.11	17	
trans-1,3-Dichloropropene	20.0	5.00	ug/L	20.00		99.9	67-138	1.11	17	
Trichloroethene	20.5	5.00	ug/L	20.00		103	74-132	2.42	20	
Trichloroethene	20.5	5.00	ug/L	20.00		103	74-132	2.42	20	
Trichlorofluoromethane	22.9	5.00	ug/L	20.00		114	48-170	0.394	50	
Trichlorofluoromethane	22.9	5.00	ug/L	20.00		114	48-170	0.394	50	
Chloride	19.1	1.00	ug/L	20.00		95.4	60-143	0.105	19	
...yl Chloride	19.1	1.00	ug/L	20.00		95.4	60-143	0.105	19	
Vinyl acetate	14.9	10.0	ug/L	20.00		74.6	16-196	4.90	45	
Vinyl acetate	14.9	10.0	ug/L	20.00		74.6	16-196	4.90	45	
Surrogate: 4-Bromofluorobenzene	*59.5*		*ug/L*	*50.00*		*119*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*59.5*		*ug/L*	*50.00*		*119*	*41-140*			
Surrogate: Dibromofluoromethane	*58.0*		*ug/L*	*50.00*		*116*	*34-158*			
Surrogate: Dibromofluoromethane	*58.0*		*ug/L*	*50.00*		*116*	*34-158*			
Surrogate: Toluene-d8	*63.5*		*ug/L*	*50.00*		*127*	*47-147*			
Surrogate: Toluene-d8	*63.5*		*ug/L*	*50.00*		*127*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*54.1*		*ug/L*	*50.00*		*108*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*54.1*		*ug/L*	*50.00*		*108*	*29-163*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Blank (1030107-BLK1)				Prepared & Analyzed: 07/18/10						
1,1,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
hlorotoluene	BDL	0.00500	mg/kg wet							
Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
Bromoform	BDL	0.00500	mg/kg wet							
Bromomethane	BDL	0.00500	mg/kg wet							
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
thyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
p-Xylene	BDL	0.0100	mg/kg wet							
n-Hexane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Blank (1030107-BLK1)				Prepared & Analyzed: 07/18/10						
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*40.8*		*ug/L*	*50.00*		*81.7*	*41-140*			
Surrogate: Dibromofluoromethane	*41.7*		*ug/L*	*50.00*		*83.3*	*33-129*			
Surrogate: Toluene-d8	*42.3*		*ug/L*	*50.00*		*84.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.0*		*ug/L*	*50.00*		*80.1*	*31-123*			
LCS (1030107-BS1)				Prepared & Analyzed: 07/18/10						
1,2-Tetrachloroethane	0.0181	0.00500	mg/kg wet	0.02000		90.5	69-142			
,1,1-Trichloroethane	0.0169	0.00500	mg/kg wet	0.02000		84.4	58-127			
1,1,2,2-Tetrachloroethane	0.0212	0.00500	mg/kg wet	0.02000		106	74-141			
1,1,2-Trichloroethane	0.0195	0.00500	mg/kg wet	0.02000		97.4	73-140			
1,1-Dichloroethane	0.0159	0.00500	mg/kg wet	0.02000		79.7	60-130			
1,1-Dichloroethene	0.0150	0.00500	mg/kg wet	0.02000		74.9	62-142			
1,1-Dichloropropene	0.0156	0.00500	mg/kg wet	0.02000		78.0	63-142			
1,2-Dibromoethane	0.0191	0.00500	mg/kg wet	0.02000		95.3	72-140			
1,2-Dichloroethane	0.0182	0.00500	mg/kg wet	0.02000		91.2	70-142			
1,2-Dichloropropane	0.0172	0.00500	mg/kg wet	0.02000		86.0	66-139			
1,3-Dichloropropane	0.0195	0.00500	mg/kg wet	0.02000		97.4	75-139			
2,2-Dichloropropane	0.0167	0.00500	mg/kg wet	0.02000		83.6	10-180			
2-Butanone	0.0720	0.0200	mg/kg wet	0.08000		90.0	44-120			
2-Chlorotoluene	0.0179	0.00500	mg/kg wet	0.02000		89.5	69-137			
2-Hexanone	0.0898	0.0200	mg/kg wet	0.08000		112	10-172			
4-Chlorotoluene	0.0184	0.00500	mg/kg wet	0.02000		92.1	71-140			
4-Methyl-2-pentanone	0.0945	0.0200	mg/kg wet	0.08000		118	10-185			
Acetone	0.0732	0.0500	mg/kg wet	0.08000		91.5	10-229			
Acetonitrile	0.0188	0.0400	mg/kg wet	0.02000		94.0	35-169			
Acrylonitrile	0.0195	0.0200	mg/kg wet	0.02000		97.4	64-150			
Allyl chloride	0.0166	0.0100	mg/kg wet	0.02000		83.1	50-149			
Benzene	0.0165	0.00500	mg/kg wet	0.02000		82.4	64-138			
Bromobenzene	0.0179	0.00500	mg/kg wet	0.02000		89.5	73-140			
Bromochloromethane	0.0179	0.00500	mg/kg wet	0.02000		89.5	72-132			
Bromodichloromethane	0.0189	0.00500	mg/kg wet	0.02000		94.4	72-138			
Bromoform	0.0213	0.00500	mg/kg wet	0.02000		106	70-144			
Bromomethane	0.0230	0.00500	mg/kg wet	0.02000		115	10-199			
bon Disulfide	0.0114	0.0200	mg/kg wet	0.02000		56.9	38-148			
rbon Tetrachloride	0.0160	0.00500	mg/kg wet	0.02000		80.2	49-148			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
LCS (1030107-BS1)				Prepared & Analyzed: 07/18/10						
Chlorobenzene	0.0170	0.00500	mg/kg wet	0.02000		84.8	70-135			
Chloroethane	0.0213	0.00500	mg/kg wet	0.02000		106	17-186			
Chloroform	0.0165	0.00500	mg/kg wet	0.02000		82.7	64-134			
Chloromethane	0.0181	0.00500	mg/kg wet	0.02000		90.3	47-143			
cis-1,2-Dichloroethene	0.0163	0.00500	mg/kg wet	0.02000		81.4	66-138			
cis-1,3-Dichloropropene	0.0186	0.00500	mg/kg wet	0.02000		93.2	66-141			
Dibromochloromethane	0.0203	0.00500	mg/kg wet	0.02000		102	70-139			
Dibromomethane	0.0199	0.00500	mg/kg wet	0.02000		99.7	76-135			
Dichlorodifluoromethane	0.0193	0.00500	mg/kg wet	0.02000		96.4	20-181			
Ethylbenzene	0.0171	0.00500	mg/kg wet	0.02000		85.6	71-134			
Iodomethane	0.0121	0.0100	mg/kg wet	0.02000		60.3	13-162			
Methylene Chloride	0.0160	0.00500	mg/kg wet	0.02000		80.1	10-195			
Methyl tert-Butyl Ether	0.0202	0.0100	mg/kg wet	0.02000		101	54-153			
p-Xylene	0.0353	0.0100	mg/kg wet	0.04000		88.2	70-138			
Hexane	0.0233	0.00500	mg/kg wet	0.02000		117	10-185			
o-Xylene	0.0174	0.00500	mg/kg wet	0.02000		87.2	72-139			
Styrene	0.0183	0.00500	mg/kg wet	0.02000		91.3	71-142			
Tetrachloroethene	0.0163	0.00500	mg/kg wet	0.02000		81.3	41-161			
Toluene	0.0172	0.00500	mg/kg wet	0.02000		86.1	70-136			
trans-1,2-Dichloroethene	0.0152	0.00500	mg/kg wet	0.02000		76.0	36-159			
trans-1,3-Dichloropropene	0.0195	0.00500	mg/kg wet	0.02000		97.6	64-142			
Trichloroethene	0.0160	0.00500	mg/kg wet	0.02000		80.1	65-136			
Trichlorofluoromethane	0.0187	0.00500	mg/kg wet	0.02000		93.4	41-163			
Vinyl Chloride	0.0229	0.00500	mg/kg wet	0.02000		115	45-149			
Vinyl acetate	0.0186	0.0100	mg/kg wet	0.02000		93.2	10-208			
Surrogate: 4-Bromofluorobenzene	*42.7*		*ug/L*	*50.00*		*85.4*	*41-140*			
Surrogate: Dibromofluoromethane	*40.7*		*ug/L*	*50.00*		*81.4*	*33-129*			
Surrogate: Toluene-d8	*41.8*		*ug/L*	*50.00*		*83.5*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*42.1*		*ug/L*	*50.00*		*84.1*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
LCS Dup (1030107-BSD1)				Prepared & Analyzed: 07/18/10						
1,1,1,2-Tetrachloroethane	0.0203	0.00500	mg/kg wet	0.02000		102	69-142	11.6	23	
1,1,1-Trichloroethane	0.0197	0.00500	mg/kg wet	0.02000		98.6	58-127	15.5	20	
1,1,2,2-Tetrachloroethane	0.0218	0.00500	mg/kg wet	0.02000		109	74-141	2.97	20	
1,1,2-Trichloroethane	0.0206	0.00500	mg/kg wet	0.02000		103	73-140	5.35	15	
1,1-Dichloroethane	0.0187	0.00500	mg/kg wet	0.02000		93.6	60-130	16.1	20	
1,1-Dichloroethene	0.0177	0.00500	mg/kg wet	0.02000		88.3	62-142	16.4	20	
1,1-Dichloropropene	0.0186	0.00500	mg/kg wet	0.02000		93.0	63-142	17.6	24	
1,2-Dibromoethane	0.0203	0.00500	mg/kg wet	0.02000		102	72-140	6.45	20	
1,2-Dichloroethane	0.0198	0.00500	mg/kg wet	0.02000		98.8	70-142	7.95	18	
1,2-Dichloropropane	0.0199	0.00500	mg/kg wet	0.02000		99.6	66-139	14.5	22	
1,3-Dichloropropane	0.0205	0.00500	mg/kg wet	0.02000		103	75-139	5.15	17	
2,2-Dichloropropane	0.0198	0.00500	mg/kg wet	0.02000		98.8	10-180	16.6	40	
2-Butanone	0.0693	0.0200	mg/kg wet	0.08000		86.6	44-120	3.82	29	
2-Chlorotoluene	0.0211	0.00500	mg/kg wet	0.02000		106	69-137	16.6	30	
? Hexanone	0.0862	0.0200	mg/kg wet	0.08000		108	10-172	4.13	40	
hlorotoluene	0.0220	0.00500	mg/kg wet	0.02000		110	71-140	17.5	30	
4-Methyl-2-pentanone	0.0867	0.0200	mg/kg wet	0.08000		108	10-185	8.64	100	
Acetone	0.0692	0.0500	mg/kg wet	0.08000		86.5	10-229	5.66	40	
Acetonitrile	0.0191	0.0400	mg/kg wet	0.02000		95.6	35-169	1.63	69	
Acrylonitrile	0.0200	0.0200	mg/kg wet	0.02000		100	64-150	2.73	34	
Allyl chloride	0.0192	0.0100	mg/kg wet	0.02000		95.8	50-149	14.1	35	
Benzene	0.0191	0.00500	mg/kg wet	0.02000		95.5	64-138	14.8	25	
Bromobenzene	0.0208	0.00500	mg/kg wet	0.02000		104	73-140	15.0	30	
Bromochloromethane	0.0200	0.00500	mg/kg wet	0.02000		99.8	72-132	10.9	25	
Bromodichloromethane	0.0211	0.00500	mg/kg wet	0.02000		106	72-138	11.3	25	
Bromoform	0.0221	0.00500	mg/kg wet	0.02000		110	70-144	3.64	30	
Bromomethane	0.0228	0.00500	mg/kg wet	0.02000		114	10-199	1.22	40	
Carbon Disulfide	0.0130	0.0200	mg/kg wet	0.02000		64.8	38-148	13.0	36	
Carbon Tetrachloride	0.0190	0.00500	mg/kg wet	0.02000		94.8	49-148	16.7	34	
Chlorobenzene	0.0199	0.00500	mg/kg wet	0.02000		99.7	70-135	16.2	21	
Chloroethane	0.0233	0.00500	mg/kg wet	0.02000		117	17-186	9.19	99	
Chloroform	0.0194	0.00500	mg/kg wet	0.02000		96.8	64-134	15.7	28	
Chloromethane	0.0182	0.00500	mg/kg wet	0.02000		91.1	47-143	0.882	25	
cis-1,2-Dichloroethene	0.0188	0.00500	mg/kg wet	0.02000		94.2	66-138	14.5	25	
cis-1,3-Dichloropropene	0.0206	0.00500	mg/kg wet	0.02000		103	66-141	10.2	25	
Dibromochloromethane	0.0220	0.00500	mg/kg wet	0.02000		110	70-139	7.84	25	
Dibromomethane	0.0207	0.00500	mg/kg wet	0.02000		103	76-135	3.64	23	
Dichlorodifluoromethane	0.0193	0.00500	mg/kg wet	0.02000		96.7	20-181	0.311	34	
Ethylbenzene	0.0205	0.00500	mg/kg wet	0.02000		102	71-134	17.9	31	
Iodomethane	0.0129	0.0100	mg/kg wet	0.02000		64.4	13-162	6.58	31	
Methylene Chloride	0.0183	0.00500	mg/kg wet	0.02000		91.6	10-195	13.4	51	
Methyl tert-Butyl Ether	0.0212	0.0100	mg/kg wet	0.02000		106	54-153	5.17	35	
Xylene	0.0419	0.0100	mg/kg wet	0.04000		105	70-138	17.1	31	
_ Hexane	0.0248	0.00500	mg/kg wet	0.02000		124	10-185	5.95	60	
o-Xylene	0.0205	0.00500	mg/kg wet	0.02000		103	72-139	16.1	23	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
LCS Dup (1030107-BSD1)				Prepared & Analyzed: 07/18/10						
Styrene	0.0211	0.00500	mg/kg wet	0.02000		105	71-142	14.3	22	
Tetrachloroethene	0.0192	0.00500	mg/kg wet	0.02000		96.0	41-161	16.5	40	
Toluene	0.0200	0.00500	mg/kg wet	0.02000		99.8	70-136	14.8	22	
trans-1,2-Dichloroethene	0.0175	0.00500	mg/kg wet	0.02000		87.4	36-159	13.9	24	
trans-1,3-Dichloropropene	0.0210	0.00500	mg/kg wet	0.02000		105	64-142	7.21	20	
Trichloroethene	0.0190	0.00500	mg/kg wet	0.02000		94.9	65-136	16.9	23	
Trichlorofluoromethane	0.0200	0.00500	mg/kg wet	0.02000		100	41-163	6.87	26	
Vinyl Chloride	0.0246	0.00500	mg/kg wet	0.02000		123	45-149	7.28	27	
Vinyl acetate	0.0188	0.0100	mg/kg wet	0.02000		94.2	10-208	1.01	77	
Surrogate: 4-Bromofluorobenzene	*43.4*		*ug/L*	*50.00*		*86.7*	*41-140*			
Surrogate: Dibromofluoromethane	*40.1*		*ug/L*	*50.00*		*80.3*	*33-129*			
Surrogate: Toluene-d8	*41.3*		*ug/L*	*50.00*		*82.7*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*41.2*		*ug/L*	*50.00*		*82.5*	*31-123*			
ıtrix Spike (1030107-MS1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
,1,1,2-Tetrachloroethane	14.6		ug/L	20.00	ND	73.2	38-121			
1,1,1-Trichloroethane	16.5		ug/L	20.00	ND	82.3	35-131			
1,1,2,2-Tetrachloroethane	14.4		ug/L	20.00	ND	71.8	12-144			
1,1,2-Trichloroethane	16.3		ug/L	20.00	ND	81.4	33-126			
1,1-Dichloroethane	15.8		ug/L	20.00	ND	78.8	44-119			
1,1-Dichloroethene	14.5		ug/L	20.00	ND	72.5	31-125			
1,1-Dichloropropene	14.8		ug/L	20.00	ND	74.2	34-126			
1,2-Dibromoethane	14.6		ug/L	20.00	ND	73.1	31-123			
1,2-Dichloroethane	16.1		ug/L	20.00	ND	80.4	48-114			
1,2-Dichloropropane	16.1		ug/L	20.00	ND	80.4	44-118			
1,3-Dichloropropane	15.4		ug/L	20.00	ND	77.1	31-128			
2,2-Dichloropropane	15.6		ug/L	20.00	ND	77.8	10-149			
2-Butanone	59.5		ug/L	80.00	ND	74.3	10-159			
2-Chlorotoluene	12.8		ug/L	20.00	ND	64.2	18-108			
2-Hexanone	65.9		ug/L	80.00	ND	82.4	10-194			
4-Chlorotoluene	10.9		ug/L	20.00	ND	54.6	10-116			
4-Methyl-2-pentanone	70.1		ug/L	80.00	ND	87.6	10-186			
Acetone	87.8		ug/L	80.00	18.3	86.8	10-218			
Acetonitrile	19.2		ug/L	20.00	ND	96.2	22-170			
Acrylonitrile	16.1		ug/L	20.00	ND	80.6	22-140			
Allyl chloride	15.4		ug/L	20.00	ND	77.0	28-128			
Benzene	14.7		ug/L	20.00	ND	73.5	39-126			
Bromobenzene	11.7		ug/L	20.00	ND	58.6	15-109			
Bromochloromethane	15.7		ug/L	20.00	ND	78.5	47-124			
Bromodichloromethane	16.3		ug/L	20.00	ND	81.5	40-114			
Bromoform	13.6		ug/L	20.00	ND	67.8	19-119			
omomethane	19.8		ug/L	20.00	ND	98.8	10-173			
arbon Disulfide	10.3		ug/L	20.00	ND	51.3	17-133			
Carbon Tetrachloride	15.5		ug/L	20.00	ND	77.4	23-128			
Chlorobenzene	12.8		ug/L	20.00	ND	64.2	27-111			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Matrix Spike (1030107-MS1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
Chloroethane	20.6		ug/L	20.00	ND	103	17-153			
Chloroform	15.6		ug/L	20.00	ND	78.0	35-130			
Chloromethane	15.8		ug/L	20.00	ND	79.2	22-139			
cis-1,2-Dichloroethene	15.2		ug/L	20.00	ND	75.8	42-118			
cis-1,3-Dichloropropene	14.8		ug/L	20.00	ND	73.8	27-113			
Dibromochloromethane	15.5		ug/L	20.00	ND	77.3	29-122			
Dibromomethane	16.1		ug/L	20.00	ND	80.7	39-126			
Dichlorodifluoromethane	17.1		ug/L	20.00	ND	85.4	10-184			
Ethylbenzene	15.2		ug/L	20.00	ND	75.8	27-117			
Iodomethane	10.4		ug/L	20.00	ND	51.8	10-127			
Methylene Chloride	14.5		ug/L	20.00	ND	72.6	10-179			
Methyl tert-Butyl Ether	17.4		ug/L	20.00	1.62	79.1	38-126			
m,p-Xylene	32.8		ug/L	40.00	ND	82.0	26-114			
n-Hexane	16.2		ug/L	20.00	ND	81.0	10-122			
Xylene	14.8		ug/L	20.00	ND	74.0	28-119			
ene	11.7		ug/L	20.00	ND	58.4	17-104			
Tetrachloroethene	14.9		ug/L	20.00	ND	74.3	24-114			
Toluene	15.5		ug/L	20.00	ND	77.6	32-121			
trans-1,2-Dichloroethene	14.2		ug/L	20.00	ND	71.2	32-122			
trans-1,3-Dichloropropene	14.5		ug/L	20.00	ND	72.6	19-109			
Trichloroethene	15.0		ug/L	20.00	ND	74.8	42-109			
Trichlorofluoromethane	17.1		ug/L	20.00	ND	85.3	10-158			
Vinyl Chloride	20.2		ug/L	20.00	ND	101	22-143			
Vinyl acetate	9.61		ug/L	20.00	ND	48.0	10-127			
Surrogate: 4-Bromofluorobenzene	*42.0*		*ug/L*	*50.00*		*84.0*	*41-140*			
Surrogate: Dibromofluoromethane	*41.1*		*ug/L*	*50.00*		*82.2*	*33-129*			
Surrogate: Toluene-d8	*42.0*		*ug/L*	*50.00*		*84.0*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*41.0*		*ug/L*	*50.00*		*82.0*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Matrix Spike Dup (1030107-MSD1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
1,1,1,2-Tetrachloroethane	15.9		ug/L	20.00	ND	79.6	38-121	8.37	50	
1,1,1-Trichloroethane	17.6		ug/L	20.00	ND	87.8	35-131	6.52	60	
1,1,2,2-Tetrachloroethane	15.7		ug/L	20.00	ND	78.7	12-144	9.10	51	
1,1,2-Trichloroethane	17.4		ug/L	20.00	ND	87.0	33-126	6.77	46	
1,1-Dichloroethane	17.1		ug/L	20.00	ND	85.4	44-119	8.04	48	
1,1-Dichloroethene	15.8		ug/L	20.00	ND	79.2	31-125	8.90	61	
1,1-Dichloropropene	16.0		ug/L	20.00	ND	80.0	34-126	7.46	81	
1,2-Dibromoethane	15.9		ug/L	20.00	ND	79.6	31-123	8.51	56	
1,2-Dichloroethane	17.1		ug/L	20.00	ND	85.4	48-114	5.91	40	
1,2-Dichloropropane	17.4		ug/L	20.00	ND	86.8	44-118	7.60	48	
1,3-Dichloropropane	17.0		ug/L	20.00	ND	85.0	31-128	9.81	50	
2,2-Dichloropropane	16.3		ug/L	20.00	ND	81.4	10-149	4.59	50	
2-Butanone	63.1		ug/L	80.00	ND	78.9	10-159	5.92	60	
2-Chlorotoluene	13.4		ug/L	20.00	ND	67.0	18-108	4.27	75	
2-Hexanone	74.6		ug/L	80.00	ND	93.3	10-194	12.4	58	
hlorotoluene	11.6		ug/L	20.00	ND	57.8	10-116	5.69	80	
-Methyl-2-pentanone	76.6		ug/L	80.00	ND	95.7	10-186	8.80	60	
Acetone	84.5		ug/L	80.00	18.3	82.8	10-218	3.73	60	
Acetonitrile	17.2		ug/L	20.00	ND	85.9	22-170	11.3	70	
Acrylonitrile	17.8		ug/L	20.00	ND	88.8	22-140	9.56	69	
Allyl chloride	16.6		ug/L	20.00	ND	82.9	28-128	7.31	68	
Benzene	16.6		ug/L	20.00	ND	82.9	39-126	12.0	61	
Bromobenzene	12.6		ug/L	20.00	ND	63.0	15-109	7.32	50	
Bromochloromethane	16.4		ug/L	20.00	ND	82.2	47-124	4.67	48	
Bromodichloromethane	17.4		ug/L	20.00	ND	87.1	40-114	6.64	49	
Bromoform	15.2		ug/L	20.00	ND	75.9	19-119	11.3	63	
Bromomethane	27.8		ug/L	20.00	ND	139	10-173	33.7	40	
Carbon Disulfide	10.9		ug/L	20.00	ND	54.4	17-133	5.77	74	
Carbon Tetrachloride	16.9		ug/L	20.00	ND	84.4	23-128	8.59	60	
Chlorobenzene	14.1		ug/L	20.00	ND	70.6	27-111	9.35	50	
Chloroethane	21.5		ug/L	20.00	ND	107	17-153	4.19	75	
Chloroform	16.8		ug/L	20.00	ND	83.8	35-130	7.23	52	
Chloromethane	15.6		ug/L	20.00	ND	78.0	22-139	1.65	42	
cis-1,2-Dichloroethene	16.4		ug/L	20.00	ND	82.0	42-118	7.80	63	
cis-1,3-Dichloropropene	16.0		ug/L	20.00	ND	79.8	27-113	7.75	50	
Dibromochloromethane	17.0		ug/L	20.00	ND	84.9	29-122	9.37	59	
Dibromomethane	17.5		ug/L	20.00	ND	87.6	39-126	8.26	48	
Dichlorodifluoromethane	17.1		ug/L	20.00	ND	85.3	10-184	0.117	108	
Ethylbenzene	16.0		ug/L	20.00	ND	80.2	27-117	5.64	40	
Iodomethane	15.2		ug/L	20.00	ND	76.0	10-127	38.0	50	
Methylene Chloride	15.2		ug/L	20.00	ND	76.2	10-179	4.84	58	
Methyl tert-Butyl Ether	18.6		ug/L	20.00	1.62	84.8	38-126	6.33	50	
-Xylene	32.6		ug/L	40.00	ND	81.4	26-114	0.612	40	
rlexane	16.8		ug/L	20.00	ND	84.0	10-122	3.64	70	
o-Xylene	15.1		ug/L	20.00	ND	75.6	28-119	2.01	40	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030107 - VOC PREP										
Matrix Spike Dup (1030107-MSD1)	**Source: 10G0539-01**			Prepared & Analyzed: 07/18/10						
Styrene	12.7		ug/L	20.00	ND	63.6	17-104	8.45	40	
Tetrachloroethene	16.4		ug/L	20.00	ND	82.2	24-114	10.0	50	
Toluene	17.3		ug/L	20.00	ND	86.4	32-121	10.7	40	
trans-1,2-Dichloroethene	15.1		ug/L	20.00	ND	75.7	32-122	6.20	50	
trans-1,3-Dichloropropene	15.6		ug/L	20.00	ND	78.0	19-109	7.04	51	
Trichloroethene	15.9		ug/L	20.00	ND	79.3	42-109	5.84	38	
Trichlorofluoromethane	17.8		ug/L	20.00	ND	89.0	10-158	4.25	120	
Vinyl Chloride	21.6		ug/L	20.00	ND	108	22-143	6.85	60	
Vinyl acetate	7.33		ug/L	20.00	ND	36.6	10-127	26.9	119	
Surrogate: 4-Bromofluorobenzene	*41.8*		*ug/L*	*50.00*		*83.5*	*41-140*			
Surrogate: Dibromofluoromethane	*40.6*		*ug/L*	*50.00*		*81.2*	*33-129*			
Surrogate: Toluene-d8	*42.2*		*ug/L*	*50.00*		*84.5*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.9*		*ug/L*	*50.00*		*81.8*	*31-123*			
Batch 1030116 - VOC PREP										
ık (1030116-BLK1)				Prepared & Analyzed: 07/19/10						
,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
4-Chlorotoluene	BDL	0.00500	mg/kg wet							
4-Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
moform	BDL	0.00500	mg/kg wet							
nomethane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Blank (1030116-BLK1)				Prepared & Analyzed: 07/19/10						
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
ethyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
m,p-Xylene	BDL	0.0100	mg/kg wet							
n-Hexane	BDL	0.00500	mg/kg wet							
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*37.0*		*ug/L*	*50.00*		*74.0*	*41-140*			
Surrogate: Dibromofluoromethane	*36.1*		*ug/L*	*50.00*		*72.2*	*33-129*			
Surrogate: Toluene-d8	*40.3*		*ug/L*	*50.00*		*80.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*37.7*		*ug/L*	*50.00*		*75.3*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
LCS (1030116-BS1)				Prepared & Analyzed: 07/19/10						
1,1,1,2-Tetrachloroethane	0.0146	0.00500	mg/kg wet	0.02000		73.2	69-142			
1,1,1-Trichloroethane	0.0141	0.00500	mg/kg wet	0.02000		70.6	58-127			
1,1,2,2-Tetrachloroethane	0.0192	0.00500	mg/kg wet	0.02000		95.9	74-141			
1,1,2-Trichloroethane	0.0178	0.00500	mg/kg wet	0.02000		88.9	73-140			
1,1-Dichloroethane	0.0157	0.00500	mg/kg wet	0.02000		78.4	60-130			
1,1-Dichloroethene	0.0142	0.00500	mg/kg wet	0.02000		70.8	62-142			
1,1-Dichloropropene	0.0142	0.00500	mg/kg wet	0.02000		71.1	63-142			
1,2-Dibromoethane	0.0161	0.00500	mg/kg wet	0.02000		80.4	72-140			
1,2-Dichloroethane	0.0165	0.00500	mg/kg wet	0.02000		82.4	70-142			
1,2-Dichloropropane	0.0170	0.00500	mg/kg wet	0.02000		84.8	66-139			
1,3-Dichloropropane	0.0174	0.00500	mg/kg wet	0.02000		86.8	75-139			
2,2-Dichloropropane	0.0145	0.00500	mg/kg wet	0.02000		72.6	10-180			
2-Butanone	0.0751	0.0200	mg/kg wet	0.08000		93.9	44-120			
2-Chlorotoluene	0.0156	0.00500	mg/kg wet	0.02000		77.8	69-137			
?-Hexanone	0.0854	0.0200	mg/kg wet	0.08000		107	10-172			
lorotoluene	0.0146	0.00500	mg/kg wet	0.02000		72.9	71-140			
.Methyl-2-pentanone	0.0791	0.0200	mg/kg wet	0.08000		98.9	10-185			
Acetone	0.0869	0.0500	mg/kg wet	0.08000		109	10-229			
Acetonitrile	0.0212	0.0400	mg/kg wet	0.02000		106	35-169			
Acrylonitrile	0.0198	0.0200	mg/kg wet	0.02000		98.8	64-150			
Allyl chloride	0.0149	0.0100	mg/kg wet	0.02000		74.3	50-149			
Benzene	0.0158	0.00500	mg/kg wet	0.02000		79.0	64-138			
Bromobenzene	0.0154	0.00500	mg/kg wet	0.02000		76.8	73-140			
Bromochloromethane	0.0148	0.00500	mg/kg wet	0.02000		73.8	72-132			
Bromodichloromethane	0.0162	0.00500	mg/kg wet	0.02000		80.9	72-138			
Bromoform	0.0164	0.00500	mg/kg wet	0.02000		82.3	70-144			
Bromomethane	0.0371	0.00500	mg/kg wet	0.02000		186	10-199			
Carbon Disulfide	0.0103	0.0200	mg/kg wet	0.02000		51.3	38-148			
Carbon Tetrachloride	0.0120	0.00500	mg/kg wet	0.02000		60.2	49-148			
Chlorobenzene	0.0157	0.00500	mg/kg wet	0.02000		78.5	70-135			
Chloroethane	0.0847	0.00500	mg/kg wet	0.02000		424	17-186			L
Chloroform	0.0150	0.00500	mg/kg wet	0.02000		75.0	64-134			
Chloromethane	0.0251	0.00500	mg/kg wet	0.02000		125	47-143			
cis-1,2-Dichloroethene	0.0154	0.00500	mg/kg wet	0.02000		77.0	66-138			
cis-1,3-Dichloropropene	0.0165	0.00500	mg/kg wet	0.02000		82.6	66-141			
Dibromochloromethane	0.0154	0.00500	mg/kg wet	0.02000		76.8	70-139			
Dibromomethane	0.0170	0.00500	mg/kg wet	0.02000		85.0	76-135			
Dichlorodifluoromethane	0.0255	0.00500	mg/kg wet	0.02000		127	20-181			
Ethylbenzene	0.0156	0.00500	mg/kg wet	0.02000		78.0	71-134			
Iodomethane	0.00777	0.0100	mg/kg wet	0.02000		38.8	13-162			
Methylene Chloride	0.0180	0.00500	mg/kg wet	0.02000		89.8	10-195			
Methyl tert-Butyl Ether	0.0195	0.0100	mg/kg wet	0.02000		97.7	54-153			
Xylene	0.0313	0.0100	mg/kg wet	0.04000		78.2	70-138			
.exane	0.0181	0.00500	mg/kg wet	0.02000		90.5	10-185			
o-Xylene	0.0154	0.00500	mg/kg wet	0.02000		76.8	72-139			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
LCS (1030116-BS1)				Prepared & Analyzed: 07/19/10						
Styrene	0.0163	0.00500	mg/kg wet	0.02000		81.4	71-142			
Tetrachloroethene	0.0133	0.00500	mg/kg wet	0.02000		66.5	41-161			
Toluene	0.0153	0.00500	mg/kg wet	0.02000		76.4	70-136			
trans-1,2-Dichloroethene	0.0140	0.00500	mg/kg wet	0.02000		70.2	36-159			
trans-1,3-Dichloropropene	0.0179	0.00500	mg/kg wet	0.02000		89.5	64-142			
Trichloroethene	0.0134	0.00500	mg/kg wet	0.02000		67.2	65-136			
Trichlorofluoromethane	0.0447	0.00500	mg/kg wet	0.02000		223	41-163			L
Vinyl Chloride	0.0138	0.00500	mg/kg wet	0.02000		69.0	45-149			
Vinyl acetate	0.0186	0.0100	mg/kg wet	0.02000		93.1	10-208			
Surrogate: 4-Bromofluorobenzene	*38.6*		*ug/L*	*50.00*		*77.2*	*41-140*			
Surrogate: Dibromofluoromethane	*35.2*		*ug/L*	*50.00*		*70.5*	*33-129*			
Surrogate: Toluene-d8	*38.3*		*ug/L*	*50.00*		*76.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.9*		*ug/L*	*50.00*		*79.8*	*31-123*			
CS Dup (1030116-BSD1)				Prepared & Analyzed: 07/19/10						
,1,2-Tetrachloroethane	0.0174	0.00500	mg/kg wet	0.02000		87.0	69-142	17.2	23	
1,1,1-Trichloroethane	0.0186	0.00500	mg/kg wet	0.02000		93.1	58-127	27.4	20	R
1,1,2,2-Tetrachloroethane	0.0203	0.00500	mg/kg wet	0.02000		102	74-141	5.87	20	
1,1,2-Trichloroethane	0.0207	0.00500	mg/kg wet	0.02000		104	73-140	15.2	15	R
1,1-Dichloroethane	0.0199	0.00500	mg/kg wet	0.02000		99.3	60-130	23.5	20	R
1,1-Dichloroethene	0.0179	0.00500	mg/kg wet	0.02000		89.6	62-142	23.3	20	R
1,1-Dichloropropene	0.0184	0.00500	mg/kg wet	0.02000		92.2	63-142	25.8	24	R
1,2-Dibromoethane	0.0172	0.00500	mg/kg wet	0.02000		85.9	72-140	6.56	20	
1,2-Dichloroethane	0.0196	0.00500	mg/kg wet	0.02000		98.0	70-142	17.4	18	
1,2-Dichloropropane	0.0214	0.00500	mg/kg wet	0.02000		107	66-139	23.0	22	R
1,3-Dichloropropane	0.0198	0.00500	mg/kg wet	0.02000		98.9	75-139	13.0	17	
2,2-Dichloropropane	0.0190	0.00500	mg/kg wet	0.02000		94.9	10-180	26.7	40	
2-Butanone	0.0751	0.0200	mg/kg wet	0.08000		93.9	44-120	0.0133	29	
2-Chlorotoluene	0.0194	0.00500	mg/kg wet	0.02000		97.2	69-137	22.2	30	
2-Hexanone	0.0891	0.0200	mg/kg wet	0.08000		111	10-172	4.28	40	
4-Chlorotoluene	0.0190	0.00500	mg/kg wet	0.02000		94.8	71-140	26.1	30	
4-Methyl-2-pentanone	0.0798	0.0200	mg/kg wet	0.08000		99.7	10-185	0.780	100	
Acetone	0.0904	0.0500	mg/kg wet	0.08000		113	10-229	3.90	40	
Acetonitrile	0.0221	0.0400	mg/kg wet	0.02000		111	35-169	4.20	69	
Acrylonitrile	0.0203	0.0200	mg/kg wet	0.02000		102	64-150	2.75	34	
Allyl chloride	0.0180	0.0100	mg/kg wet	0.02000		90.2	50-149	19.3	35	
Benzene	0.0199	0.00500	mg/kg wet	0.02000		99.3	64-138	22.7	25	
Bromobenzene	0.0176	0.00500	mg/kg wet	0.02000		88.2	73-140	13.9	30	
Bromochloromethane	0.0162	0.00500	mg/kg wet	0.02000		80.9	72-132	9.18	25	
Bromodichloromethane	0.0196	0.00500	mg/kg wet	0.02000		98.0	72-138	19.1	25	
Bromoform	0.0175	0.00500	mg/kg wet	0.02000		87.3	70-144	5.96	30	
Bromomethane	0.0472	0.00500	mg/kg wet	0.02000		236	10-199	23.9	40	L
arbon Disulfide	0.0126	0.0200	mg/kg wet	0.02000		63.0	38-148	20.5	36	
Carbon Tetrachloride	0.0157	0.00500	mg/kg wet	0.02000		78.7	49-148	26.6	34	
Chlorobenzene	0.0192	0.00500	mg/kg wet	0.02000		96.0	70-135	20.2	21	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
LCS Dup (1030116-BSD1)				Prepared & Analyzed: 07/19/10						
Chloroethane	0.100	0.00500	mg/kg wet	0.02000		501	17-186	16.7	99	L
Chloroform	0.0183	0.00500	mg/kg wet	0.02000		91.4	64-134	19.6	28	
Chloromethane	0.0292	0.00500	mg/kg wet	0.02000		146	47-143	15.4	25	L
cis-1,2-Dichloroethene	0.0192	0.00500	mg/kg wet	0.02000		96.0	66-138	22.1	25	
cis-1,3-Dichloropropene	0.0197	0.00500	mg/kg wet	0.02000		98.7	66-141	17.8	25	
Dibromochloromethane	0.0172	0.00500	mg/kg wet	0.02000		85.8	70-139	11.1	25	
Dibromomethane	0.0189	0.00500	mg/kg wet	0.02000		94.6	76-135	10.7	23	
Dichlorodifluoromethane	0.0269	0.00500	mg/kg wet	0.02000		135	20-181	5.53	34	
Ethylbenzene	0.0200	0.00500	mg/kg wet	0.02000		100	71-134	24.9	31	
Iodomethane	0.00867	0.0100	mg/kg wet	0.02000		43.4	13-162	10.9	31	
Methylene Chloride	0.0216	0.00500	mg/kg wet	0.02000		108	10-195	18.4	51	
Methyl tert-Butyl Ether	0.0216	0.0100	mg/kg wet	0.02000		108	54-153	9.88	35	
m,p-Xylene	0.0396	0.0100	mg/kg wet	0.04000		99.0	70-138	23.6	31	
n-Hexane	0.0195	0.00500	mg/kg wet	0.02000		97.5	10-185	7.45	60	
o-Xylene	0.0187	0.00500	mg/kg wet	0.02000		93.4	72-139	19.4	23	
ene	0.0194	0.00500	mg/kg wet	0.02000		96.8	71-142	17.2	22	
rachloroethene	0.0168	0.00500	mg/kg wet	0.02000		84.0	41-161	23.3	40	
Toluene	0.0196	0.00500	mg/kg wet	0.02000		97.8	70-136	24.6	22	R
trans-1,2-Dichloroethene	0.0172	0.00500	mg/kg wet	0.02000		86.0	36-159	20.2	24	
trans-1,3-Dichloropropene	0.0207	0.00500	mg/kg wet	0.02000		104	64-142	14.7	20	
Trichloroethene	0.0172	0.00500	mg/kg wet	0.02000		86.0	65-136	24.6	23	R
Trichlorofluoromethane	0.0518	0.00500	mg/kg wet	0.02000		259	41-163	14.8	26	L
Vinyl Chloride	0.0165	0.00500	mg/kg wet	0.02000		82.7	45-149	18.1	27	
Vinyl acetate	0.0205	0.0100	mg/kg wet	0.02000		102	10-208	9.62	77	
Surrogate: 4-Bromofluorobenzene	*38.7*		*ug/L*	*50.00*		*77.3*	*41-140*			
Surrogate: Dibromofluoromethane	*35.1*		*ug/L*	*50.00*		*70.2*	*33-129*			
Surrogate: Toluene-d8	*39.3*		*ug/L*	*50.00*		*78.7*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.6*		*ug/L*	*50.00*		*81.3*	*31-123*			

Belmont Labs **Date:** 8/9/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0539
Project: Hudepohl Brewery Redevelopment

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Matrix Spike (1030116-MS1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
1,1,1,2-Tetrachloroethane	13.9		ug/L	20.00	ND	69.5	38-121			
1,1,1-Trichloroethane	14.8		ug/L	20.00	ND	74.2	35-131			
1,1,2,2-Tetrachloroethane	19.4		ug/L	20.00	ND	97.2	12-144			
1,1,2-Trichloroethane	19.4		ug/L	20.00	ND	96.9	33-126			
1,1-Dichloroethane	17.4		ug/L	20.00	ND	87.2	44-119			
1,1-Dichloroethene	15.1		ug/L	20.00	ND	75.7	31-125			
1,1-Dichloropropene	15.2		ug/L	20.00	ND	76.2	34-126			
1,2-Dibromoethane	15.1		ug/L	20.00	ND	75.7	31-123			
1,2-Dichloroethane	17.8		ug/L	20.00	ND	89.1	48-114			
1,2-Dichloropropane	18.1		ug/L	20.00	ND	90.3	44-118			
1,3-Dichloropropane	18.2		ug/L	20.00	ND	91.2	31-128			
2,2-Dichloropropane	14.7		ug/L	20.00	ND	73.4	10-149			
2-Butanone	79.2		ug/L	80.00	ND	99.0	10-159			
2-Chlorotoluene	15.8		ug/L	20.00	ND	79.0	18-108			
2-Hexanone	94.3		ug/L	80.00	ND	118	10-194			
Chlorotoluene	14.9		ug/L	20.00	ND	74.4	10-116			
4-Methyl-2-pentanone	77.6		ug/L	80.00	ND	97.0	10-186			
Acetone	103		ug/L	80.00	14.6	111	10-218			
Acetonitrile	20.8		ug/L	20.00	ND	104	22-170			
Acrylonitrile	19.4		ug/L	20.00	ND	97.2	22-140			
Allyl chloride	14.6		ug/L	20.00	ND	73.2	28-128			
Benzene	16.8		ug/L	20.00	ND	83.8	39-126			
Bromobenzene	14.0		ug/L	20.00	ND	70.2	15-109			
Bromochloromethane	13.5		ug/L	20.00	ND	67.6	47-124			
Bromodichloromethane	17.3		ug/L	20.00	ND	86.6	40-114			
Bromoform	15.3		ug/L	20.00	ND	76.6	19-119			
Bromomethane	56.7		ug/L	20.00	ND	284	10-173			M
Carbon Disulfide	10.5		ug/L	20.00	ND	52.4	17-133			
Carbon Tetrachloride	12.8		ug/L	20.00	ND	64.0	23-128			
Chlorobenzene	15.2		ug/L	20.00	ND	75.8	27-111			
Chloroethane	108		ug/L	20.00	ND	539	17-153			M
Chloroform	15.8		ug/L	20.00	ND	79.2	35-130			
Chloromethane	25.3		ug/L	20.00	ND	126	22-139			
cis-1,2-Dichloroethene	16.3		ug/L	20.00	ND	81.4	42-118			
cis-1,3-Dichloropropene	16.5		ug/L	20.00	ND	82.3	27-113			
Dibromochloromethane	14.1		ug/L	20.00	ND	70.6	29-122			
Dibromomethane	17.0		ug/L	20.00	ND	85.0	39-126			
Dichlorodifluoromethane	22.1		ug/L	20.00	ND	110	10-184			
Ethylbenzene	16.2		ug/L	20.00	ND	81.2	27-117			
Iodomethane	7.14		ug/L	20.00	ND	35.7	10-127			
Methylene Chloride	17.8		ug/L	20.00	ND	88.8	10-179			
Methyl tert-Butyl Ether	19.0		ug/L	20.00	ND	95.0	38-126			
p-Xylene	31.9		ug/L	40.00	ND	79.8	26-114			
n-Hexane	17.6		ug/L	20.00	ND	87.8	10-122			
o-Xylene	14.6		ug/L	20.00	ND	73.0	28-119			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Matrix Spike (1030116-MS1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
Styrene	15.1		ug/L	20.00	ND	75.6	17-104			
Tetrachloroethene	12.6		ug/L	20.00	ND	62.9	24-114			
Toluene	16.2		ug/L	20.00	ND	80.8	32-121			
trans-1,2-Dichloroethene	13.7		ug/L	20.00	ND	68.4	32-122			
trans-1,3-Dichloropropene	18.6		ug/L	20.00	ND	92.8	19-109			
Trichloroethene	13.2		ug/L	20.00	ND	65.8	42-109			
Trichlorofluoromethane	53.7		ug/L	20.00	ND	269	10-158			M
Vinyl Chloride	56.0		ug/L	20.00	ND	280	22-143			M
Vinyl acetate	17.8		ug/L	20.00	ND	89.2	10-127			
Surrogate: 4-Bromofluorobenzene	*38.6*		*ug/L*	*50.00*		*77.2*	*41-140*			
Surrogate: Dibromofluoromethane	*36.8*		*ug/L*	*50.00*		*73.6*	*33-129*			
Surrogate: Toluene-d8	*40.8*		*ug/L*	*50.00*		*81.6*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.0*		*ug/L*	*50.00*		*79.9*	*31-123*			
Matrix Spike Dup (1030116-MSD1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
' 1,1,2-Tetrachloroethane	12.9		ug/L	20.00	ND	64.6	38-121	7.23	50	
1-Trichloroethane	14.2		ug/L	20.00	ND	70.9	35-131	4.55	60	
,1,2,2-Tetrachloroethane	18.1		ug/L	20.00	ND	90.3	12-144	7.41	51	
1,1,2-Trichloroethane	17.8		ug/L	20.00	ND	89.0	33-126	8.56	46	
1,1-Dichloroethane	16.5		ug/L	20.00	ND	82.4	44-119	5.54	48	
1,1-Dichloroethene	14.5		ug/L	20.00	ND	72.4	31-125	4.53	61	
1,1-Dichloropropene	14.4		ug/L	20.00	ND	71.9	34-126	5.87	81	
1,2-Dibromoethane	14.2		ug/L	20.00	ND	71.2	31-123	6.13	56	
1,2-Dichloroethane	17.1		ug/L	20.00	ND	85.6	48-114	3.95	40	
1,2-Dichloropropane	17.2		ug/L	20.00	ND	86.0	44-118	4.88	48	
1,3-Dichloropropane	17.0		ug/L	20.00	ND	85.2	31-128	6.81	50	
2,2-Dichloropropane	14.2		ug/L	20.00	ND	71.0	10-149	3.32	50	
2-Butanone	78.8		ug/L	80.00	ND	98.5	10-159	0.506	60	
2-Chlorotoluene	14.4		ug/L	20.00	ND	72.0	18-108	9.21	75	
2-Hexanone	87.9		ug/L	80.00	ND	110	10-194	7.06	58	
4-Chlorotoluene	13.5		ug/L	20.00	ND	67.6	10-116	9.50	80	
4-Methyl-2-pentanone	71.8		ug/L	80.00	ND	89.8	10-186	7.70	60	
Acetone	106		ug/L	80.00	14.6	114	10-218	2.84	60	
Acetonitrile	24.1		ug/L	20.00	ND	120	22-170	14.5	70	
Acrylonitrile	19.6		ug/L	20.00	ND	97.8	22-140	0.615	69	
Allyl chloride	14.5		ug/L	20.00	ND	72.5	28-128	1.03	68	
Benzene	16.0		ug/L	20.00	ND	79.8	39-126	4.83	61	
Bromobenzene	12.9		ug/L	20.00	ND	64.6	15-109	8.46	50	
Bromochloromethane	12.7		ug/L	20.00	ND	63.3	47-124	6.50	48	
Bromodichloromethane	16.2		ug/L	20.00	ND	80.8	40-114	6.93	49	
Bromoform	13.9		ug/L	20.00	ND	69.4	19-119	9.87	63	
Bromomethane	54.2		ug/L	20.00	ND	271	10-173	4.53	40	M
Carbon Disulfide	9.77		ug/L	20.00	ND	48.8	17-133	7.01	74	
bon Tetrachloride	12.0		ug/L	20.00	ND	59.8	23-128	6.78	60	
ilorobenzene	14.3		ug/L	20.00	ND	71.5	27-111	5.90	50	

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030116 - VOC PREP										
Matrix Spike Dup (1030116-MSD1)	**Source: 10G0539-05**			Prepared & Analyzed: 07/19/10						
Chloroethane	104		ug/L	20.00	ND	518	17-153	3.87	75	M
Chloroform	15.3		ug/L	20.00	ND	76.3	35-130	3.79	52	
Chloromethane	24.2		ug/L	20.00	ND	121	22-139	4.20	42	
cis-1,2-Dichloroethene	15.8		ug/L	20.00	ND	78.8	42-118	3.31	63	
cis-1,3-Dichloropropene	15.4		ug/L	20.00	ND	76.8	27-113	6.85	50	
Dibromochloromethane	13.0		ug/L	20.00	ND	65.2	29-122	7.95	59	
Dibromomethane	16.6		ug/L	20.00	ND	82.9	39-126	2.44	48	
Dichlorodifluoromethane	21.8		ug/L	20.00	ND	109	10-184	1.46	108	
Ethylbenzene	15.3		ug/L	20.00	ND	76.4	27-117	6.15	40	
Iodomethane	7.45		ug/L	20.00	ND	37.2	10-127	4.25	50	
Methylene Chloride	17.0		ug/L	20.00	ND	84.9	10-179	4.55	58	
Methyl tert-Butyl Ether	19.0		ug/L	20.00	ND	94.8	38-126	0.158	50	
m,p-Xylene	29.8		ug/L	40.00	ND	74.4	26-114	7.00	40	
n-Hexane	18.1		ug/L	20.00	ND	90.4	10-122	2.92	70	
-Xylene	13.7		ug/L	20.00	ND	68.3	28-119	6.72	40	
ene	13.3		ug/L	20.00	ND	66.6	17-104	12.8	40	
etrachloroethene	11.9		ug/L	20.00	ND	59.3	24-114	5.89	50	
Toluene	15.1		ug/L	20.00	ND	75.6	32-121	6.52	40	
trans-1,2-Dichloroethene	13.2		ug/L	20.00	ND	65.9	32-122	3.80	50	
trans-1,3-Dichloropropene	17.2		ug/L	20.00	ND	85.8	19-109	7.95	51	
Trichloroethene	12.5		ug/L	20.00	ND	62.6	42-109	5.06	38	
Trichlorofluoromethane	53.1		ug/L	20.00	ND	266	10-158	1.18	120	M
Vinyl Chloride	55.2		ug/L	20.00	ND	276	22-143	1.39	60	M
Vinyl acetate	18.0		ug/L	20.00	ND	90.2	10-127	1.17	119	
Surrogate: 4-Bromofluorobenzene	*38.8*		*ug/L*	*50.00*		*77.6*	*41-140*			
Surrogate: Dibromofluoromethane	*36.6*		*ug/L*	*50.00*		*73.2*	*33-129*			
Surrogate: Toluene-d8	*40.2*		*ug/L*	*50.00*		*80.4*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.9*		*ug/L*	*50.00*		*79.8*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030319 - VOC PREP										
Blank (1030319-BLK1)				Prepared: 07/20/10 Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
hlorotoluene	BDL	0.00500	mg/kg wet							
Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
Bromoform	BDL	0.00500	mg/kg wet							
Bromomethane	BDL	0.00500	mg/kg wet							
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	BDL	0.00500	mg/kg wet							
thyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
-Xylene	BDL	0.0100	mg/kg wet							
n-Hexane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030319 - VOC PREP										
Blank (1030319-BLK1)				Prepared: 07/20/10 Analyzed: 07/21/10						
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*45.7*		*ug/L*	*50.00*		*91.5*	*41-140*			
Surrogate: Dibromofluoromethane	*38.0*		*ug/L*	*50.00*		*75.9*	*33-129*			
Surrogate: Toluene-d8	*44.6*		*ug/L*	*50.00*		*89.2*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*37.4*		*ug/L*	*50.00*		*74.9*	*31-123*			
LCS (1030319-BS1)				Prepared: 07/20/10 Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	0.0200	0.00500	mg/kg wet	0.02000		99.8	69-142			
1,1,1-Trichloroethane	0.0212	0.00500	mg/kg wet	0.02000		106	58-127			
1,1,2,2-Tetrachloroethane	0.0278	0.00500	mg/kg wet	0.02000		139	74-141			
1,1,2-Trichloroethane	0.0265	0.00500	mg/kg wet	0.02000		132	73-140			
1,1-Dichloroethane	0.0209	0.00500	mg/kg wet	0.02000		104	60-130			
1,1-Dichloroethene	0.0187	0.00500	mg/kg wet	0.02000		93.6	62-142			
1,1-Dichloropropene	0.0205	0.00500	mg/kg wet	0.02000		102	63-142			
1,2-Dibromoethane	0.0225	0.00500	mg/kg wet	0.02000		112	72-140			
1,2-Dichloroethane	0.0276	0.00500	mg/kg wet	0.02000		138	70-142			
1,2-Dichloropropane	0.0245	0.00500	mg/kg wet	0.02000		122	66-139			
1,3-Dichloropropane	0.0260	0.00500	mg/kg wet	0.02000		130	75-139			
2,2-Dichloropropane	0.0197	0.00500	mg/kg wet	0.02000		98.6	10-180			
2-Butanone	0.0983	0.0200	mg/kg wet	0.08000		123	44-120			L
2-Chlorotoluene	0.0227	0.00500	mg/kg wet	0.02000		114	69-137			
2-Hexanone	0.149	0.0200	mg/kg wet	0.08000		187	10-172			L
4-Chlorotoluene	0.0211	0.00500	mg/kg wet	0.02000		105	71-140			
4-Methyl-2-pentanone	0.116	0.0200	mg/kg wet	0.08000		145	10-185			
Acetone	0.0948	0.0500	mg/kg wet	0.08000		118	10-229			
Acetonitrile	0.0301	0.0400	mg/kg wet	0.02000		150	35-169			
Acrylonitrile	0.0269	0.0200	mg/kg wet	0.02000		135	64-150			
Allyl chloride	0.0175	0.0100	mg/kg wet	0.02000		87.6	50-149			
Benzene	0.0215	0.00500	mg/kg wet	0.02000		108	64-138			
Bromobenzene	0.0209	0.00500	mg/kg wet	0.02000		104	73-140			
Bromochloromethane	0.0166	0.00500	mg/kg wet	0.02000		83.2	72-132			
Bromodichloromethane	0.0257	0.00500	mg/kg wet	0.02000		129	72-138			
Bromoform	0.0261	0.00500	mg/kg wet	0.02000		130	70-144			
omomethane	0.0366	0.00500	mg/kg wet	0.02000		183	10-199			
Carbon Disulfide	0.0119	0.0200	mg/kg wet	0.02000		59.4	38-148			
Carbon Tetrachloride	0.0185	0.00500	mg/kg wet	0.02000		92.4	49-148			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030319 - VOC PREP										
LCS (1030319-BS1)				Prepared: 07/20/10 Analyzed: 07/21/10						
Chlorobenzene	0.0198	0.00500	mg/kg wet	0.02000		98.8	70-135			
Chloroethane	0.0245	0.00500	mg/kg wet	0.02000		123	17-186			
Chloroform	0.0199	0.00500	mg/kg wet	0.02000		99.4	64-134			
Chloromethane	0.0309	0.00500	mg/kg wet	0.02000		154	47-143			L
cis-1,2-Dichloroethene	0.0207	0.00500	mg/kg wet	0.02000		103	66-138			
cis-1,3-Dichloropropene	0.0242	0.00500	mg/kg wet	0.02000		121	66-141			
Dibromochloromethane	0.0213	0.00500	mg/kg wet	0.02000		106	70-139			
Dibromomethane	0.0240	0.00500	mg/kg wet	0.02000		120	76-135			
Dichlorodifluoromethane	0.0224	0.00500	mg/kg wet	0.02000		112	20-181			
Ethylbenzene	0.0206	0.00500	mg/kg wet	0.02000		103	71-134			
Iodomethane	0.00943	0.0100	mg/kg wet	0.02000		47.2	13-162			
Methylene Chloride	0.0190	0.00500	mg/kg wet	0.02000		94.9	10-195			
Methyl tert-Butyl Ether	0.0354	0.0100	mg/kg wet	0.02000		177	54-153			L
m,p-Xylene	0.0438	0.0100	mg/kg wet	0.04000		110	70-138			
n-Hexane	0.0115	0.00500	mg/kg wet	0.02000		57.4	10-185			
Xylene	0.0208	0.00500	mg/kg wet	0.02000		104	72-139			
Styrene	0.0217	0.00500	mg/kg wet	0.02000		108	71-142			
Tetrachloroethene	0.0146	0.00500	mg/kg wet	0.02000		73.2	41-161			
Toluene	0.0213	0.00500	mg/kg wet	0.02000		106	70-136			
trans-1,2-Dichloroethene	0.0161	0.00500	mg/kg wet	0.02000		80.6	36-159			
trans-1,3-Dichloropropene	0.0261	0.00500	mg/kg wet	0.02000		130	64-142			
Trichloroethene	0.0167	0.00500	mg/kg wet	0.02000		83.5	65-136			
Trichlorofluoromethane	0.0219	0.00500	mg/kg wet	0.02000		110	41-163			
Vinyl Chloride	0.0268	0.00500	mg/kg wet	0.02000		134	45-149			
Vinyl acetate	0.0326	0.0100	mg/kg wet	0.02000		163	10-208			
Surrogate: 4-Bromofluorobenzene	*47.6*		*ug/L*	*50.00*		*95.1*	*41-140*			
Surrogate: Dibromofluoromethane	*36.3*		*ug/L*	*50.00*		*72.6*	*33-129*			
Surrogate: Toluene-d8	*44.6*		*ug/L*	*50.00*		*89.1*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*36.5*		*ug/L*	*50.00*		*73.0*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030319 - VOC PREP										
LCS Dup (1030319-BSD1)				Prepared: 07/20/10 Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	0.0252	0.00500	mg/kg wet	0.02000		126	69-142	23.1	23	R
1,1,1-Trichloroethane	0.0263	0.00500	mg/kg wet	0.02000		131	58-127	21.4	20	L, R
1,1,2,2-Tetrachloroethane	0.0354	0.00500	mg/kg wet	0.02000		177	74-141	24.0	20	L, R
1,1,2-Trichloroethane	0.0321	0.00500	mg/kg wet	0.02000		160	73-140	19.1	15	L, R
1,1-Dichloroethane	0.0249	0.00500	mg/kg wet	0.02000		124	60-130	17.6	20	
1,1-Dichloroethene	0.0225	0.00500	mg/kg wet	0.02000		113	62-142	18.5	20	
1,1-Dichloropropene	0.0250	0.00500	mg/kg wet	0.02000		125	63-142	20.1	24	
1,2-Dibromoethane	0.0264	0.00500	mg/kg wet	0.02000		132	72-140	16.0	20	
1,2-Dichloroethane	0.0309	0.00500	mg/kg wet	0.02000		154	70-142	11.1	18	L
1,2-Dichloropropane	0.0289	0.00500	mg/kg wet	0.02000		145	66-139	16.6	22	L
1,3-Dichloropropane	0.0305	0.00500	mg/kg wet	0.02000		152	75-139	15.6	17	L
2,2-Dichloropropane	0.0245	0.00500	mg/kg wet	0.02000		122	10-180	21.4	40	
2-Butanone	0.109	0.0200	mg/kg wet	0.08000		136	44-120	10.3	29	L
2-Chlorotoluene	0.0294	0.00500	mg/kg wet	0.02000		147	69-137	25.6	30	L
Hexanone	0.177	0.0200	mg/kg wet	0.08000		222	10-172	17.0	40	L
hlorotoluene	0.0282	0.00500	mg/kg wet	0.02000		141	71-140	28.9	30	L
4-Methyl-2-pentanone	0.138	0.0200	mg/kg wet	0.08000		173	10-185	17.9	100	
Acetone	0.102	0.0500	mg/kg wet	0.08000		128	10-229	7.78	40	
Acetonitrile	0.0340	0.0400	mg/kg wet	0.02000		170	35-169	12.4	69	L
Acrylonitrile	0.0280	0.0200	mg/kg wet	0.02000		140	64-150	3.82	34	
Allyl chloride	0.0209	0.0100	mg/kg wet	0.02000		104	50-149	17.5	35	
Benzene	0.0251	0.00500	mg/kg wet	0.02000		126	64-138	15.3	25	
Bromobenzene	0.0263	0.00500	mg/kg wet	0.02000		131	73-140	22.9	30	
Bromochloromethane	0.0188	0.00500	mg/kg wet	0.02000		94.2	72-132	12.5	25	
Bromodichloromethane	0.0303	0.00500	mg/kg wet	0.02000		152	72-138	16.5	25	L
Bromoform	0.0336	0.00500	mg/kg wet	0.02000		168	70-144	25.2	30	L
Bromomethane	0.0385	0.00500	mg/kg wet	0.02000		193	10-199	5.11	40	
Carbon Disulfide	0.0142	0.0200	mg/kg wet	0.02000		71.0	38-148	17.8	36	
Carbon Tetrachloride	0.0232	0.00500	mg/kg wet	0.02000		116	49-148	22.6	34	
Chlorobenzene	0.0248	0.00500	mg/kg wet	0.02000		124	70-135	22.5	21	R
Chloroethane	0.0261	0.00500	mg/kg wet	0.02000		130	17-186	6.09	99	
Chloroform	0.0234	0.00500	mg/kg wet	0.02000		117	64-134	16.4	28	
Chloromethane	0.0328	0.00500	mg/kg wet	0.02000		164	47-143	6.21	25	L
cis-1,2-Dichloroethene	0.0246	0.00500	mg/kg wet	0.02000		123	66-138	17.5	25	
cis-1,3-Dichloropropene	0.0288	0.00500	mg/kg wet	0.02000		144	66-141	17.4	25	L
Dibromochloromethane	0.0259	0.00500	mg/kg wet	0.02000		130	70-139	19.6	25	
Dibromomethane	0.0278	0.00500	mg/kg wet	0.02000		139	76-135	14.7	23	L
Dichlorodifluoromethane	0.0245	0.00500	mg/kg wet	0.02000		122	20-181	9.18	34	
Ethylbenzene	0.0261	0.00500	mg/kg wet	0.02000		131	71-134	23.4	31	
Iodomethane	0.0121	0.0100	mg/kg wet	0.02000		60.6	13-162	25.0	31	
Methylene Chloride	0.0214	0.00500	mg/kg wet	0.02000		107	10-195	12.1	51	
ethyl tert-Butyl Ether	0.0399	0.0100	mg/kg wet	0.02000		200	54-153	12.1	35	L
p-Xylene	0.0553	0.0100	mg/kg wet	0.04000		138	70-138	23.1	31	
n-Hexane	0.0164	0.00500	mg/kg wet	0.02000		82.2	10-185	35.4	60	
o-Xylene	0.0262	0.00500	mg/kg wet	0.02000		131	72-139	23.1	23	R

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030319 - VOC PREP										
LCS Dup (1030319-BSD1)				Prepared: 07/20/10 Analyzed: 07/21/10						
Styrene	0.0277	0.00500	mg/kg wet	0.02000		139	71-142	24.5	22	R
Tetrachloroethene	0.0155	0.00500	mg/kg wet	0.02000		77.4	41-161	5.58	40	
Toluene	0.0259	0.00500	mg/kg wet	0.02000		129	70-136	19.5	22	
trans-1,2-Dichloroethene	0.0194	0.00500	mg/kg wet	0.02000		97.2	36-159	18.7	24	
trans-1,3-Dichloropropene	0.0307	0.00500	mg/kg wet	0.02000		154	64-142	16.3	20	L
Trichloroethene	0.0204	0.00500	mg/kg wet	0.02000		102	65-136	19.8	23	
Trichlorofluoromethane	0.0232	0.00500	mg/kg wet	0.02000		116	41-163	5.94	26	
Vinyl Chloride	0.0297	0.00500	mg/kg wet	0.02000		148	45-149	10.3	27	
Vinyl acetate	0.0388	0.0100	mg/kg wet	0.02000		194	10-208	17.3	77	
Surrogate: 4-Bromofluorobenzene	*47.7*		*ug/L*	*50.00*		*95.4*	*41-140*			
Surrogate: Dibromofluoromethane	*35.8*		*ug/L*	*50.00*		*71.7*	*33-129*			
Surrogate: Toluene-d8	*44.4*		*ug/L*	*50.00*		*88.8*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*36.5*		*ug/L*	*50.00*		*73.0*	*31-123*			
Batch 1031011 - VOC PREP										
nk (1031011-BLK1)				Prepared & Analyzed: 07/21/10						
,,1,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,1-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1,2,2-Tetrachloroethane	BDL	0.00500	mg/kg wet							
1,1,2-Trichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethane	BDL	0.00500	mg/kg wet							
1,1-Dichloroethene	BDL	0.00500	mg/kg wet							
1,1-Dichloropropene	BDL	0.00500	mg/kg wet							
1,2-Dibromoethane	BDL	0.00500	mg/kg wet							
1,2-Dichloroethane	BDL	0.00500	mg/kg wet							
1,2-Dichloropropane	BDL	0.00500	mg/kg wet							
1,3-Dichloropropane	BDL	0.00500	mg/kg wet							
2,2-Dichloropropane	BDL	0.00500	mg/kg wet							
2-Butanone	BDL	0.0200	mg/kg wet							
2-Chlorotoluene	BDL	0.00500	mg/kg wet							
2-Hexanone	BDL	0.0200	mg/kg wet							
4-Chlorotoluene	BDL	0.00500	mg/kg wet							
4-Methyl-2-pentanone	BDL	0.0200	mg/kg wet							
Acetone	BDL	0.0500	mg/kg wet							
Acetonitrile	BDL	0.0400	mg/kg wet							
Acrolein	BDL	0.0200	mg/kg wet							
Acrylonitrile	BDL	0.0200	mg/kg wet							
Allyl chloride	BDL	0.0100	mg/kg wet							
Benzene	BDL	0.00500	mg/kg wet							
Bromobenzene	BDL	0.00500	mg/kg wet							
Bromochloromethane	BDL	0.00500	mg/kg wet							
Bromodichloromethane	BDL	0.00500	mg/kg wet							
ıoform	BDL	0.00500	mg/kg wet							
ıomomethane	BDL	0.00500	mg/kg wet							

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031011 - VOC PREP										
Blank (1031011-BLK1)				Prepared & Analyzed: 07/21/10						
Carbon Disulfide	BDL	0.0200	mg/kg wet							
Carbon Tetrachloride	BDL	0.00500	mg/kg wet							
Chlorobenzene	BDL	0.00500	mg/kg wet							
Chloroethane	BDL	0.00500	mg/kg wet							
Chloroform	BDL	0.00500	mg/kg wet							
Chloromethane	BDL	0.00500	mg/kg wet							
cis-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
cis-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Dibromochloromethane	BDL	0.00500	mg/kg wet							
Dibromomethane	BDL	0.00500	mg/kg wet							
Dichlorodifluoromethane	BDL	0.00500	mg/kg wet							
Ethylbenzene	BDL	0.00500	mg/kg wet							
Iodomethane	BDL	0.0100	mg/kg wet							
Methylene Chloride	0.00853	0.00500	mg/kg wet							O-01
'ethyl tert-Butyl Ether	BDL	0.0100	mg/kg wet							
,p-Xylene	BDL	0.0100	mg/kg wet							
n-Hexane	BDL	0.00500	mg/kg wet							
o-Xylene	BDL	0.00500	mg/kg wet							
Styrene	BDL	0.00500	mg/kg wet							
Tetrachloroethene	BDL	0.00500	mg/kg wet							
Toluene	BDL	0.00500	mg/kg wet							
trans-1,2-Dichloroethene	BDL	0.00500	mg/kg wet							
trans-1,3-Dichloropropene	BDL	0.00500	mg/kg wet							
Trichloroethene	BDL	0.00500	mg/kg wet							
Trichlorofluoromethane	BDL	0.00500	mg/kg wet							
Vinyl Chloride	BDL	0.00500	mg/kg wet							
Vinyl acetate	BDL	0.0100	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*39.0*		*ug/L*	*50.00*		*77.9*	*41-140*			
Surrogate: Dibromofluoromethane	*38.2*		*ug/L*	*50.00*		*76.5*	*33-129*			
Surrogate: Toluene-d8	*41.5*		*ug/L*	*50.00*		*82.9*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*39.7*		*ug/L*	*50.00*		*79.4*	*31-123*			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031011 - VOC PREP										
LCS (1031011-BS1)				Prepared & Analyzed: 07/21/10						
1,1,1,2-Tetrachloroethane	0.0161	0.00500	mg/kg wet	0.02000		80.4	69-142			
1,1,1-Trichloroethane	0.0160	0.00500	mg/kg wet	0.02000		80.2	58-127			
1,1,2,2-Tetrachloroethane	0.0237	0.00500	mg/kg wet	0.02000		118	74-141			
1,1,2-Trichloroethane	0.0226	0.00500	mg/kg wet	0.02000		113	73-140			
1,1-Dichloroethane	0.0194	0.00500	mg/kg wet	0.02000		96.8	60-130			
1,1-Dichloroethene	0.0174	0.00500	mg/kg wet	0.02000		87.2	62-142			
1,1-Dichloropropene	0.0158	0.00500	mg/kg wet	0.02000		79.2	63-142			
1,2-Dibromoethane	0.0188	0.00500	mg/kg wet	0.02000		93.8	72-140			
1,2-Dichloroethane	0.0204	0.00500	mg/kg wet	0.02000		102	70-142			
1,2-Dichloropropane	0.0202	0.00500	mg/kg wet	0.02000		101	66-139			
1,3-Dichloropropane	0.0214	0.00500	mg/kg wet	0.02000		107	75-139			
2,2-Dichloropropane	0.0169	0.00500	mg/kg wet	0.02000		84.6	10-180			
2-Butanone	0.104	0.0200	mg/kg wet	0.08000		130	44-120			L
2-Chlorotoluene	0.0175	0.00500	mg/kg wet	0.02000		87.4	69-137			
2-Hexanone	0.118	0.0200	mg/kg wet	0.08000		148	10-172			
hlorotoluene	0.0171	0.00500	mg/kg wet	0.02000		85.6	71-140			
ethyl-2-pentanone	0.102	0.0200	mg/kg wet	0.08000		127	10-185			
Acetone	0.125	0.0500	mg/kg wet	0.08000		157	10-229			
Acetonitrile	0.0290	0.0400	mg/kg wet	0.02000		145	35-169			
Acrylonitrile	0.0278	0.0200	mg/kg wet	0.02000		139	64-150			
Allyl chloride	0.0179	0.0100	mg/kg wet	0.02000		89.4	50-149			
Benzene	0.0184	0.00500	mg/kg wet	0.02000		92.0	64-138			
Bromobenzene	0.0168	0.00500	mg/kg wet	0.02000		83.9	73-140			
Bromochloromethane	0.0165	0.00500	mg/kg wet	0.02000		82.4	72-132			
Bromodichloromethane	0.0195	0.00500	mg/kg wet	0.02000		97.4	72-138			
Bromoform	0.0199	0.00500	mg/kg wet	0.02000		99.4	70-144			
Bromomethane	0.0659	0.00500	mg/kg wet	0.02000		330	10-199			L
Carbon Disulfide	0.0106	0.0200	mg/kg wet	0.02000		53.2	38-148			
Carbon Tetrachloride	0.0135	0.00500	mg/kg wet	0.02000		67.4	49-148			
Chlorobenzene	0.0177	0.00500	mg/kg wet	0.02000		88.5	70-135			
Chloroethane	0.125	0.00500	mg/kg wet	0.02000		625	17-186			L
Chloroform	0.0181	0.00500	mg/kg wet	0.02000		90.4	64-134			
Chloromethane	0.0331	0.00500	mg/kg wet	0.02000		165	47-143			L
cis-1,2-Dichloroethene	0.0184	0.00500	mg/kg wet	0.02000		92.0	66-138			
cis-1,3-Dichloropropene	0.0195	0.00500	mg/kg wet	0.02000		97.6	66-141			
Dibromochloromethane	0.0177	0.00500	mg/kg wet	0.02000		88.4	70-139			
Dibromomethane	0.0206	0.00500	mg/kg wet	0.02000		103	76-135			
Dichlorodifluoromethane	0.0316	0.00500	mg/kg wet	0.02000		158	20-181			
Ethylbenzene	0.0175	0.00500	mg/kg wet	0.02000		87.6	71-134			
Iodomethane	0.0112	0.0100	mg/kg wet	0.02000		55.8	13-162			
Methylene Chloride	0.0256	0.00500	mg/kg wet	0.02000		128	10-195			B
Methyl tert-Butyl Ether	0.0234	0.0100	mg/kg wet	0.02000		117	54-153			
Xylene	0.0343	0.0100	mg/kg wet	0.04000		85.8	70-138			
xane	0.0298	0.00500	mg/kg wet	0.02000		149	10-185			
o-Xylene	0.0165	0.00500	mg/kg wet	0.02000		82.6	72-139			

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031011 - VOC PREP										
LCS (1031011-BS1)				Prepared & Analyzed: 07/21/10						
Styrene	0.0181	0.00500	mg/kg wet	0.02000		90.6	71-142			
Tetrachloroethene	0.0142	0.00500	mg/kg wet	0.02000		70.8	41-161			
Toluene	0.0172	0.00500	mg/kg wet	0.02000		85.9	70-136			
trans-1,2-Dichloroethene	0.0153	0.00500	mg/kg wet	0.02000		76.6	36-159			
trans-1,3-Dichloropropene	0.0222	0.00500	mg/kg wet	0.02000		111	64-142			
Trichloroethene	0.0150	0.00500	mg/kg wet	0.02000		74.8	65-136			
Trichlorofluoromethane	0.0656	0.00500	mg/kg wet	0.02000		328	41-163			L
Vinyl Chloride	0.0698	0.00500	mg/kg wet	0.02000		349	45-149			L
Vinyl acetate	0.0241	0.0100	mg/kg wet	0.02000		120	10-208			
Surrogate: 4-Bromofluorobenzene	*38.7*		*ug/L*	*50.00*		*77.4*	*41-140*			
Surrogate: Dibromofluoromethane	*36.0*		*ug/L*	*50.00*		*72.0*	*33-129*			
Surrogate: Toluene-d8	*39.5*		*ug/L*	*50.00*		*79.0*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*41.2*		*ug/L*	*50.00*		*82.5*	*31-123*			
LCS Dup (1031011-BSD1)				Prepared & Analyzed: 07/21/10						
1,2-Tetrachloroethane	0.0210	0.00500	mg/kg wet	0.02000		105	69-142	26.6	23	R
1,1,1-Trichloroethane	0.0200	0.00500	mg/kg wet	0.02000		100	58-127	22.2	20	R
1,1,2,2-Tetrachloroethane	0.0274	0.00500	mg/kg wet	0.02000		137	74-141	14.4	20	
1,1,2-Trichloroethane	0.0278	0.00500	mg/kg wet	0.02000		139	73-140	20.8	15	R
1,1-Dichloroethane	0.0231	0.00500	mg/kg wet	0.02000		116	60-130	17.8	20	
1,1-Dichloroethene	0.0214	0.00500	mg/kg wet	0.02000		107	62-142	20.2	20	R
1,1-Dichloropropene	0.0195	0.00500	mg/kg wet	0.02000		97.5	63-142	20.7	24	
1,2-Dibromoethane	0.0211	0.00500	mg/kg wet	0.02000		106	72-140	11.8	20	
1,2-Dichloroethane	0.0230	0.00500	mg/kg wet	0.02000		115	70-142	11.8	18	
1,2-Dichloropropane	0.0240	0.00500	mg/kg wet	0.02000		120	66-139	17.1	22	
1,3-Dichloropropane	0.0254	0.00500	mg/kg wet	0.02000		127	75-139	16.8	17	
2,2-Dichloropropane	0.0211	0.00500	mg/kg wet	0.02000		106	10-180	22.1	40	
2-Butanone	0.108	0.0200	mg/kg wet	0.08000		135	44-120	4.40	29	L
2-Chlorotoluene	0.0242	0.00500	mg/kg wet	0.02000		121	69-137	32.1	30	R
2-Hexanone	0.133	0.0200	mg/kg wet	0.08000		166	10-172	11.4	40	
4-Chlorotoluene	0.0232	0.00500	mg/kg wet	0.02000		116	71-140	30.0	30	
4-Methyl-2-pentanone	0.115	0.0200	mg/kg wet	0.08000		144	10-185	12.4	100	
Acetone	0.120	0.0500	mg/kg wet	0.08000		150	10-229	4.50	40	
Acetonitrile	0.0278	0.0400	mg/kg wet	0.02000		139	35-169	4.05	69	
Acrylonitrile	0.0278	0.0200	mg/kg wet	0.02000		139	64-150	0.360	34	
Allyl chloride	0.0204	0.0100	mg/kg wet	0.02000		102	50-149	13.3	35	
Benzene	0.0218	0.00500	mg/kg wet	0.02000		109	64-138	17.1	25	
Bromobenzene	0.0222	0.00500	mg/kg wet	0.02000		111	73-140	28.0	30	
Bromochloromethane	0.0183	0.00500	mg/kg wet	0.02000		91.4	72-132	10.4	25	
Bromodichloromethane	0.0236	0.00500	mg/kg wet	0.02000		118	72-138	19.1	25	
Bromoform	0.0241	0.00500	mg/kg wet	0.02000		120	70-144	19.1	30	
Bromomethane	0.0709	0.00500	mg/kg wet	0.02000		354	10-199	7.31	40	L
Carbon Disulfide	0.0127	0.0200	mg/kg wet	0.02000		63.4	38-148	17.4	36	
Carbon Tetrachloride	0.0168	0.00500	mg/kg wet	0.02000		83.8	49-148	21.8	34	
Chlorobenzene	0.0228	0.00500	mg/kg wet	0.02000		114	70-135	25.0	21	R

Volatile Organic Compounds by EPA Method 8260A/B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031011 - VOC PREP										
LCS Dup (1031011-BSD1)				Prepared & Analyzed: 07/21/10						
Chloroethane	0.129	0.00500	mg/kg wet	0.02000		645	17-186	3.08	99	L
Chloroform	0.0216	0.00500	mg/kg wet	0.02000		108	64-134	17.8	28	
Chloromethane	0.0340	0.00500	mg/kg wet	0.02000		170	47-143	2.77	25	L
cis-1,2-Dichloroethene	0.0218	0.00500	mg/kg wet	0.02000		109	66-138	16.9	25	
cis-1,3-Dichloropropene	0.0233	0.00500	mg/kg wet	0.02000		116	66-141	17.6	25	
Dibromochloromethane	0.0216	0.00500	mg/kg wet	0.02000		108	70-139	19.8	25	
Dibromomethane	0.0233	0.00500	mg/kg wet	0.02000		116	76-135	12.4	23	
Dichlorodifluoromethane	0.0308	0.00500	mg/kg wet	0.02000		154	20-181	2.60	34	
Ethylbenzene	0.0233	0.00500	mg/kg wet	0.02000		117	71-134	28.4	31	
Iodomethane	0.0131	0.0100	mg/kg wet	0.02000		65.6	13-162	16.2	31	
Methylene Chloride	0.0280	0.00500	mg/kg wet	0.02000		140	10-195	8.87	51	B
Methyl tert-Butyl Ether	0.0251	0.0100	mg/kg wet	0.02000		126	54-153	7.25	35	
m,p-Xylene	0.0459	0.0100	mg/kg wet	0.04000		115	70-138	28.8	31	
n-Hexane	0.0320	0.00500	mg/kg wet	0.02000		160	10-185	6.92	60	
o-Xylene	0.0225	0.00500	mg/kg wet	0.02000		112	72-139	30.7	23	R
Styrene	0.0249	0.00500	mg/kg wet	0.02000		124	71-142	31.6	22	R
Tetrachloroethene	0.0178	0.00500	mg/kg wet	0.02000		89.2	41-161	23.1	40	
Toluene	0.0215	0.00500	mg/kg wet	0.02000		107	70-136	22.2	22	R
trans-1,2-Dichloroethene	0.0184	0.00500	mg/kg wet	0.02000		91.8	36-159	18.1	24	
trans-1,3-Dichloropropene	0.0269	0.00500	mg/kg wet	0.02000		134	64-142	19.3	20	
Trichloroethene	0.0185	0.00500	mg/kg wet	0.02000		92.6	65-136	21.3	23	
Trichlorofluoromethane	0.0694	0.00500	mg/kg wet	0.02000		347	41-163	5.64	26	L
Vinyl Chloride	0.0737	0.00500	mg/kg wet	0.02000		368	45-149	5.41	27	L
Vinyl acetate	0.0256	0.0100	mg/kg wet	0.02000		128	10-208	6.24	77	
Surrogate: 4-Bromofluorobenzene	*39.6*		*ug/L*	*50.00*		*79.3*	*41-140*			
Surrogate: Dibromofluoromethane	*36.4*		*ug/L*	*50.00*		*72.8*	*33-129*			
Surrogate: Toluene-d8	*39.4*		*ug/L*	*50.00*		*78.7*	*44-130*			
Surrogate: 1,2-Dichloroethane-d4	*40.9*		*ug/L*	*50.00*		*81.7*	*31-123*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029211 - PREP_SVOC_S										
Blank (1029211-BLK1)				Prepared: 07/16/10 Analyzed: 07/20/10						
Acenaphthene	BDL	0.100	mg/kg wet							
Acenaphthylene	BDL	0.100	mg/kg wet							
Anthracene	BDL	0.100	mg/kg wet							
Benz(a)anthracene	BDL	0.100	mg/kg wet							
Benzo(a)pyrene	BDL	0.100	mg/kg wet							
Benzo(b)fluoranthene	BDL	0.100	mg/kg wet							
Benzo(g,h,i)perylene	BDL	0.100	mg/kg wet							
Benzo(k)fluoranthene	BDL	0.100	mg/kg wet							
Chrysene	BDL	0.100	mg/kg wet							
Dibenz(a,h)anthracene	BDL	0.100	mg/kg wet							
Fluoranthene	BDL	0.100	mg/kg wet							
Fluorene	BDL	0.100	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BDL	0.100	mg/kg wet							
Naphthalene	BDL	0.100	mg/kg wet							
Phenanthrene	BDL	0.100	mg/kg wet							
Pyrene	BDL	0.100	mg/kg wet							
Surrogate: Nitrobenzene-d5	*1.30*		*mg/kg wet*	*1.333*		*97.7*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*0.979*		*mg/kg wet*	*1.333*		*73.4*	*56-121*			
Surrogate: Terphenyl-d14	*1.04*		*mg/kg wet*	*1.333*		*78.3*	*40-140*			
LCS (1029211-BS1)				Prepared: 07/16/10 Analyzed: 07/20/10						
2-Methylnaphthalene	2.46	0.100	mg/kg wet	3.333		73.7	24-125			
Acenaphthene	2.89	0.100	mg/kg wet	3.333		86.8	60-110			
Acenaphthylene	2.73	0.100	mg/kg wet	3.333		82.0	45-124			
Anthracene	2.19	0.100	mg/kg wet	3.333		65.7	46-117			
Benz(a)anthracene	2.97	0.100	mg/kg wet	3.333		89.1	43-139			
Benzo(a)pyrene	3.06	0.100	mg/kg wet	3.333		91.7	40-147			
Benzo(b)fluoranthene	3.00	0.100	mg/kg wet	3.333		90.1	40-157			
Benzo(g,h,i)perylene	3.18	0.100	mg/kg wet	3.333		95.5	37-159			
Benzo(k)fluoranthene	2.08	0.100	mg/kg wet	3.333		62.3	32-123			
Chrysene	2.86	0.100	mg/kg wet	3.333		85.9	38-136			
Dibenz(a,h)anthracene	2.82	0.100	mg/kg wet	3.333		84.7	20-181			
Fluoranthene	1.95	0.100	mg/kg wet	3.333		58.4	49-118			
Fluorene	2.81	0.100	mg/kg wet	3.333		84.2	52-129			
Indeno(1,2,3-cd)pyrene	2.61	0.100	mg/kg wet	3.333		78.3	40-160			
Naphthalene	2.72	0.100	mg/kg wet	3.333		81.6	39-118			
Phenanthrene	2.66	0.100	mg/kg wet	3.333		79.8	46-109			
Pyrene	3.01	0.100	mg/kg wet	3.333		90.3	47-123			
Surrogate: Nitrobenzene-d5	*1.06*		*mg/kg wet*	*1.333*		*79.7*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.08*		*mg/kg wet*	*1.333*		*80.6*	*56-121*			
Surrogate: Terphenyl-d14	*1.09*		*mg/kg wet*	*1.333*		*82.0*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1029211 - PREP_SVOC_S										
LCS Dup (1029211-BSD1)				Prepared: 07/16/10 Analyzed: 07/20/10						
2-Methylnaphthalene	2.51	0.100	mg/kg wet	3.333		75.3	24-125	2.09	20	
Acenaphthene	3.14	0.100	mg/kg wet	3.333		94.1	60-110	7.99	13	
Acenaphthylene	2.90	0.100	mg/kg wet	3.333		87.0	45-124	5.91	20	
Anthracene	2.02	0.100	mg/kg wet	3.333		60.6	46-117	8.08	20	
Benz(a)anthracene	2.89	0.100	mg/kg wet	3.333		86.6	43-139	2.80	20	
Benzo(a)pyrene	3.36	0.100	mg/kg wet	3.333		101	40-147	9.41	20	
Benzo(b)fluoranthene	3.02	0.100	mg/kg wet	3.333		90.6	40-157	0.587	25	
Benzo(g,h,i)perylene	3.34	0.100	mg/kg wet	3.333		100	37-159	4.94	25	
Benzo(k)fluoranthene	2.13	0.100	mg/kg wet	3.333		63.8	32-123	2.40	40	
Chrysene	3.19	0.100	mg/kg wet	3.333		95.6	38-136	10.7	20	
Dibenz(a,h)anthracene	3.33	0.100	mg/kg wet	3.333		100	20-181	16.6	20	
Fluoranthene	1.76	0.100	mg/kg wet	3.333		52.8	49-118	10.2	20	
Fluorene	2.90	0.100	mg/kg wet	3.333		86.9	52-129	3.14	20	
Indeno(1,2,3-cd)pyrene	3.13	0.100	mg/kg wet	3.333		94.0	40-160	18.2	20	
Naphthalene	2.87	0.100	mg/kg wet	3.333		86.1	39-118	5.33	20	
nanthrene	2.51	0.100	mg/kg wet	3.333		75.3	46-109	5.70	20	
rene	4.09	0.100	mg/kg wet	3.333		123	47-123	30.3	20	R
Surrogate: Nitrobenzene-d5	*1.16*		*mg/kg wet*	*1.333*		*86.9*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.14*		*mg/kg wet*	*1.333*		*85.4*	*56-121*			
Surrogate: Terphenyl-d14	*1.37*		*mg/kg wet*	*1.333*		*103*	*40-140*			
Batch 1030120 - PREP_SVOC_S										
Blank (1030120-BLK1)				Prepared: 07/21/10 Analyzed: 07/25/10						
2-Methylnaphthalene	BDL	0.100	mg/kg wet							
Acenaphthene	BDL	0.100	mg/kg wet							
Acenaphthylene	BDL	0.100	mg/kg wet							
Anthracene	BDL	0.100	mg/kg wet							
Benz(a)anthracene	BDL	0.100	mg/kg wet							
Benzo(a)pyrene	BDL	0.100	mg/kg wet							
Benzo(b)fluoranthene	BDL	0.100	mg/kg wet							
Benzo(g,h,i)perylene	BDL	0.100	mg/kg wet							
Benzo(k)fluoranthene	BDL	0.100	mg/kg wet							
Chrysene	BDL	0.100	mg/kg wet							
Dibenz(a,h)anthracene	BDL	0.100	mg/kg wet							
Fluoranthene	BDL	0.100	mg/kg wet							
Fluorene	BDL	0.100	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BDL	0.100	mg/kg wet							
Naphthalene	BDL	0.100	mg/kg wet							
Phenanthrene	BDL	0.100	mg/kg wet							
Pyrene	BDL	0.100	mg/kg wet							
Surrogate: Nitrobenzene-d5	*1.63*		*mg/kg wet*	*1.333*		*122*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.27*		*mg/kg wet*	*1.333*		*95.5*	*56-121*			
ogate: Terphenyl-d14	*1.12*		*mg/kg wet*	*1.333*		*84.1*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030120 - PREP_SVOC_S										
LCS (1030120-BS1)				Prepared: 07/21/10 Analyzed: 07/25/10						
2-Methylnaphthalene	1.67	0.100	mg/kg wet	3.333		50.0	24-125			
Acenaphthene	2.70	0.100	mg/kg wet	3.333		81.0	60-110			
Acenaphthylene	2.90	0.100	mg/kg wet	3.333		87.0	45-124			
Anthracene	2.40	0.100	mg/kg wet	3.333		71.9	46-117			
Benz(a)anthracene	2.92	0.100	mg/kg wet	3.333		87.6	43-139			
Benzo(a)pyrene	3.47	0.100	mg/kg wet	3.333		104	40-147			
Benzo(b)fluoranthene	3.12	0.100	mg/kg wet	3.333		93.5	40-157			
Benzo(g,h,i)perylene	3.36	0.100	mg/kg wet	3.333		101	37-159			
Benzo(k)fluoranthene	2.48	0.100	mg/kg wet	3.333		74.3	32-123			
Chrysene	2.94	0.100	mg/kg wet	3.333		88.3	38-136			
Dibenz(a,h)anthracene	3.40	0.100	mg/kg wet	3.333		102	20-181			
Fluoranthene	1.99	0.100	mg/kg wet	3.333		59.6	49-118			
Fluorene	2.82	0.100	mg/kg wet	3.333		84.6	52-129			
Indeno(1,2,3-cd)pyrene	3.01	0.100	mg/kg wet	3.333		90.3	40-160			
ohthalene	2.95	0.100	mg/kg wet	3.333		88.5	39-118			
nanthrene	3.12	0.100	mg/kg wet	3.333		93.7	46-109			
Pyrene	2.85	0.100	mg/kg wet	3.333		85.5	47-123			
Surrogate: Nitrobenzene-d5	*1.63*		*mg/kg wet*	*1.333*		*122*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.13*		*mg/kg wet*	*1.333*		*85.0*	*56-121*			
Surrogate: Terphenyl-d14	*1.09*		*mg/kg wet*	*1.333*		*81.5*	*40-140*			
LCS Dup (1030120-BSD1)				Prepared: 07/21/10 Analyzed: 07/25/10						
2-Methylnaphthalene	1.68	0.100	mg/kg wet	3.333		50.5	24-125	0.895	20	
Acenaphthene	2.99	0.100	mg/kg wet	3.333		89.7	60-110	10.2	13	
Acenaphthylene	3.21	0.100	mg/kg wet	3.333		96.2	45-124	10.1	20	
Anthracene	2.17	0.100	mg/kg wet	3.333		65.0	46-117	10.1	20	
Benz(a)anthracene	2.97	0.100	mg/kg wet	3.333		89.2	43-139	1.84	20	
Benzo(a)pyrene	3.79	0.100	mg/kg wet	3.333		114	40-147	8.90	20	
Benzo(b)fluoranthene	3.22	0.100	mg/kg wet	3.333		96.6	40-157	3.24	25	
Benzo(g,h,i)perylene	3.60	0.100	mg/kg wet	3.333		108	37-159	6.99	25	
Benzo(k)fluoranthene	2.72	0.100	mg/kg wet	3.333		81.7	32-123	9.57	40	
Chrysene	2.68	0.100	mg/kg wet	3.333		80.4	38-136	9.47	20	
Dibenz(a,h)anthracene	3.69	0.100	mg/kg wet	3.333		111	20-181	8.29	20	
Fluoranthene	1.90	0.100	mg/kg wet	3.333		57.1	49-118	4.30	20	
Fluorene	2.83	0.100	mg/kg wet	3.333		84.8	52-129	0.248	20	
Indeno(1,2,3-cd)pyrene	3.20	0.100	mg/kg wet	3.333		96.1	40-160	6.27	20	
Naphthalene	3.22	0.100	mg/kg wet	3.333		96.6	39-118	8.75	20	
Phenanthrene	2.94	0.100	mg/kg wet	3.333		88.3	46-109	6.03	20	
Pyrene	3.04	0.100	mg/kg wet	3.333		91.3	47-123	6.64	20	
Surrogate: Nitrobenzene-d5	*1.61*		*mg/kg wet*	*1.333*		*121*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.12*		*mg/kg wet*	*1.333*		*84.1*	*56-121*			
Surrogate: Terphenyl-d14	*1.00*		*mg/kg wet*	*1.333*		*75.2*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030120 - PREP_SVOC_S										
Matrix Spike (1030120-MS1)	**Source: 10G0482-31**			Prepared: 07/21/10 Analyzed: 07/30/10						
2-Methylnaphthalene	3.23	0.124	mg/kg dry	4.128	ND	78.3	42-117			
Acenaphthene	3.32	0.124	mg/kg dry	4.128	ND	80.4	59-117			
Acenaphthylene	3.19	0.124	mg/kg dry	4.128	ND	77.3	41-130			
Anthracene	3.28	0.124	mg/kg dry	4.128	ND	79.4	40-121			
Benz(a)anthracene	3.54	0.124	mg/kg dry	4.128	ND	85.8	30-137			
Benzo(a)pyrene	4.23	0.124	mg/kg dry	4.128	ND	102	20-152			
Benzo(b)fluoranthene	3.88	0.124	mg/kg dry	4.128	ND	93.9	19-173			
Benzo(g,h,i)perylene	4.80	0.124	mg/kg dry	4.128	ND	116	40-139			
Benzo(k)fluoranthene	3.40	0.124	mg/kg dry	4.128	ND	82.4	10-154			
Chrysene	3.54	0.124	mg/kg dry	4.128	ND	85.8	36-125			
Dibenz(a,h)anthracene	5.13	0.124	mg/kg dry	4.128	ND	124	48-139			
Fluoranthene	2.74	0.124	mg/kg dry	4.128	ND	66.4	15-146			
Fluorene	2.13	0.124	mg/kg dry	4.128	ND	51.6	46-134			
Indeno(1,2,3-cd)pyrene	5.83	0.124	mg/kg dry	4.128	ND	141	44-144			
Naphthalene	3.25	0.124	mg/kg dry	4.128	ND	78.8	33-121			
nanthrene	3.19	0.124	mg/kg dry	4.128	ND	77.2	37-112			
ene	4.17	0.124	mg/kg dry	4.128	ND	101	10-163			
Surrogate: Nitrobenzene-d5	*1.16*		*mg/kg dry*	*1.651*		*70.1*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.73*		*mg/kg dry*	*1.651*		*105*	*56-121*			
Surrogate: Terphenyl-d14	*0.841*		*mg/kg dry*	*1.651*		*51.0*	*40-140*			
Matrix Spike Dup (1030120-MSD1)	**Source: 10G0482-31**			Prepared: 07/21/10 Analyzed: 07/30/10						
2-Methylnaphthalene	3.10	0.124	mg/kg dry	4.119	ND	75.2	42-117	4.24	36	
Acenaphthene	3.22	0.124	mg/kg dry	4.119	ND	78.2	59-117	3.02	24	
Acenaphthylene	3.18	0.124	mg/kg dry	4.119	ND	77.2	41-130	0.328	32	
Anthracene	3.14	0.124	mg/kg dry	4.119	ND	76.2	40-121	4.34	21	
Benz(a)anthracene	3.29	0.124	mg/kg dry	4.119	ND	79.9	30-137	7.28	14	
Benzo(a)pyrene	4.45	0.124	mg/kg dry	4.119	ND	108	20-152	5.21	25	
Benzo(b)fluoranthene	3.93	0.124	mg/kg dry	4.119	ND	95.5	19-173	1.46	29	
Benzo(g,h,i)perylene	4.85	0.124	mg/kg dry	4.119	ND	118	40-139	0.972	19	
Benzo(k)fluoranthene	3.76	0.124	mg/kg dry	4.119	ND	91.2	10-154	9.90	58	
Chrysene	3.29	0.124	mg/kg dry	4.119	ND	79.9	36-125	7.28	21	
Dibenz(a,h)anthracene	5.19	0.124	mg/kg dry	4.119	ND	126	48-139	1.22	24	
Fluoranthene	2.57	0.124	mg/kg dry	4.119	ND	62.5	15-146	6.24	40	
Fluorene	2.10	0.124	mg/kg dry	4.119	ND	51.0	46-134	1.43	29	
Indeno(1,2,3-cd)pyrene	5.80	0.124	mg/kg dry	4.119	ND	141	44-144	0.483	28	
Naphthalene	3.17	0.124	mg/kg dry	4.119	ND	77.0	33-121	2.56	15	
Phenanthrene	3.05	0.124	mg/kg dry	4.119	ND	74.1	37-112	4.28	13	
Pyrene	4.30	0.124	mg/kg dry	4.119	ND	104	10-163	3.10	20	
Surrogate: Nitrobenzene-d5	*1.14*		*mg/kg dry*	*1.648*		*69.4*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.68*		*mg/kg dry*	*1.648*		*102*	*56-121*			
Surrogate: Terphenyl-d14	*0.850*		*mg/kg dry*	*1.648*		*51.6*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030217 - PREP_SVOC_S										
Blank (1030217-BLK1)				Prepared: 07/22/10 Analyzed: 07/28/10						
2-Methylnaphthalene	BDL	0.100	mg/kg wet							
Acenaphthene	BDL	0.100	mg/kg wet							
Acenaphthylene	BDL	0.100	mg/kg wet							
Anthracene	BDL	0.100	mg/kg wet							
Benz(a)anthracene	BDL	0.100	mg/kg wet							
Benzo(a)pyrene	BDL	0.100	mg/kg wet							
Benzo(b)fluoranthene	BDL	0.100	mg/kg wet							
Benzo(g,h,i)perylene	BDL	0.100	mg/kg wet							
Benzo(k)fluoranthene	BDL	0.100	mg/kg wet							
Chrysene	BDL	0.100	mg/kg wet							
Dibenz(a,h)anthracene	BDL	0.100	mg/kg wet							
Fluoranthene	BDL	0.100	mg/kg wet							
Fluorene	BDL	0.100	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BDL	0.100	mg/kg wet							
)hthalene	BDL	0.100	mg/kg wet							
.enanthrene	BDL	0.100	mg/kg wet							
Pyrene	BDL	0.100	mg/kg wet							
Surrogate: Nitrobenzene-d5	*1.34*		*mg/kg wet*	*1.333*		*100*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.30*		*mg/kg wet*	*1.333*		*97.3*	*56-121*			
Surrogate: Terphenyl-d14	*1.75*		*mg/kg wet*	*1.333*		*131*	*40-140*			
LCS (1030217-BS1)				Prepared: 07/22/10 Analyzed: 07/28/10						
2-Methylnaphthalene	2.87	0.100	mg/kg wet	3.333		86.2	24-125			
Acenaphthene	2.90	0.100	mg/kg wet	3.333		86.9	60-110			
Acenaphthylene	2.94	0.100	mg/kg wet	3.333		88.3	45-124			
Anthracene	2.99	0.100	mg/kg wet	3.333		89.6	46-117			
Benz(a)anthracene	3.25	0.100	mg/kg wet	3.333		97.4	43-139			
Benzo(a)pyrene	4.71	0.100	mg/kg wet	3.333		141	40-147			
Benzo(b)fluoranthene	4.75	0.100	mg/kg wet	3.333		142	40-157			
Benzo(g,h,i)perylene	4.68	0.100	mg/kg wet	3.333		140	37-159			
Benzo(k)fluoranthene	3.82	0.100	mg/kg wet	3.333		115	32-123			
Chrysene	3.19	0.100	mg/kg wet	3.333		95.6	38-136			
Dibenz(a,h)anthracene	5.07	0.100	mg/kg wet	3.333		152	20-181			
Fluoranthene	3.12	0.100	mg/kg wet	3.333		93.5	49-118			
Fluorene	3.42	0.100	mg/kg wet	3.333		102	52-129			
Indeno(1,2,3-cd)pyrene	4.42	0.100	mg/kg wet	3.333		133	40-160			
Naphthalene	2.30	0.100	mg/kg wet	3.333		69.1	39-118			
Phenanthrene	3.24	0.100	mg/kg wet	3.333		97.2	46-109			
Pyrene	3.06	0.100	mg/kg wet	3.333		91.9	47-123			
Surrogate: Nitrobenzene-d5	*1.42*		*mg/kg wet*	*1.333*		*106*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.16*		*mg/kg wet*	*1.333*		*87.1*	*56-121*			
Surrogate: Terphenyl-d14	*1.22*		*mg/kg wet*	*1.333*		*91.7*	*40-140*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030217 - PREP_SVOC_S										
LCS Dup (1030217-BSD1)				Prepared: 07/22/10 Analyzed: 07/28/10						
2-Methylnaphthalene	2.73	0.100	mg/kg wet	3.333		82.0	24-125	5.05	20	
Acenaphthene	3.11	0.100	mg/kg wet	3.333		93.3	60-110	7.09	13	
Acenaphthylene	3.54	0.100	mg/kg wet	3.333		106	45-124	18.5	20	
Anthracene	2.79	0.100	mg/kg wet	3.333		83.6	46-117	6.92	20	
Benz(a)anthracene	3.53	0.100	mg/kg wet	3.333		106	43-139	8.36	20	
Benzo(a)pyrene	4.74	0.100	mg/kg wet	3.333		142	40-147	0.627	20	
Benzo(b)fluoranthene	4.98	0.100	mg/kg wet	3.333		149	40-157	4.71	25	
Benzo(g,h,i)perylene	4.64	0.100	mg/kg wet	3.333		139	37-159	0.844	25	
Benzo(k)fluoranthene	3.49	0.100	mg/kg wet	3.333		105	32-123	9.10	40	
Chrysene	3.06	0.100	mg/kg wet	3.333		91.7	38-136	4.20	20	
Dibenz(a,h)anthracene	5.38	0.100	mg/kg wet	3.333		161	20-181	5.93	20	
Fluoranthene	3.11	0.100	mg/kg wet	3.333		93.3	49-118	0.171	20	
Fluorene	3.52	0.100	mg/kg wet	3.333		106	52-129	3.11	20	
Indeno(1,2,3-cd)pyrene	4.73	0.100	mg/kg wet	3.333		142	40-160	6.67	20	
Naphthalene	2.49	0.100	mg/kg wet	3.333		74.6	39-118	7.64	20	
nanthrene	3.11	0.100	mg/kg wet	3.333		93.4	46-109	4.00	20	
rene	3.05	0.100	mg/kg wet	3.333		91.6	47-123	0.283	20	
Surrogate: Nitrobenzene-d5	*1.06*		*mg/kg wet*	*1.333*		*79.5*	*51-126*			
Surrogate: 2-Fluorobiphenyl	*1.44*		*mg/kg wet*	*1.333*		*108*	*56-121*			
Surrogate: Terphenyl-d14	*1.13*		*mg/kg wet*	*1.333*		*84.5*	*40-140*			

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
R	RPD outside of accepted recovery limits.
O-01	This compound is a common laboratory contaminant.
M	Matrix spike and/or matrix spike duplicate recovery outside of acceptance limits.
L	Laboratory control sample recovery outside of acceptance limits high, sample results are below detection limits. Sample data is still acceptable.
D	Data reported from a dilution
B	Analyte is found in the associated blank as well as in the sample.
A-01a	spike is outside of established QC limits.
A-01	Spike is outside of established limits.

Sample preservation was met unless otherwise noted.

APPENDIX L

AUG 13 2010

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10G0757	07/29/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 2nd day of August, 2010.

Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs™
The Environmental Service Company.

Thursday, July 29, 2010

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl Brewery Redevelopment Work Order: 10G0757

Belmont Labs received 9 sample(s) on 7/15/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green
Project Manager

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10G0757-01A	TP-1 Shallow (2')	6/24/2010 12:00:00AM	7/15/2010
10G0757-02A	TP-1 Mid (8')	6/24/2010 12:00:00AM	7/15/2010
10G0757-03A	TP-1 Deep (15')	6/24/2010 12:00:00AM	7/15/2010
10G0757-04A	TP-2 Shallow (2')	6/24/2010 12:00:00AM	7/15/2010
10G0757-05A	TP-2 Mid (8')	6/24/2010 12:00:00AM	7/15/2010
10G0757-06A	TP-2 Btm (15')	6/24/2010 12:00:00AM	7/15/2010
10G0757-07A	TP-3 Shallow (2')	6/24/2010 12:00:00AM	7/15/2010
10G0757-08A	TP-3 Mid (8')	6/24/2010 12:00:00AM	7/15/2010
10G0757-09A	TP-3 Btm (15')	6/24/2010 12:00:00AM	7/15/2010

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-01 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-1 Shallow (2') **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	1030	1.12		mg/kg dry	1	1031127	7/27/2010 7:16:57PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	11.6			% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-02 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-1 Mid (8') **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	414		1.27		mg/kg dry	1	1031127	7/27/2010 7:20:44PM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	16.7				% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-03 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-1 Deep (15') **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	282		0.849		mg/kg dry	1	1031127	7/27/2010 7:24:30PM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	18.6				% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office
Project: Hudepohl Brewery Redevelopment
Lab Order: 10G0757

Lab ID: 10G0757-04
Client Sample ID: TP-2 Shallow (2')
Collection Date: 6/24/2010 12:00:00AM
Matrix: Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	317		0.864		mg/kg dry	1	1031127	7/27/2010 7:28:19PM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	19.5				% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-05 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-2 Mid (8') **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	153	1.06		mg/kg dry	1	1031127	7/27/2010 7:32:05PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	19.5			% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-06 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-2 Btm (15') **Matrix:** Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	**924**		1.01		mg/kg dry	1	1031127	7/27/2010 7:35:49PM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	**18.3**				% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office
Project: Hudepohl Brewery Redevelopment
Lab Order: 10G0757

Lab ID: 10G0757-07
Client Sample ID: TP-3 Shallow (2')
Collection Date: 6/24/2010 12:00:00AM
Matrix: Soil

Analysis	Result		PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb		**SW 6010B**					**Analyst: RJE**	
Lead	2360		0.855		mg/kg dry	1	1031127	7/27/2010 7:39:35PM
PMOIST		**D 2216**					**Analyst: AD**	
Percent Moisture	14.2				% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-08 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-3 Mid (8') **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	38.9	1.25		mg/kg dry	1	1031127	7/27/2010 7:43:22PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	18.5			% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs **Date:** 7/29/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0757
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0757-09 **Collection Date:** 6/24/2010 12:00:00AM
Client Sample ID: TP-3 Btm (15') **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
ICP_Pb	**SW 6010B**					**Analyst: RJE**	
Lead	33.6	1.12		mg/kg dry	1	1031127	7/27/2010 7:47:06PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	14.7			% by Weight	1	1031217	7/28/2010 2:00:00PM

Belmont Labs
The Environmental Service Company.

ANALYTICAL REQUEST CHAIN OF CUSTODY

72.05876.0884

Internal Lab Order Number: IDG075

Purchase Order No. | Quote No. | Client Project: Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No: 513-771-2112 Fax No: 513-782-6908

Date Results Req: | Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of: Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	Total Lead 6010 (HNO3, HCl, H2SO4, Ice, None, Other)	Lab Only
TP-1 Shallow 2'	6/24/10			X	S	1	X	
TP-1 Mid 8'				X	S	1	X	
TP-1 Deep 15'				X	S	1	X	
TP-2 Shallow 2'				X	S	1	X	
TP-2 Mid 8'				X	S	1	X	
TP-2 ~~Mid 8'~~ Btm 15'				X	S	1	X	
TP-3 Shallow 2'				X	S	1	X	
TP-3 Mid 8'				X	S	1	X	
TP-3 Btm 15'	6/24/10			X	S	1	X	
							9	

CHAIN OF CUSTODY (if required)

Relinquished by: William A Norris — Date/Time: 7/14/10 1730 — Received by: Fed Ex # 7988-4857-3622 — Date/Time:

Relinquished by: — Date/Time: — Received at lab by: R Whitaker — Date/Time: 7-15-10 7:35

Method of Shipment: FedEx 7988 4857 3622 — Cooler Temp. 26.6° — Custody Seals: ☒ Yes ☐ No

Sampled by: Travis Powell — Date:

Client Comments:

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B Litho-Form #9786-5/02

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031127 - PREP_ICP_S										
Blank (1031127-BLK1)				Prepared & Analyzed: 07/27/10						
Lead	BDL	1.00	mg/kg wet							
LCS (1031127-BS1)				Prepared & Analyzed: 07/27/10						
Lead	100	1.00	mg/kg wet	100.0		100	80-120			
LCS Dup (1031127-BSD1)				Prepared & Analyzed: 07/27/10						
Lead	99.5	1.00	mg/kg wet	100.0		99.5	80-120	0.501	20	
Duplicate (1031127-DUP1)		Source: 10G1224-01		Prepared & Analyzed: 07/27/10						
Lead	16.9	1.03	mg/kg dry		18.4			8.45	20	
Matrix Spike (1031127-MS1)		Source: 10G1224-01		Prepared & Analyzed: 07/27/10						
Lead	118	1.19	mg/kg dry	118.9	18.4	84.0	75-125			
Matrix Spike Dup (1031127-MSD1)		Source: 10G1224-01		Prepared & Analyzed: 07/27/10						
Lead	732	1.09	mg/kg dry	109.3	18.4	653	75-125	144	20	QM-05
Post Spike (1031127-PS1)		Source: 10G1224-01		Prepared & Analyzed: 07/27/10						
Lead	1.09		mg/L	1.000	0.164	92.6	0-200			

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Sample preservation was met unless otherwise noted.

Laboratory Bulk Asbestos Test Report

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Client: ATC Associates, Inc
Address: 11121 Canal Rd. Cincinnati, Ohio 45241
Project Name: Hudepohl Test Pits
Project Number: / P.O. Number: 72.05876.0884, 72003-01
Date Analyzed: 10/28/10 **Page Number:** 1 of 1

Analytical method: Polarized light microscopy using dispersion staining (EPA/600/R-93/116)

Sample I.D. Number	Laboratory I.D. Number	Sample Color	Type of Asbestos	Percentage of Asbestos	Other Fibers	Percentage of Other Fibers	Type of Material
TP-1 Shallow 2'	10B-14561	Brown	ND	ND	CELL	PRESENT	Soil
TP-1 Mid 8'	10B-14562	Brown	ND	ND	CELL	PRESENT	Soil
TP-1 Deep 15'	10B-14563	Brown	CHRY	PRESENT	CELL	PRESENT	Soil
TP-2 Shallow 2'	10B-14564	Brown	ND	ND	FBGL/CELL	PRESENT	Soil
TP-2 Mid 8'	10B-14565	Brown	CHRY	PRESENT	FBGL/CELL	PRESENT	Soil
TP-2 Btm 15'	10B-14566	Brown	AMOS	PRESENT	FBGL/CELL	PRESENT	Soil
TP-3 Shallow 2'	10B-14567	Brown	CHRY/AMOS	PRESENT	FBGL/CELL	PRESENT	Soil
TP-3 Mid 8'	10B-14568	Brown	ND	ND	CELL	PRESENT	Soil
TP-3 Btm 15'	10B-14569	Brown	ND	ND	CELL	PRESENT	Soil

Abbreviations: ND-None Detected. Asbestos Type: ACTN-Actinolite, AMOS-Amosite, ANTH-Anthophyllite, CHRY-Chrysotile, CROC- Crocidolite, TREM-Tremolite. Other Fibers: CELL-Cellulose, FBGL-Fiberglass/Mineral wool, ANML-Animal, SYNTH-Synthetic, MNRL-Non-Asbestiform Mineral, OTHR-Other. Trace: <0.25%

NOTE: Materials containing heavy binders, small asbestos fibers, or heterogenous asbestos content should not be deemed absent of asbestos, or a non-asbestos containing material based soley on PLM analysis. Such materials include, but are not limited to: floor tiles, plasters, caulking, and joint compounds.

Reported percentage of asbestos is based upon a calibrated visual estimate of area. *Denotes that the asbestos content was verified with point counting. **Denotes that the asbestos content was verified by gravimetric reduction.(EPA/600/R-93/116) Samples that contain discreetly identifiable layers will be analyzed and reported separately, if any layer is found to contain asbestos. When no asbestos is detected in any layer of a sample, or separation of layers is impossible, the sample will be reported as a composite sample. All samples will be held for 60 days before disposal, unless otherwise requested.

This report relates only to items tested and makes no statement as to the location the samples were collected from, or the contents of surrounding materials. This report shall not be reproduced except in full, without written approval of this lab. The NVLAP logo is not a claim of claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date Received:	10/19/2010
Turnaround Time:	Normal
Report Issue Date:	10/28/2010
Sample Set Number:	72.90772.5682

NVLAP® LAB CODE: 200471-0

Analyst Signature:
James R Jones, Microscopist

Unsigned reports have not yet been proofread, and should not be considered complete.

ATC Associates, Inc. 11121 Canal Road Cincinnati, OH 45241 Tel: 513.771.2112 Fax: 513.782.6908

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

Sample Submittal Form for Analytical Services

11121 Canal Road
Cincinnati, OH 45241
Tel: 513.771.2112
Fax: 513.782.6908

Client Information

Company Name: ATC Associates
Report Results to: Bill Norris
Fax Number: 513-782-6908
Phone Number: 513-771-2112
E-mail Address: Norris72@atcassociates.com
Address: 11121 Canal Rd, Cincinnati OH 45241

Project Name: Hudepohl Test Pits
Project Number: 72.05876.0884, 72003-01
P.O. Number:
Billing Address: Same

Turnaround Time (Circle One)

Normal	Rush	Emergency Rush
3 to 5 days	24 to 48 hours	less than 24 hours

Type of Analysis Requested (Circle One)

Bulk Asbestos (PLM) | Air Asbestos (NIOSH 7400) | Lead Analysis | Biological | TEM

Sample Log

Sample Number	Laboratory Number	Sample Number	Laboratory Number
TP-1 Shallow 2'	10B-14561		
TP-1 Mid 8'			
TP-1 Deep 15'			
TP-2 Shallow 2'			
TP-2 Mid 8'			
TP-2 Btm 15'			
TP-3 Shallow 2'			
TP-3 Mid 8'			
TP-3 Btm 15'	10B-14569		

Special Instructions:

Chain of Custody

Relinquished By:	Date	Time	Received By:
William G. Norris	10-18-10	10:00	[signature]
[signature]	10-19-10	9:30	Storage

APPENDIX M

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10G0562	08/02/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 17th day of August, 2010.

Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Monday, August 2, 2010

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl Brewery Redevelopment Work Order: 10G0562

Belmont Labs received 7 sample(s) on 7/13/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green
Project Manager

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10G0562-01A	MW-1	7/12/2010 10:55:00AM	7/13/2010
10G0562-01B	MW-1	7/12/2010 10:55:00AM	7/13/2010
10G0562-01C	MW-1	7/12/2010 10:55:00AM	7/13/2010
10G0562-02A	MW-2	7/12/2010 11:01:00AM	7/13/2010
10G0562-02B	MW-2	7/12/2010 11:01:00AM	7/13/2010
10G0562-02C	MW-2	7/12/2010 11:01:00AM	7/13/2010
10G0562-03A	MW-3	7/12/2010 11:35:00AM	7/13/2010
10G0562-03B	MW-3	7/12/2010 11:35:00AM	7/13/2010
10G0562-03C	MW-3	7/12/2010 11:35:00AM	7/13/2010
10G0562-04A	MW-4	7/12/2010 11:50:00AM	7/13/2010
10G0562-04B	MW-4	7/12/2010 11:50:00AM	7/13/2010
10G0562-04C	MW-4	7/12/2010 11:50:00AM	7/13/2010
10G0562-05A	D-7	7/12/2010 12:00:00AM	7/13/2010
10G0562-05B	D-7	7/12/2010 12:00:00AM	7/13/2010
10G0562-05C	D-7	7/12/2010 12:00:00AM	7/13/2010
10G0562-05D	D-7	7/12/2010 12:00:00AM	7/13/2010
10G0562-06A	FB-2	7/12/2010 11:30:00AM	7/13/2010
10G0562-06B	FB-2	7/12/2010 11:30:00AM	7/13/2010
10G0562-06C	FB-2	7/12/2010 11:30:00AM	7/13/2010
10G0562-06D	FB-2	7/12/2010 11:30:00AM	7/13/2010
10G0562-07A	TB-4	7/12/2010 12:00:00AM	7/13/2010
10G0562-07B	TB-4	7/12/2010 12:00:00AM	7/13/2010

A brief and minimal temperature exceedence occurred. It is our professional opinion that this slight exceedence had no effect on the analytical values and all data is valid.

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-01 **Collection Date:** 7/12/2010 10:55:00AM
Client Sample ID: MW-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Chloroform	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Chloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 5:07:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 5:07:00PM
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-01 **Collection Date:** 7/12/2010 10:55:00AM
Client Sample ID: MW-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Trichloroethene	**40.6**	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 5:07:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 5:07:00PM
Surrogate: 4-Bromofluorobenzene	*131 %*			*41-140*		*1031134*	7/25/2010 5:07:00PM
Surrogate: Dibromofluoromethane	*113 %*			*34-158*		*1031134*	7/25/2010 5:07:00PM
Surrogate: Toluene-d8	*139 %*			*47-147*		*1031134*	7/25/2010 5:07:00PM
Surrogate: 1,2-Dichloroethane-d4	*114 %*			*29-163*		*1031134*	7/25/2010 5:07:00PM
PAH_FULL_8270						**Analyst: mbg**	
2-Methylnaphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Acenaphthene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Anthracene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1030002	7/29/2010 6:17:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1030002	7/29/2010 6:17:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1030002	7/29/2010 6:17:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1030002	7/29/2010 6:17:00PM
Chrysene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1030002	7/29/2010 6:17:00PM
Fluoranthene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Fluorene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1030002	7/29/2010 6:17:00PM
Naphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Phenanthrene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Pyrene	BDL	10.0		ug/L	1	1030002	7/29/2010 6:17:00PM
Surrogate: Nitrobenzene-d5	*73.4 %*			*50-125*		*1030002*	7/29/2010 6:17:00PM
Surrogate: 2-Fluorobiphenyl	*72.5 %*			*50-120*		*1030002*	7/29/2010 6:17:00PM
Surrogate: Terphenyl-d14	*29.4 %*		*S-04*	*30-150*		*1030002*	7/29/2010 6:17:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-02 **Collection Date:** 7/12/2010 11:01:00AM
Client Sample ID: MW-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Chloroform	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Chloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 5:45:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 5:45:00PM
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-02 **Collection Date:** 7/12/2010 11:01:00AM
Client Sample ID: MW-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Trichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 5:45:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 5:45:00PM
Surrogate: 4-Bromofluorobenzene	*131 %*			*41-140*		*1031134*	7/25/2010 5:45:00PM
Surrogate: Dibromofluoromethane	*114 %*			*34-158*		*1031134*	7/25/2010 5:45:00PM
Surrogate: Toluene-d8	*140 %*			*47-147*		*1031134*	7/25/2010 5:45:00PM
Surrogate: 1,2-Dichloroethane-d4	*114 %*			*29-163*		*1031134*	7/25/2010 5:45:00PM
PAH_FULL_8270						**Analyst: mbg**	
2-Methylnaphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Acenaphthene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Anthracene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1030002	7/29/2010 7:03:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1030002	7/29/2010 7:03:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1030002	7/29/2010 7:03:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1030002	7/29/2010 7:03:00PM
Chrysene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1030002	7/29/2010 7:03:00PM
Fluoranthene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Fluorene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1030002	7/29/2010 7:03:00PM
Naphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Phenanthrene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Pyrene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:03:00PM
Surrogate: Nitrobenzene-d5	*78.8 %*			*50-125*		*1030002*	7/29/2010 7:03:00PM
Surrogate: 2-Fluorobiphenyl	*77.3 %*			*50-120*		*1030002*	7/29/2010 7:03:00PM
Surrogate: Terphenyl-d14	*32.8 %*			*30-150*		*1030002*	7/29/2010 7:03:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-03 **Collection Date:** 7/12/2010 11:35:00AM
Client Sample ID: MW-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Chloroform	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Chloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 8:16:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 8:16:00PM
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM

Lab ID: 10G0562-03 **Collection Date:** 7/12/2010 11:35:00AM
Client Sample ID: MW-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Trichloroethene	**19.7**	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 8:16:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 8:16:00PM
Surrogate: 4-Bromofluorobenzene	*128 %*			*41-140*		*1031134*	7/25/2010 8:16:00PM
Surrogate: Dibromofluoromethane	*115 %*			*34-158*		*1031134*	7/25/2010 8:16:00PM
Surrogate: Toluene-d8	*125 %*			*47-147*		*1031134*	7/25/2010 8:16:00PM
Surrogate: 1,2-Dichloroethane-d4	*114 %*			*29-163*		*1031134*	7/25/2010 8:16:00PM
PAH_FULL_8270						**Analyst: mbg**	
2-Methylnaphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Acenaphthene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Anthracene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1030002	7/29/2010 7:49:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1030002	7/29/2010 7:49:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1030002	7/29/2010 7:49:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1030002	7/29/2010 7:49:00PM
Chrysene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1030002	7/29/2010 7:49:00PM
Fluoranthene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Fluorene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1030002	7/29/2010 7:49:00PM
Naphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Phenanthrene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Pyrene	BDL	10.0		ug/L	1	1030002	7/29/2010 7:49:00PM
Surrogate: Nitrobenzene-d5	*76.6 %*			*50-125*		*1030002*	7/29/2010 7:49:00PM
Surrogate: 2-Fluorobiphenyl	*75.2 %*			*50-120*		*1030002*	7/29/2010 7:49:00PM
Surrogate: Terphenyl-d14	*39.1 %*			*30-150*		*1030002*	7/29/2010 7:49:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-04 **Collection Date:** 7/12/2010 11:50:00AM
Client Sample ID: MW-4 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Chloroform	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Chloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 8:54:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 8:54:00PM
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM

Lab ID: 10G0562-04 **Collection Date:** 7/12/2010 11:50:00AM
Client Sample ID: MW-4 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Trichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 8:54:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 8:54:00PM
Surrogate: 4-Bromofluorobenzene	*131 %*			*41-140*		*1031134*	7/25/2010 8:54:00PM
Surrogate: Dibromofluoromethane	*115 %*			*34-158*		*1031134*	7/25/2010 8:54:00PM
Surrogate: Toluene-d8	*141 %*			*47-147*		*1031134*	7/25/2010 8:54:00PM
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*29-163*		*1031134*	7/25/2010 8:54:00PM
PAH_FULL_8270						**Analyst: mbg**	
2-Methylnaphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Acenaphthene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Anthracene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1030002	7/29/2010 8:34:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1030002	7/29/2010 8:34:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1030002	7/29/2010 8:34:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1030002	7/29/2010 8:34:00PM
Chrysene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1030002	7/29/2010 8:34:00PM
Fluoranthene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Fluorene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1030002	7/29/2010 8:34:00PM
Naphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Phenanthrene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Pyrene	BDL	10.0		ug/L	1	1030002	7/29/2010 8:34:00PM
Surrogate: Nitrobenzene-d5	*77.0 %*			*50-125*		*1030002*	7/29/2010 8:34:00PM
Surrogate: 2-Fluorobiphenyl	*71.6 %*			*50-120*		*1030002*	7/29/2010 8:34:00PM
Surrogate: Terphenyl-d14	*36.4 %*			*30-150*		*1030002*	7/29/2010 8:34:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-05 **Collection Date:** 7/12/2010 12:00:00AM
Client Sample ID: D-7 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Chloroform	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Chloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 3:37:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 3:37:00PM
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM

Lab ID: 10G0562-05 **Collection Date:** 7/12/2010 12:00:00AM
Client Sample ID: D-7 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Trichloroethene	**21.3**	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 3:37:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 3:37:00PM
Surrogate: 4-Bromofluorobenzene	*128 %*			*41-140*		*1031134*	7/25/2010 3:37:00PM
Surrogate: Dibromofluoromethane	*111 %*			*34-158*		*1031134*	7/25/2010 3:37:00PM
Surrogate: Toluene-d8	*125 %*			*47-147*		*1031134*	7/25/2010 3:37:00PM
Surrogate: 1,2-Dichloroethane-d4	*110 %*			*29-163*		*1031134*	7/25/2010 3:37:00PM
PAH_FULL_8270						**Analyst: mbg**	
2-Methylnaphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Acenaphthene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Anthracene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1030002	7/29/2010 9:19:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1030002	7/29/2010 9:19:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1030002	7/29/2010 9:19:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1030002	7/29/2010 9:19:00PM
Chrysene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1030002	7/29/2010 9:19:00PM
Fluoranthene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Fluorene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1030002	7/29/2010 9:19:00PM
Naphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Phenanthrene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Pyrene	BDL	10.0		ug/L	1	1030002	7/29/2010 9:19:00PM
Surrogate: Nitrobenzene-d5	*76.2 %*			*50-125*		*1030002*	7/29/2010 9:19:00PM
Surrogate: 2-Fluorobiphenyl	*66.8 %*			*50-120*		*1030002*	7/29/2010 9:19:00PM
Surrogate: Terphenyl-d14	*46.3 %*			*30-150*		*1030002*	7/29/2010 9:19:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-06 **Collection Date:** 7/12/2010 11:30:00AM
Client Sample ID: FB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Chloroform	**27.7**	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Chloromethane	**6.19**	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 7:01:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 7:01:00PM
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-06 **Collection Date:** 7/12/2010 11:30:00AM
Client Sample ID: FB-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Trichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 7:01:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 7:01:00PM
Surrogate: 4-Bromofluorobenzene	*128 %*			*41-140*		*1031134*	7/25/2010 7:01:00PM
Surrogate: Dibromofluoromethane	*116 %*			*34-158*		*1031134*	7/25/2010 7:01:00PM
Surrogate: Toluene-d8	*138 %*			*47-147*		*1031134*	7/25/2010 7:01:00PM
Surrogate: 1,2-Dichloroethane-d4	*112 %*			*29-163*		*1031134*	7/25/2010 7:01:00PM
PAH_FULL_8270						**Analyst: mbg**	
2-Methylnaphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Acenaphthene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Anthracene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1030002	7/29/2010 10:04:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1030002	7/29/2010 10:04:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1030002	7/29/2010 10:04:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1030002	7/29/2010 10:04:00PM
Chrysene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Dibenz(a,h)anthracene	BDL	0.200		ug/L	1	1030002	7/29/2010 10:04:00PM
Fluoranthene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Fluorene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1030002	7/29/2010 10:04:00PM
Naphthalene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Phenanthrene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Pyrene	BDL	10.0		ug/L	1	1030002	7/29/2010 10:04:00PM
Surrogate: Nitrobenzene-d5	*74.1 %*			*50-125*		*1030002*	7/29/2010 10:04:00PM
Surrogate: 2-Fluorobiphenyl	*70.7 %*			*50-120*		*1030002*	7/29/2010 10:04:00PM
Surrogate: Terphenyl-d14	*77.2 %*			*30-150*		*1030002*	7/29/2010 10:04:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-07 **Collection Date:** 7/12/2010 12:00:00AM
Client Sample ID: TB-4 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260_TB	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
2-Butanone	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
2-Hexanone	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Acetone	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Acetonitrile	BDL	40.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Acrolein	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Allyl chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Benzene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Bromobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Bromoform	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Bromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Chloroethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Chloroform	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Chloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Dibromomethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Iodomethane	BDL	10.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1031134	7/25/2010 4:29:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1031134	7/25/2010 4:29:00PM
n-Butylbenzene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM

Belmont Labs **Date:** 8/2/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10G0562
Project: Hudepohl Brewery Redevelopment

Lab ID: 10G0562-07 **Collection Date:** 7/12/2010 12:00:00AM
Client Sample ID: TB-4 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
n-Hexane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
o-Xylene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Styrene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Toluene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Trichloroethene	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1031134	7/25/2010 4:29:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1031134	7/25/2010 4:29:00PM
Surrogate: 4-Bromofluorobenzene	*128 %*			*41-140*		*1031134*	7/25/2010 4:29:00PM
Surrogate: Dibromofluoromethane	*112 %*			*34-158*		*1031134*	7/25/2010 4:29:00PM
Surrogate: Toluene-d8	*120 %*			*47-147*		*1031134*	7/25/2010 4:29:00PM
Surrogate: 1,2-Dichloroethane-d4	*110 %*			*29-163*		*1031134*	7/25/2010 4:29:00PM

2nd Cooler Chain of Custody COPY

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST
CHAIN OF CUSTODY

Internal Lab Order Number 1DG0560

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: STD TAT
Rush Charges Authorized? ☐ Yes ☐ No
Fax Results ☐
Special Instructions:
Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 (HNO3, HCl, H2SO4, Ice, None, Other)	PAH 8270 (HNO3, HCl, H2SO4, Ice, None, Other)	PCB 8082 (HNO3, HCl, H2SO4, Ice, None, Other)	TPH 8015 C6-C12 (HNO3, HCl, H2SO4, Ice, None, Other)	TPH C10-C20 TPH C20-C34 8015 (HNO3, HCl, H2SO4, Ice, None, Other)	RCRA Metals 6010/7470 (HNO3, HCl, H2SO4, Ice, None, Other)			Lab Only
MW-1	7/12/10	1055		X	GW	4	X	X							
MW-2	↓	1101		X	↓	4	X	X							
MW-3	↓	1135		X	↓	4	X	X							
MW-4	↓	1150		X	↓	4	X	X							
D-7	↓			X	GW	5	X	X							
FB-2	↓	1130		X	W	5	X	X							
TB-4	—	—		—	W	2	X								

28

CHAIN OF CUSTODY (if required)
Relinquished by: Matthew [illegible] (ATC) Date/Time 7/12/10 - 18:30
Received by: FedEx 798841431960 / 798841432029 Date/Time 7/12/10 - 18:30
Relinquished by: FedEx Date/Time
Received at lab by: [illegible] Date/Time 7-13-10 9:30
Method of Shipment: FedEx Overnight 7988 4143 2029
Cooler Temp. 3.9°
Custody Seals ☒ Yes ☐ No

Sampled by: M. Nemecek, Z. Hamilton Date 7/12/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B Litho-Form #9786-5/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
Blank (1031134-BLK1)				Prepared & Analyzed: 07/25/10						
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2-Butanone	BDL	20.0	ug/L							
2-Butanone	BDL	20.0	ug/L							
2-Chlorotoluene	BDL	5.00	ug/L							
2-Chlorotoluene	BDL	5.00	ug/L							
2-Hexanone	BDL	20.0	ug/L							
2-Hexanone	BDL	20.0	ug/L							
4-Chlorotoluene	BDL	5.00	ug/L							
4-Chlorotoluene	BDL	5.00	ug/L							
4-Methyl-2-pentanone	BDL	20.0	ug/L							
4-Methyl-2-pentanone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
Allyl chloride	BDL	5.00	ug/L							
Allyl chloride	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
Blank (1031134-BLK1)				Prepared & Analyzed: 07/25/10						
Benzene	BDL	5.00	ug/L							
Benzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
cis-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
m,p-Xylene	BDL	10.0	ug/L							
m,p-Xylene	BDL	10.0	ug/L							
n-Butylbenzene	BDL	5.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
Blank (1031134-BLK1)				Prepared & Analyzed: 07/25/10						
n-Hexane	BDL	5.00	ug/L							
n-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*65.1*		*ug/L*	*50.00*		*130*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*65.1*		*ug/L*	*50.00*		*130*	*41-140*			
Surrogate: Dibromofluoromethane	*54.1*		*ug/L*	*50.00*		*108*	*34-158*			
Surrogate: Dibromofluoromethane	*54.1*		*ug/L*	*50.00*		*108*	*34-158*			
Surrogate: Toluene-d8	*68.6*		*ug/L*	*50.00*		*137*	*47-147*			
Surrogate: Toluene-d8	*68.6*		*ug/L*	*50.00*		*137*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*52.5*		*ug/L*	*50.00*		*105*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*52.5*		*ug/L*	*50.00*		*105*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
LCS (1031134-BS1)				Prepared & Analyzed: 07/25/10						
1,1,1,2-Tetrachloroethane	23.1	5.00	ug/L	20.00		116	78-128			
1,1,1,2-Tetrachloroethane	23.1	5.00	ug/L	20.00		116	78-128			
1,1,1-Trichloroethane	20.2	5.00	ug/L	20.00		101	70-135			
1,1,1-Trichloroethane	20.2	5.00	ug/L	20.00		101	70-135			
1,1,2,2-Tetrachloroethane	25.5	5.00	ug/L	20.00		127	68-135			
1,1,2,2-Tetrachloroethane	25.5	5.00	ug/L	20.00		127	68-135			
1,1,2-Trichloroethane	24.4	5.00	ug/L	20.00		122	74-131			
1,1,2-Trichloroethane	24.4	5.00	ug/L	20.00		122	74-131			
1,1-Dichloroethane	25.2	5.00	ug/L	20.00		126	72-134			
1,1-Dichloroethane	25.2	5.00	ug/L	20.00		126	72-134			
1,1-Dichloroethene	20.3	5.00	ug/L	20.00		102	62-143			
1,1-Dichloroethene	20.3	5.00	ug/L	20.00		102	62-143			
1,1-Dichloropropene	25.4	5.00	ug/L	20.00		127	82-128			
1,1-Dichloropropene	25.4	5.00	ug/L	20.00		127	82-128			
1,2-Dibromoethane	19.0	5.00	ug/L	20.00		94.8	67-132			
1,2-Dibromoethane	19.0	5.00	ug/L	20.00		94.8	67-132			
1,2-Dichloroethane	26.4	5.00	ug/L	20.00		132	72-131			L
1,2-Dichloroethane	26.4	5.00	ug/L	20.00		132	72-131			L
1,2-Dichloropropane	29.5	5.00	ug/L	20.00		148	75-128			L
1,2-Dichloropropane	29.5	5.00	ug/L	20.00		148	75-128			L
1,3-Dichloropropane	26.4	5.00	ug/L	20.00		132	73-130			L
1,3-Dichloropropane	26.4	5.00	ug/L	20.00		132	73-130			L
2,2-Dichloropropane	29.6	5.00	ug/L	20.00		148	45-173			
2,2-Dichloropropane	29.6	5.00	ug/L	20.00		148	45-173			
2-Butanone	88.7	20.0	ug/L	80.00		111	42-140			
2-Butanone	88.7	20.0	ug/L	80.00		111	42-140			
2-Chlorotoluene	24.3	5.00	ug/L	20.00		121	76-126			
2-Chlorotoluene	24.3	5.00	ug/L	20.00		121	76-126			
2-Hexanone	104	20.0	ug/L	80.00		130	18-178			
2-Hexanone	104	20.0	ug/L	80.00		130	18-178			
4-Chlorotoluene	23.4	5.00	ug/L	20.00		117	77-132			
4-Chlorotoluene	23.4	5.00	ug/L	20.00		117	77-132			
4-Methyl-2-pentanone	85.9	20.0	ug/L	80.00		107	42-160			
4-Methyl-2-pentanone	85.9	20.0	ug/L	80.00		107	42-160			
Acetone	121	20.0	ug/L	80.00		152	30-173			
Acetone	121	20.0	ug/L	80.00		152	30-173			
Acetonitrile	23.5	40.0	ug/L	20.00		117	58-150			
Acetonitrile	23.5	40.0	ug/L	20.00		117	58-150			
Acrylonitrile	24.8	20.0	ug/L	20.00		124	64-153			
Acrylonitrile	24.8	20.0	ug/L	20.00		124	64-153			
Allyl chloride	27.5	5.00	ug/L	20.00		138	67-149			
Allyl chloride	27.5	5.00	ug/L	20.00		138	67-149			
Benzene	23.9	5.00	ug/L	20.00		120	77-126			
Benzene	23.9	5.00	ug/L	20.00		120	77-126			
Bromobenzene	23.6	5.00	ug/L	20.00		118	72-131			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
LCS (1031134-BS1)				Prepared & Analyzed: 07/25/10						
Bromobenzene	23.6	5.00	ug/L	20.00		118	72-131			
Bromochloromethane	18.0	5.00	ug/L	20.00		89.8	71-135			
Bromochloromethane	18.0	5.00	ug/L	20.00		89.8	71-135			
Bromodichloromethane	24.5	5.00	ug/L	20.00		123	78-129			
Bromodichloromethane	24.5	5.00	ug/L	20.00		123	78-129			
Bromoform	24.4	5.00	ug/L	20.00		122	69-135			
Bromoform	24.4	5.00	ug/L	20.00		122	69-135			
Bromomethane	22.8	5.00	ug/L	20.00		114	14-193			
Bromomethane	22.8	5.00	ug/L	20.00		114	14-193			
Carbon Disulfide	13.1	20.0	ug/L	20.00		65.4	54-150			
Carbon Disulfide	13.1	20.0	ug/L	20.00		65.4	54-150			
Carbon Tetrachloride	18.2	5.00	ug/L	20.00		91.0	67-138			
Carbon Tetrachloride	18.2	5.00	ug/L	20.00		91.0	67-138			
Chlorobenzene	19.8	5.00	ug/L	20.00		98.8	77-125			
Chlorobenzene	19.8	5.00	ug/L	20.00		98.8	77-125			
Chloroethane	34.4	5.00	ug/L	20.00		172	27-170			L
Chloroethane	34.4	5.00	ug/L	20.00		172	27-170			L
Chloroform	20.9	5.00	ug/L	20.00		104	73-136			
Chloroform	20.9	5.00	ug/L	20.00		104	73-136			
Chloromethane	16.2	5.00	ug/L	20.00		81.2	44-145			
Chloromethane	16.2	5.00	ug/L	20.00		81.2	44-145			
cis-1,2-Dichloroethene	23.7	5.00	ug/L	20.00		119	77-137			
cis-1,2-Dichloroethene	23.7	5.00	ug/L	20.00		119	77-137			
cis-1,3-Dichloropropene	28.7	5.00	ug/L	20.00		144	70-133			L
cis-1,3-Dichloropropene	28.7	5.00	ug/L	20.00		144	70-133			L
Dibromochloromethane	23.1	5.00	ug/L	20.00		116	68-131			
Dibromochloromethane	23.1	5.00	ug/L	20.00		116	68-131			
Dibromomethane	21.0	5.00	ug/L	20.00		105	74-129			
Dibromomethane	21.0	5.00	ug/L	20.00		105	74-129			
Dichlorodifluoromethane	24.1	5.00	ug/L	20.00		120	41-145			
Dichlorodifluoromethane	24.1	5.00	ug/L	20.00		120	41-145			
Ethylbenzene	22.4	5.00	ug/L	20.00		112	79-126			
Ethylbenzene	22.4	5.00	ug/L	20.00		112	79-126			
Iodomethane	13.1	10.0	ug/L	20.00		65.6	52-150			
Iodomethane	13.1	10.0	ug/L	20.00		65.6	52-150			
Methylene Chloride	28.7	5.00	ug/L	20.00		144	43-162			
Methylene Chloride	28.7	5.00	ug/L	20.00		144	43-162			
Methyl tert-Butyl Ether	23.6	10.0	ug/L	20.00		118	63-134			
Methyl tert-Butyl Ether	23.6	10.0	ug/L	20.00		118	63-134			
m,p-Xylene	46.8	10.0	ug/L	40.00		117	82-132			
m,p-Xylene	46.8	10.0	ug/L	40.00		117	82-132			
n-Butylbenzene	21.2	5.00	ug/L	20.00		106	80-135			
n-Hexane	7.73	5.00	ug/L	20.00		38.6	10-216			
n-Hexane	7.73	5.00	ug/L	20.00		38.6	10-216			
o-Xylene	19.7	5.00	ug/L	20.00		98.4	81-128			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
LCS (1031134-BS1)				Prepared & Analyzed: 07/25/10						
o-Xylene	19.7	5.00	ug/L	20.00		98.4	81-128			
Styrene	21.4	5.00	ug/L	20.00		107	81-129			
Styrene	21.4	5.00	ug/L	20.00		107	81-129			
Tetrachloroethene	16.6	5.00	ug/L	20.00		82.8	43-152			
Tetrachloroethene	16.6	5.00	ug/L	20.00		82.8	43-152			
Toluene	22.2	5.00	ug/L	20.00		111	79-128			
Toluene	22.2	5.00	ug/L	20.00		111	79-128			
trans-1,2-Dichloroethene	15.9	5.00	ug/L	20.00		79.4	60-144			
trans-1,2-Dichloroethene	15.9	5.00	ug/L	20.00		79.4	60-144			
trans-1,3-Dichloropropene	30.0	5.00	ug/L	20.00		150	67-138			L
trans-1,3-Dichloropropene	30.0	5.00	ug/L	20.00		150	67-138			L
Trichloroethene	19.5	5.00	ug/L	20.00		97.6	74-132			
Trichloroethene	19.5	5.00	ug/L	20.00		97.6	74-132			
Trichlorofluoromethane	19.2	5.00	ug/L	20.00		95.8	48-170			
Trichlorofluoromethane	19.2	5.00	ug/L	20.00		95.8	48-170			
Vinyl Chloride	21.1	1.00	ug/L	20.00		106	60-143			
Vinyl Chloride	21.1	1.00	ug/L	20.00		106	60-143			
Vinyl acetate	20.7	10.0	ug/L	20.00		104	16-196			
Vinyl acetate	20.7	10.0	ug/L	20.00		104	16-196			
Surrogate: 4-Bromofluorobenzene	*66.7*		*ug/L*	*50.00*		*133*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*66.7*		*ug/L*	*50.00*		*133*	*41-140*			
Surrogate: Dibromofluoromethane	*53.2*		*ug/L*	*50.00*		*106*	*34-158*			
Surrogate: Dibromofluoromethane	*53.2*		*ug/L*	*50.00*		*106*	*34-158*			
Surrogate: Toluene-d8	*68.5*		*ug/L*	*50.00*		*137*	*47-147*			
Surrogate: Toluene-d8	*68.5*		*ug/L*	*50.00*		*137*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*51.8*		*ug/L*	*50.00*		*104*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*51.8*		*ug/L*	*50.00*		*104*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
LCS Dup (1031134-BSD1)				Prepared & Analyzed: 07/25/10						
1,1,1,2-Tetrachloroethane	23.7	5.00	ug/L	20.00		118	78-128	2.44	16	
1,1,1,2-Tetrachloroethane	23.7	5.00	ug/L	20.00		118	78-128	2.44	16	
1,1,1-Trichloroethane	20.8	5.00	ug/L	20.00		104	70-135	2.68	20	
1,1,1-Trichloroethane	20.8	5.00	ug/L	20.00		104	70-135	2.68	20	
1,1,2,2-Tetrachloroethane	25.1	5.00	ug/L	20.00		125	68-135	1.62	19	
1,1,2,2-Tetrachloroethane	25.1	5.00	ug/L	20.00		125	68-135	1.62	19	
1,1,2-Trichloroethane	24.7	5.00	ug/L	20.00		123	74-131	1.02	16	
1,1,2-Trichloroethane	24.7	5.00	ug/L	20.00		123	74-131	1.02	16	
1,1-Dichloroethane	25.9	5.00	ug/L	20.00		130	72-134	2.62	19	
1,1-Dichloroethane	25.9	5.00	ug/L	20.00		130	72-134	2.62	19	
1,1-Dichloroethene	21.0	5.00	ug/L	20.00		105	62-143	3.29	20	
1,1-Dichloroethene	21.0	5.00	ug/L	20.00		105	62-143	3.29	20	
1,1-Dichloropropene	26.2	5.00	ug/L	20.00		131	82-128	2.71	18	L
1,1-Dichloropropene	26.2	5.00	ug/L	20.00		131	82-128	2.71	18	L
1,2-Dibromoethane	19.3	5.00	ug/L	20.00		96.3	67-132	1.57	13	
1,2-Dibromoethane	19.3	5.00	ug/L	20.00		96.3	67-132	1.57	13	
1,2-Dichloroethane	26.6	5.00	ug/L	20.00		133	72-131	0.528	16	L
1,2-Dichloroethane	26.6	5.00	ug/L	20.00		133	72-131	0.528	16	L
1,2-Dichloropropane	30.1	5.00	ug/L	20.00		151	75-128	2.01	19	L
1,2-Dichloropropane	30.1	5.00	ug/L	20.00		151	75-128	2.01	19	L
1,3-Dichloropropane	26.7	5.00	ug/L	20.00		133	73-130	1.02	13	L
1,3-Dichloropropane	26.7	5.00	ug/L	20.00		133	73-130	1.02	13	L
2,2-Dichloropropane	29.9	5.00	ug/L	20.00		149	45-173	0.942	25	
2,2-Dichloropropane	29.9	5.00	ug/L	20.00		149	45-173	0.942	25	
2-Butanone	88.1	20.0	ug/L	80.00		110	42-140	0.656	18	
2-Butanone	88.1	20.0	ug/L	80.00		110	42-140	0.656	18	
2-Chlorotoluene	24.6	5.00	ug/L	20.00		123	76-126	1.39	20	
2-Chlorotoluene	24.6	5.00	ug/L	20.00		123	76-126	1.39	20	
2-Hexanone	103	20.0	ug/L	80.00		129	18-178	1.04	17	
2-Hexanone	103	20.0	ug/L	80.00		129	18-178	1.04	17	
4-Chlorotoluene	23.9	5.00	ug/L	20.00		120	77-132	1.94	22	
4-Chlorotoluene	23.9	5.00	ug/L	20.00		120	77-132	1.94	22	
4-Methyl-2-pentanone	84.4	20.0	ug/L	80.00		106	42-160	1.81	67	
4-Methyl-2-pentanone	84.4	20.0	ug/L	80.00		106	42-160	1.81	67	
Acetone	118	20.0	ug/L	80.00		147	30-173	2.71	24	
Acetone	118	20.0	ug/L	80.00		147	30-173	2.71	24	
Acetonitrile	23.6	40.0	ug/L	20.00		118	58-150	0.383	25	
Acetonitrile	23.6	40.0	ug/L	20.00		118	58-150	0.383	25	
Acrylonitrile	24.5	20.0	ug/L	20.00		123	64-153	1.01	20	
Acrylonitrile	24.5	20.0	ug/L	20.00		123	64-153	1.01	20	
Allyl chloride	28.1	5.00	ug/L	20.00		140	67-149	2.01	16	
Allyl chloride	28.1	5.00	ug/L	20.00		140	67-149	2.01	16	
Benzene	24.6	5.00	ug/L	20.00		123	77-126	2.84	19	
Benzene	24.6	5.00	ug/L	20.00		123	77-126	2.84	19	
Bromobenzene	23.6	5.00	ug/L	20.00		118	72-131	0.00	20	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
LCS Dup (1031134-BSD1)				Prepared & Analyzed: 07/25/10						
Bromobenzene	23.6	5.00	ug/L	20.00		118	72-131	0.00	20	
Bromochloromethane	18.1	5.00	ug/L	20.00		90.4	71-135	0.666	16	
Bromochloromethane	18.1	5.00	ug/L	20.00		90.4	71-135	0.666	16	
Bromodichloromethane	24.9	5.00	ug/L	20.00		124	78-129	1.34	17	
Bromodichloromethane	24.9	5.00	ug/L	20.00		124	78-129	1.34	17	
Bromoform	24.4	5.00	ug/L	20.00		122	69-135	0.00	18	
Bromoform	24.4	5.00	ug/L	20.00		122	69-135	0.00	18	
Bromomethane	23.6	5.00	ug/L	20.00		118	14-193	3.45	28	
Bromomethane	23.6	5.00	ug/L	20.00		118	14-193	3.45	28	
Carbon Disulfide	13.5	20.0	ug/L	20.00		67.5	54-150	3.08	19	
Carbon Disulfide	13.5	20.0	ug/L	20.00		67.5	54-150	3.08	19	
Carbon Tetrachloride	18.6	5.00	ug/L	20.00		93.0	67-138	2.17	21	
Carbon Tetrachloride	18.6	5.00	ug/L	20.00		93.0	67-138	2.17	21	
Chlorobenzene	20.4	5.00	ug/L	20.00		102	77-125	3.24	19	
Chlorobenzene	20.4	5.00	ug/L	20.00		102	77-125	3.24	19	
Chloroethane	36.3	5.00	ug/L	20.00		182	27-170	5.26	64	L
Chloroethane	36.3	5.00	ug/L	20.00		182	27-170	5.26	64	L
Chloroform	21.4	5.00	ug/L	20.00		107	73-136	2.65	19	
Chloroform	21.4	5.00	ug/L	20.00		107	73-136	2.65	19	
Chloromethane	15.8	5.00	ug/L	20.00		79.2	44-145	2.62	26	
Chloromethane	15.8	5.00	ug/L	20.00		79.2	44-145	2.62	26	
cis-1,2-Dichloroethene	24.4	5.00	ug/L	20.00		122	77-137	2.95	17	
cis-1,2-Dichloroethene	24.4	5.00	ug/L	20.00		122	77-137	2.95	17	
cis-1,3-Dichloropropene	29.3	5.00	ug/L	20.00		146	70-133	1.90	19	L
cis-1,3-Dichloropropene	29.3	5.00	ug/L	20.00		146	70-133	1.90	19	L
Dibromochloromethane	23.3	5.00	ug/L	20.00		117	68-131	0.990	18	
Dibromochloromethane	23.3	5.00	ug/L	20.00		117	68-131	0.990	18	
Dibromomethane	21.1	5.00	ug/L	20.00		106	74-129	0.665	16	
Dibromomethane	21.1	5.00	ug/L	20.00		106	74-129	0.665	16	
Dichlorodifluoromethane	24.2	5.00	ug/L	20.00		121	41-145	0.704	15	
Dichlorodifluoromethane	24.2	5.00	ug/L	20.00		121	41-145	0.704	15	
Ethylbenzene	22.8	5.00	ug/L	20.00		114	79-126	2.17	20	
Ethylbenzene	22.8	5.00	ug/L	20.00		114	79-126	2.17	20	
Iodomethane	14.0	10.0	ug/L	20.00		70.2	52-150	6.78	25	
Iodomethane	14.0	10.0	ug/L	20.00		70.2	52-150	6.78	25	
Methylene Chloride	22.4	5.00	ug/L	20.00		112	43-162	24.6	28	
Methylene Chloride	22.4	5.00	ug/L	20.00		112	43-162	24.6	28	
Methyl tert-Butyl Ether	23.7	10.0	ug/L	20.00		118	63-134	0.423	20	
Methyl tert-Butyl Ether	23.7	10.0	ug/L	20.00		118	63-134	0.423	20	
m,p-Xylene	47.6	10.0	ug/L	40.00		119	82-132	1.74	18	
m,p-Xylene	47.6	10.0	ug/L	40.00		119	82-132	1.74	18	
n-Butylbenzene	21.4	5.00	ug/L	20.00		107	80-135	0.752	18	
n-Hexane	8.32	5.00	ug/L	20.00		41.6	10-216	7.35	64	
n-Hexane	8.32	5.00	ug/L	20.00		41.6	10-216	7.35	64	
o-Xylene	20.0	5.00	ug/L	20.00		100	81-128	1.81	19	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1031134 - VOC PREP										
LCS Dup (1031134-BSD1)				Prepared & Analyzed: 07/25/10						
o-Xylene	20.0	5.00	ug/L	20.00		100	81-128	1.81	19	
Styrene	21.7	5.00	ug/L	20.00		108	81-129	1.44	17	
Styrene	21.7	5.00	ug/L	20.00		108	81-129	1.44	17	
Tetrachloroethene	19.2	5.00	ug/L	20.00		95.8	43-152	14.6	29	
Tetrachloroethene	19.2	5.00	ug/L	20.00		95.8	43-152	14.6	29	
Toluene	22.7	5.00	ug/L	20.00		113	79-128	1.96	19	
Toluene	22.7	5.00	ug/L	20.00		113	79-128	1.96	19	
trans-1,2-Dichloroethene	16.3	5.00	ug/L	20.00		81.4	60-144	2.43	20	
trans-1,2-Dichloroethene	16.3	5.00	ug/L	20.00		81.4	60-144	2.43	20	
trans-1,3-Dichloropropene	30.3	5.00	ug/L	20.00		152	67-138	0.895	17	L
trans-1,3-Dichloropropene	30.3	5.00	ug/L	20.00		152	67-138	0.895	17	L
Trichloroethene	20.0	5.00	ug/L	20.00		100	74-132	2.63	20	
Trichloroethene	20.0	5.00	ug/L	20.00		100	74-132	2.63	20	
Trichlorofluoromethane	19.4	5.00	ug/L	20.00		96.8	48-170	1.04	50	
Trichlorofluoromethane	19.4	5.00	ug/L	20.00		96.8	48-170	1.04	50	
Vinyl Chloride	21.7	1.00	ug/L	20.00		108	60-143	2.62	19	
Vinyl Chloride	21.7	1.00	ug/L	20.00		108	60-143	2.62	19	
Vinyl acetate	20.0	10.0	ug/L	20.00		99.8	16-196	3.83	45	
Vinyl acetate	20.0	10.0	ug/L	20.00		99.8	16-196	3.83	45	
Surrogate: 4-Bromofluorobenzene	*65.9*		*ug/L*	*50.00*		*132*	*41-140*			
Surrogate: 4-Bromofluorobenzene	*65.9*		*ug/L*	*50.00*		*132*	*41-140*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50.00*		*105*	*34-158*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50.00*		*105*	*34-158*			
Surrogate: Toluene-d8	*68.2*		*ug/L*	*50.00*		*136*	*47-147*			
Surrogate: Toluene-d8	*68.2*		*ug/L*	*50.00*		*136*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*51.6*		*ug/L*	*50.00*		*103*	*29-163*			
Surrogate: 1,2-Dichloroethane-d4	*51.6*		*ug/L*	*50.00*		*103*	*29-163*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030002 - PREP_SVOC_W										
Blank (1030002-BLK1)				Prepared: 07/19/10 Analyzed: 07/27/10						
2-Methylnaphthalene	BDL	10.0	ug/L							
Acenaphthene	BDL	10.0	ug/L							
Acenaphthylene	BDL	10.0	ug/L							
Anthracene	BDL	10.0	ug/L							
Benz(a)anthracene	BDL	0.260	ug/L							
Benzo(a)pyrene	BDL	0.200	ug/L							
Benzo(b)fluoranthene	BDL	0.170	ug/L							
Benzo(g,h,i)perylene	BDL	10.0	ug/L							
Benzo(k)fluoranthene	BDL	1.70	ug/L							
Chrysene	BDL	10.0	ug/L							
Dibenz(a,h)anthracene	BDL	0.200	ug/L							
Fluoranthene	BDL	10.0	ug/L							
Fluorene	BDL	10.0	ug/L							
Indeno(1,2,3-cd)pyrene	BDL	0.220	ug/L							
Naphthalene	BDL	10.0	ug/L							
Phenanthrene	BDL	10.0	ug/L							
Pyrene	BDL	10.0	ug/L							
Surrogate: Nitrobenzene-d5	*31.3*		*ug/L*	*40.00*		*78.2*	*50-125*			
Surrogate: 2-Fluorobiphenyl	*37.1*		*ug/L*	*40.00*		*92.8*	*50-120*			
Surrogate: Terphenyl-d14	*37.6*		*ug/L*	*40.00*		*94.0*	*30-150*			
LCS (1030002-BS1)				Prepared: 07/19/10 Analyzed: 07/27/10						
Acenaphthene	80.1	10.0	ug/L	100.0		80.1	65-110			
Acenaphthylene	85.8	10.0	ug/L	100.0		85.8	45-120			
Anthracene	94.8	10.0	ug/L	100.0		94.8	50-120			
Benz(a)anthracene	96.7	0.260	ug/L	100.0		96.7	65-125			
Benzo(a)pyrene	129	0.200	ug/L	100.0		129	40-150			
Benzo(b)fluoranthene	129	0.170	ug/L	100.0		129	30-165			
Benzo(g,h,i)perylene	119	10.0	ug/L	100.0		119	40-175			
Benzo(k)fluoranthene	81.8	1.70	ug/L	100.0		81.8	35-125			
Chrysene	96.9	10.0	ug/L	100.0		96.9	60-125			
Dibenz(a,h)anthracene	132	0.200	ug/L	100.0		132	30-180			
Fluoranthene	91.1	10.0	ug/L	100.0		91.1	55-125			
Fluorene	86.3	10.0	ug/L	100.0		86.3	60-120			
Indeno(1,2,3-cd)pyrene	111	0.220	ug/L	100.0		111	40-180			
Naphthalene	51.5	10.0	ug/L	100.0		51.5	40-115			
Phenanthrene	91.2	10.0	ug/L	100.0		91.2	50-115			
Pyrene	82.6	10.0	ug/L	100.0		82.6	55-130			
Surrogate: Nitrobenzene-d5	*38.7*		*ug/L*	*40.00*		*96.8*	*50-125*			
Surrogate: 2-Fluorobiphenyl	*30.8*		*ug/L*	*40.00*		*77.1*	*50-120*			
Surrogate: Terphenyl-d14	*35.3*		*ug/L*	*40.00*		*88.2*	*30-150*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030002 - PREP_SVOC_W										
LCS Dup (1030002-BSD1)				Prepared: 07/19/10 Analyzed: 07/27/10						
Acenaphthene	85.4	10.0	ug/L	100.0		85.4	65-110	6.33	15	
Acenaphthylene	87.9	10.0	ug/L	100.0		87.9	45-120	2.35	15	
Anthracene	93.3	10.0	ug/L	100.0		93.3	50-120	1.55	18	
Benz(a)anthracene	101	0.260	ug/L	100.0		101	65-125	4.12	20	
Benzo(a)pyrene	130	0.200	ug/L	100.0		130	40-150	0.743	20	
Benzo(b)fluoranthene	142	0.170	ug/L	100.0		142	30-165	9.33	30	
Benzo(g,h,i)perylene	113	10.0	ug/L	100.0		113	40-175	4.81	20	
Benzo(k)fluoranthene	99.3	1.70	ug/L	100.0		99.3	35-125	19.3	30	
Chrysene	101	10.0	ug/L	100.0		101	60-125	4.05	20	
Dibenz(a,h)anthracene	140	0.200	ug/L	100.0		140	30-180	5.99	20	
Fluoranthene	89.5	10.0	ug/L	100.0		89.5	55-125	1.75	15	
Fluorene	94.4	10.0	ug/L	100.0		94.4	60-120	8.91	15	
Indeno(1,2,3-cd)pyrene	116	0.220	ug/L	100.0		116	40-180	4.71	30	
Naphthalene	50.6	10.0	ug/L	100.0		50.6	40-115	1.74	14	
Phenanthrene	87.7	10.0	ug/L	100.0		87.7	50-115	3.94	18	
Pyrene	89.4	10.0	ug/L	100.0		89.4	55-130	7.91	20	
Surrogate: Nitrobenzene-d5	*30.5*		*ug/L*	*40.00*		*76.3*	*50-125*			
Surrogate: 2-Fluorobiphenyl	*38.6*		*ug/L*	*40.00*		*96.4*	*50-120*			
Surrogate: Terphenyl-d14	*39.0*		*ug/L*	*40.00*		*97.6*	*30-150*			

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

L Laboratory control sample recovery outside of acceptance limits high, sample results are below detection limits. Sample data is still acceptable.

Sample preservation was met unless otherwise noted.

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10J0271	10/19/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Holly Green
Affiant Signature

Sworn to before me this 15th day of November, 2010.

Vanessa L. Heslep
Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Tuesday, October 19, 2010
Analytical Results

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl Brewery 72.05876.0884 Work Order: 10J0271

Belmont Labs received 8 sample(s) on 10/6/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green
Project Manager

Certifications: NELAP/NELAC - #04130 VAP - #CL0032
Ohio EPA Drinking water - #836 Ohio EPA Drinking water (Micro) - #872

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10J0271-01A	MW-1	10/5/2010 3:35:00PM	10/6/2010
10J0271-01B	MW-1	10/5/2010 3:35:00PM	10/6/2010
10J0271-01C	MW-1	10/5/2010 3:35:00PM	10/6/2010
10J0271-02A	MW-2	10/5/2010 2:45:00PM	10/6/2010
10J0271-02B	MW-2	10/5/2010 2:45:00PM	10/6/2010
10J0271-02C	MW-2	10/5/2010 2:45:00PM	10/6/2010
10J0271-03A	MW-3	10/5/2010 12:57:00PM	10/6/2010
10J0271-03B	MW-3	10/5/2010 12:57:00PM	10/6/2010
10J0271-03C	MW-3	10/5/2010 12:57:00PM	10/6/2010
10J0271-04A	MW-4	10/5/2010 11:56:00AM	10/6/2010
10J0271-04B	MW-4	10/5/2010 11:56:00AM	10/6/2010
10J0271-04C	MW-4	10/5/2010 11:56:00AM	10/6/2010
10J0271-05A	MW-5	10/5/2010 1:51:00PM	10/6/2010
10J0271-05B	MW-5	10/5/2010 1:51:00PM	10/6/2010
10J0271-05C	MW-5	10/5/2010 1:51:00PM	10/6/2010
10J0271-06A	D-8	10/5/2010 12:00:00AM	10/6/2010
10J0271-06B	D-8	10/5/2010 12:00:00AM	10/6/2010
10J0271-06C	D-8	10/5/2010 12:00:00AM	10/6/2010
10J0271-07A	EB-3	10/5/2010 12:00:00AM	10/6/2010
10J0271-07B	EB-3	10/5/2010 12:00:00AM	10/6/2010
10J0271-07C	EB-3	10/5/2010 12:00:00AM	10/6/2010
10J0271-08A	FB-3	10/5/2010 12:00:00AM	10/6/2010
10J0271-08B	FB-3	10/5/2010 12:00:00AM	10/6/2010
10J0271-08C	FB-3	10/5/2010 12:00:00AM	10/6/2010

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-01 **Collection Date:** 10/5/2010 3:35:00PM
Client Sample ID: MW-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
2-Butanone	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
2-Hexanone	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
fethyl-2-pentanone	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
.cetone	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Acetonitrile	BDL	40.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Acrolein	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Allyl chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Benzene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Bromobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Bromoform	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Bromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Chloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Chloroform	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Chloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Dibromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Iodomethane	BDL	10.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043112	10/16/2010 2:19:00AM
p-Xylene	BDL	10.0		ug/L	1	1043112	10/16/2010 2:19:00AM
n-Hexane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-01 **Collection Date:** 10/5/2010 3:35:00PM
Client Sample ID: MW-1 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Styrene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Toluene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Trichloroethene	**35.0**	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1043112	10/16/2010 2:19:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1043112	10/16/2010 2:19:00AM
Surrogate: 4-Bromofluorobenzene	*90.9 %*			*41-140*		*1043112*	10/16/2010 2:19:00AM
Surrogate: Dibromofluoromethane	*103 %*			*34-158*		*1043112*	10/16/2010 2:19:00AM
Surrogate: Toluene-d8	*103 %*			*47-147*		*1043112*	10/16/2010 2:19:00AM
Surrogate: 1,2-Dichloroethane-d4	*98.1 %*			*29-163*		*1043112*	10/16/2010 2:19:00AM

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-02 **Collection Date:** 10/5/2010 2:45:00PM
Client Sample ID: MW-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
2-Butanone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
2-Hexanone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Acetone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Acetonitrile	BDL	40.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Acrolein	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Allyl chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Benzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Bromobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Bromoform	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Bromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Chloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Chloroform	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Chloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Dibromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Iodomethane	BDL	10.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043112	10/16/2010 1:08:00AM
p-Xylene	BDL	10.0		ug/L	1	1043112	10/16/2010 1:08:00AM
n-Hexane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-02 **Collection Date:** 10/5/2010 2:45:00PM
Client Sample ID: MW-2 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Styrene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Toluene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Trichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1043112	10/16/2010 1:08:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1043112	10/16/2010 1:08:00AM
Surrogate: 4-Bromofluorobenzene	*92.2 %*			*41-140*		*1043112*	10/16/2010 1:08:00AM
Surrogate: Dibromofluoromethane	*106 %*			*34-158*		*1043112*	10/16/2010 1:08:00AM
Surrogate: Toluene-d8	*105 %*			*47-147*		*1043112*	10/16/2010 1:08:00AM
Surrogate: 1,2-Dichloroethane-d4	*101 %*			*29-163*		*1043112*	10/16/2010 1:08:00AM

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-03 **Collection Date:** 10/5/2010 12:57:00PM
Client Sample ID: MW-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
2-Butanone	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
2-Hexanone	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
fethyl-2-pentanone	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Acetone	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Acetonitrile	BDL	40.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Acrolein	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Allyl chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Benzene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Bromobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Bromoform	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Bromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Chloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Chloroform	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Chloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Dibromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Iodomethane	BDL	10.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043112	10/16/2010 3:30:00AM
m,p-Xylene	BDL	10.0		ug/L	1	1043112	10/16/2010 3:30:00AM
n-Hexane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-03 **Collection Date:** 10/5/2010 12:57:00PM
Client Sample ID: MW-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Styrene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Toluene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Trichloroethene	**75.4**	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1043112	10/16/2010 3:30:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1043112	10/16/2010 3:30:00AM
Surrogate: 4-Bromofluorobenzene	*91.3 %*			*41-140*		*1043112*	10/16/2010 3:30:00AM
Surrogate: Dibromofluoromethane	*106 %*			*34-158*		*1043112*	10/16/2010 3:30:00AM
Surrogate: Toluene-d8	*103 %*			*47-147*		*1043112*	10/16/2010 3:30:00AM
Surrogate: 1,2-Dichloroethane-d4	*103 %*			*29-163*		*1043112*	10/16/2010 3:30:00AM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-04 **Collection Date:** 10/5/2010 11:56:00AM
Client Sample ID: MW-4 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
2-Butanone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
2-Hexanone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
fethyl-2-pentanone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
.cetone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Acetonitrile	BDL	40.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Acrolein	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Allyl chloride	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Benzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Bromobenzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Bromoform	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Bromomethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Chloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Chloroform	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Chloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Dibromomethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Iodomethane	BDL	10.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
·ethyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043105	10/15/2010 12:11:00PM
p-Xylene	BDL	10.0		ug/L	1	1043105	10/15/2010 12:11:00PM
n-Hexane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-04 **Collection Date:** 10/5/2010 11:56:00AM
Client Sample ID: MW-4 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Styrene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Toluene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Trichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1043105	10/15/2010 12:11:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1043105	10/15/2010 12:11:00PM
Surrogate: 4-Bromofluorobenzene	*79.8 %*			*41-140*		*1043105*	10/15/2010 12:11:00PM
Surrogate: Dibromofluoromethane	*92.6 %*			*34-158*		*1043105*	10/15/2010 12:11:00PM
Surrogate: Toluene-d8	*93.5 %*			*47-147*		*1043105*	10/15/2010 12:11:00PM
Surrogate: 1,2-Dichloroethane-d4	*84.5 %*			*29-163*		*1043105*	10/15/2010 12:11:00PM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-05 **Collection Date:** 10/5/2010 1:51:00PM
Client Sample ID: MW-5 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
2-Butanone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
2-Hexanone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
; fethyl-2-pentanone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
_.cetone	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Acetonitrile	BDL	40.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Acrolein	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Allyl chloride	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Benzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Bromobenzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Bromoform	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Bromomethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Chloroethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Chloroform	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Chloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Dibromomethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Iodomethane	BDL	10.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
` 'ethyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043105	10/15/2010 12:46:00PM
,-Xylene	BDL	10.0		ug/L	1	1043105	10/15/2010 12:46:00PM
n-Hexane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-05 **Collection Date:** 10/5/2010 1:51:00PM
Client Sample ID: MW-5 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Styrene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Toluene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Trichloroethene	**12.4**	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1043105	10/15/2010 12:46:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1043105	10/15/2010 12:46:00PM
Surrogate: 4-Bromofluorobenzene	*99.7 %*			*41-140*		*1043105*	10/15/2010 12:46:00PM
Surrogate: Dibromofluoromethane	*116 %*			*34-158*		*1043105*	10/15/2010 12:46:00PM
Surrogate: Toluene-d8	*116 %*			*47-147*		*1043105*	10/15/2010 12:46:00PM
Surrogate: 1,2-Dichloroethane-d4	*104 %*			*29-163*		*1043105*	10/15/2010 12:46:00PM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-06 **Collection Date:** 10/5/2010 12:00:00AM
Client Sample ID: D-8 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
2-Butanone	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
2-Hexanone	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Acetone	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Acetonitrile	BDL	40.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Acrolein	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Allyl chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Benzene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Bromobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Bromoform	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Bromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Chloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Chloroform	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Chloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Dibromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Iodomethane	BDL	10.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043112	10/16/2010 12:33:00AM
m,p-Xylene	BDL	10.0		ug/L	1	1043112	10/16/2010 12:33:00AM
n-Hexane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-06 **Collection Date:** 10/5/2010 12:00:00AM
Client Sample ID: D-8 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Styrene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Toluene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Trichloroethene	**37.4**	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1043112	10/16/2010 12:33:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1043112	10/16/2010 12:33:00AM
Surrogate: 4-Bromofluorobenzene	*95.7 %*			*41-140*		*1043112*	10/16/2010 12:33:00AM
Surrogate: Dibromofluoromethane	*105 %*			*34-158*		*1043112*	10/16/2010 12:33:00AM
Surrogate: Toluene-d8	*107 %*			*47-147*		*1043112*	10/16/2010 12:33:00AM
Surrogate: 1,2-Dichloroethane-d4	*102 %*			*29-163*		*1043112*	10/16/2010 12:33:00AM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-07 **Collection Date:** 10/5/2010 12:00:00AM
Client Sample ID: EB-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
2-Butanone	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
2-Hexanone	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Methyl-2-pentanone	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Acetone	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Acetonitrile	BDL	40.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Acrolein	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Allyl chloride	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Benzene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Bromobenzene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Bromoform	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Bromomethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Carbon Disulfide	BDL	20.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Chloroethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Chloroform	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Chloromethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Dibromomethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Iodomethane	BDL	10.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043112	10/15/2010 11:20:00PM
p-Xylene	BDL	10.0		ug/L	1	1043112	10/15/2010 11:20:00PM
n-Hexane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM

Belmont Labs **Date:** 10/19/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-07 **Collection Date:** 10/5/2010 12:00:00AM
Client Sample ID: EB-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Styrene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Toluene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Trichloroethene	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1043112	10/15/2010 11:20:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1043112	10/15/2010 11:20:00PM
Surrogate: 4-Bromofluorobenzene	*97.6 %*			*41-140*		*1043112*	10/15/2010 11:20:00PM
Surrogate: Dibromofluoromethane	*108 %*			*34-158*		*1043112*	10/15/2010 11:20:00PM
Surrogate: Toluene-d8	*112 %*			*47-147*		*1043112*	10/15/2010 11:20:00PM
Surrogate: 1,2-Dichloroethane-d4	*104 %*			*29-163*		*1043112*	10/15/2010 11:20:00PM

Belmont Labs **Date:** 10/19/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-08 **Collection Date:** 10/5/2010 12:00:00AM
Client Sample ID: FB-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC 8260	**SW 8260B**					**Analyst: kds**	
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
2-Butanone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
2-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
2-Hexanone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
4-Chlorotoluene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Acetone	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Acetonitrile	BDL	40.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Acrolein	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Acrylonitrile	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Allyl chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Benzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Bromobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Bromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Bromodichloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Bromoform	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Bromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Carbon Disulfide	BDL	20.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Chlorobenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Chloroethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Chloroform	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Chloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Dibromochloromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Dibromomethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Ethylbenzene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Iodomethane	BDL	10.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Methylene Chloride	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1043112	10/16/2010 1:44:00AM
p-Xylene	BDL	10.0		ug/L	1	1043112	10/16/2010 1:44:00AM
n-Hexane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM

Belmont Labs **Date:** 10/19/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0271
Project: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0271-08 **Collection Date:** 10/5/2010 12:00:00AM
Client Sample ID: FB-3 **Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
o-Xylene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Styrene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Tetrachloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Toluene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Trichloroethene	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Vinyl Chloride	BDL	1.00		ug/L	1	1043112	10/16/2010 1:44:00AM
Vinyl acetate	BDL	10.0		ug/L	1	1043112	10/16/2010 1:44:00AM
Surrogate: 4-Bromofluorobenzene	*95.1 %*			*41-140*		*1043112*	10/16/2010 1:44:00AM
Surrogate: Dibromofluoromethane	*118 %*			*34-158*		*1043112*	10/16/2010 1:44:00AM
Surrogate: Toluene-d8	*107 %*			*47-147*		*1043112*	10/16/2010 1:44:00AM
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*29-163*		*1043112*	10/16/2010 1:44:00AM

Belmont Labs
The Environmental Service Company. 72.0552, 0.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

Internal Lab Order Number 10J0271

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45211
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOAs 8260 (HNO3, HCl, H2SO4, Ice, None, Other)	Lab Only
MW-1	10/5/10	1535		X	GW	3	X	
MW-2		1445		X		3	X	
MW-3		1257		X		3	X	
MW-4		1156		X		3	X	
MW-5		1351		X		3	X	
D-8		-		X		3	X	
EB-3		-		X		3	X	
~~FB-4~~ FB-3		-		X		3	X	
						(24)		

CHAIN OF CUSTODY (if required)

Relinquished by: William G Norris Date/Time 10/6/10 9:10am Received by: [signature] 10-6-10 Date/Time 0920

Relinquished by: Date/Time Received at lab by: [signature] 10-6-10 Date/Time 1530

Method of Shipment: lab courier Cooler Temp. 01-2°C Custody Seals ☒ Yes ☐ No

Sampled by: Wm Norris Date 10/5/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B .n #9786-5/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043105 - VOC PREP										
Blank (1043105-BLK1)				Prepared & Analyzed: 10/15/10						
1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2-Butanone	BDL	20.0	ug/L							
2-Chlorotoluene	BDL	5.00	ug/L							
?-Hexanone	BDL	20.0	ug/L							
ılorotoluene	BDL	5.00	ug/L							
+-Methyl-2-pentanone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
Allyl chloride	BDL	5.00	ug/L							
Benzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
cis-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
thyl tert-Butyl Ether	BDL	10.0	ug/L							
...p-Xylene	BDL	10.0	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043105 - VOC PREP										
Blank (1043105-BLK1)				Prepared & Analyzed: 10/15/10						
n-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45.8*		*ug/L*	*50.00*		*91.5*	*41-140*			
Surrogate: Dibromofluoromethane	*47.8*		*ug/L*	*50.00*		*95.6*	*34-158*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99.3*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*46.0*		*ug/L*	*50.00*		*92.1*	*29-163*			
LCS (1043105-BS1)				Prepared & Analyzed: 10/15/10						
1,1,1,2-Tetrachloroethane	20.6	5.00	ug/L	20.00		103	78-128			
1,1,1-Trichloroethane	23.6	5.00	ug/L	20.00		118	70-135			
1,1,2,2-Tetrachloroethane	22.7	5.00	ug/L	20.00		114	68-135			
1,1,2-Trichloroethane	21.6	5.00	ug/L	20.00		108	74-131			
1,1-Dichloroethane	22.8	5.00	ug/L	20.00		114	72-134			
1,1-Dichloroethene	28.0	5.00	ug/L	20.00		140	62-143			
1,1-Dichloropropene	24.4	5.00	ug/L	20.00		122	82-128			
1,2-Dibromoethane	20.5	5.00	ug/L	20.00		103	67-132			
1,2-Dichloroethane	21.1	5.00	ug/L	20.00		105	72-131			
1,2-Dichloropropane	21.3	5.00	ug/L	20.00		106	75-128			
1,3-Dichloropropane	20.8	5.00	ug/L	20.00		104	73-130			
2,2-Dichloropropane	25.3	5.00	ug/L	20.00		127	45-173			
2-Butanone	80.6	20.0	ug/L	80.00		101	42-140			
2-Chlorotoluene	22.3	5.00	ug/L	20.00		112	76-126			
2-Hexanone	84.0	20.0	ug/L	80.00		105	18-178			
4-Chlorotoluene	20.6	5.00	ug/L	20.00		103	77-132			
4-Methyl-2-pentanone	87.4	20.0	ug/L	80.00		109	42-160			
Acetone	81.6	20.0	ug/L	80.00		102	30-173			
Acetonitrile	21.0	40.0	ug/L	20.00		105	58-150			
Acrylonitrile	19.7	20.0	ug/L	20.00		98.4	64-153			
Allyl chloride	25.2	5.00	ug/L	20.00		126	67-149			
Benzene	22.2	5.00	ug/L	20.00		111	77-126			
Bromobenzene	20.9	5.00	ug/L	20.00		105	72-131			
Bromochloromethane	19.9	5.00	ug/L	20.00		99.4	71-135			
Bromodichloromethane	21.9	5.00	ug/L	20.00		110	78-129			
·omoform	19.8	5.00	ug/L	20.00		99.0	69-135			
omomethane	24.9	5.00	ug/L	20.00		124	14-193			
Carbon Disulfide	30.7	20.0	ug/L	20.00		154	54-150			L

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043105 - VOC PREP										
LCS (1043105-BS1)				Prepared & Analyzed: 10/15/10						
Carbon Tetrachloride	23.8	5.00	ug/L	20.00		119	67-138			
Chlorobenzene	21.0	5.00	ug/L	20.00		105	77-125			
Chloroethane	20.5	5.00	ug/L	20.00		103	27-170			
Chloroform	21.8	5.00	ug/L	20.00		109	73-136			
Chloromethane	15.1	5.00	ug/L	20.00		75.4	44-145			
cis-1,2-Dichloroethene	21.1	5.00	ug/L	20.00		105	77-137			
cis-1,3-Dichloropropene	22.5	5.00	ug/L	20.00		113	70-133			
Dibromochloromethane	20.7	5.00	ug/L	20.00		104	68-131			
Dibromomethane	21.3	5.00	ug/L	20.00		107	74-129			
Dichlorodifluoromethane	16.9	5.00	ug/L	20.00		84.3	41-145			
Ethylbenzene	21.8	5.00	ug/L	20.00		109	79-126			
Iodomethane	21.9	10.0	ug/L	20.00		109	52-150			
Methylene Chloride	21.1	5.00	ug/L	20.00		105	43-162			
Methyl tert-Butyl Ether	20.9	10.0	ug/L	20.00		104	63-134			
m,p-Xylene	44.8	10.0	ug/L	40.00		112	82-132			
Hexane	31.4	5.00	ug/L	21.20		148	10-216			
o-Xylene	21.3	5.00	ug/L	20.00		107	81-128			
Styrene	21.6	5.00	ug/L	20.00		108	81-129			
Tetrachloroethene	14.4	5.00	ug/L	20.00		72.0	43-152			
Toluene	21.6	5.00	ug/L	20.00		108	79-128			
trans-1,2-Dichloroethene	23.5	5.00	ug/L	20.00		117	60-144			
trans-1,3-Dichloropropene	24.0	5.00	ug/L	20.00		120	67-138			
Trichloroethene	20.8	5.00	ug/L	20.00		104	74-132			
Trichlorofluoromethane	23.7	5.00	ug/L	20.00		119	48-170			
Vinyl Chloride	20.3	1.00	ug/L	20.00		101	60-143			
Vinyl acetate	23.9	10.0	ug/L	20.00		120	16-196			
Surrogate: 4-Bromofluorobenzene	*51.9*		*ug/L*	*50.00*		*104*	*41-140*			
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50.00*		*106*	*34-158*			
Surrogate: Toluene-d8	*56.1*		*ug/L*	*50.00*		*112*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*49.9*		*ug/L*	*50.00*		*99.7*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043105 - VOC PREP										
LCS Dup (1043105-BSD1)				Prepared & Analyzed: 10/15/10						
1,1,1,2-Tetrachloroethane	20.5	5.00	ug/L	20.00		103	78-128	0.292	16	
1,1,1-Trichloroethane	23.7	5.00	ug/L	20.00		118	70-135	0.508	20	
1,1,2,2-Tetrachloroethane	21.9	5.00	ug/L	20.00		109	68-135	3.77	19	
1,1,2-Trichloroethane	21.2	5.00	ug/L	20.00		106	74-131	1.91	16	
1,1-Dichloroethane	23.0	5.00	ug/L	20.00		115	72-134	1.22	19	
1,1-Dichloroethene	28.4	5.00	ug/L	20.00		142	62-143	1.21	20	
1,1-Dichloropropene	24.8	5.00	ug/L	20.00		124	82-128	1.55	18	
1,2-Dibromoethane	20.2	5.00	ug/L	20.00		101	67-132	1.62	13	
1,2-Dichloroethane	21.2	5.00	ug/L	20.00		106	72-131	0.615	16	
1,2-Dichloropropane	21.5	5.00	ug/L	20.00		108	75-128	1.03	19	
1,3-Dichloropropane	20.6	5.00	ug/L	20.00		103	73-130	0.773	13	
2,2-Dichloropropane	25.0	5.00	ug/L	20.00		125	45-173	1.15	25	
2-Butanone	77.2	20.0	ug/L	80.00		96.4	42-140	4.31	18	
2-Chlorotoluene	22.4	5.00	ug/L	20.00		112	76-126	0.447	20	
?-Hexanone	82.9	20.0	ug/L	80.00		104	18-178	1.21	17	
'hlorotoluene	20.8	5.00	ug/L	20.00		104	77-132	0.773	22	
+-Methyl-2-pentanone	85.1	20.0	ug/L	80.00		106	42-160	2.61	67	
Acetone	80.6	20.0	ug/L	80.00		101	30-173	1.32	24	
Acetonitrile	20.3	40.0	ug/L	20.00		102	58-150	3.34	25	
Acrylonitrile	21.1	20.0	ug/L	20.00		106	64-153	7.06	20	
Allyl chloride	25.0	5.00	ug/L	20.00		125	67-149	0.678	16	
Benzene	22.5	5.00	ug/L	20.00		112	77-126	1.21	19	
Bromobenzene	20.8	5.00	ug/L	20.00		104	72-131	0.671	20	
Bromochloromethane	19.8	5.00	ug/L	20.00		99.0	71-135	0.403	16	
Bromodichloromethane	22.0	5.00	ug/L	20.00		110	78-129	0.501	17	
Bromoform	19.5	5.00	ug/L	20.00		97.4	69-135	1.68	18	
Bromomethane	24.0	5.00	ug/L	20.00		120	14-193	3.73	28	
Carbon Disulfide	31.3	20.0	ug/L	20.00		156	54-150	1.90	19	L
Carbon Tetrachloride	23.6	5.00	ug/L	20.00		118	67-138	0.971	21	
Chlorobenzene	21.1	5.00	ug/L	20.00		105	77-125	0.285	19	
Chloroethane	21.2	5.00	ug/L	20.00		106	27-170	3.07	64	
Chloroform	21.8	5.00	ug/L	20.00		109	73-136	0.0919	19	
Chloromethane	15.9	5.00	ug/L	20.00		79.5	44-145	5.36	26	
cis-1,2-Dichloroethene	21.5	5.00	ug/L	20.00		108	77-137	2.02	17	
cis-1,3-Dichloropropene	22.3	5.00	ug/L	20.00		111	70-133	0.982	19	
Dibromochloromethane	20.5	5.00	ug/L	20.00		102	68-131	1.12	18	
Dibromomethane	21.0	5.00	ug/L	20.00		105	74-129	1.32	16	
Dichlorodifluoromethane	16.4	5.00	ug/L	20.00		82.2	41-145	2.46	15	
Ethylbenzene	22.0	5.00	ug/L	20.00		110	79-126	1.14	20	
Iodomethane	23.9	10.0	ug/L	20.00		119	52-150	8.75	25	
Methylene Chloride	20.9	5.00	ug/L	20.00		105	43-162	0.809	28	
Methyl tert-Butyl Ether	20.6	10.0	ug/L	20.00		103	63-134	1.25	20	
,p-Xylene	45.4	10.0	ug/L	40.00		113	82-132	1.15	18	
.-Hexane	30.2	5.00	ug/L	21.20		143	10-216	3.64	64	
o-Xylene	21.2	5.00	ug/L	20.00		106	81-128	0.800	19	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043105 - VOC PREP										
LCS Dup (1043105-BSD1)				Prepared & Analyzed: 10/15/10						
Styrene	21.6	5.00	ug/L	20.00		108	81-129	0.0464	17	
Tetrachloroethene	16.5	5.00	ug/L	20.00		82.4	43-152	13.5	29	
Toluene	21.5	5.00	ug/L	20.00		108	79-128	0.418	19	
trans-1,2-Dichloroethene	24.0	5.00	ug/L	20.00		120	60-144	2.02	20	
trans-1,3-Dichloropropene	23.6	5.00	ug/L	20.00		118	67-138	1.73	17	
Trichloroethene	21.2	5.00	ug/L	20.00		106	74-132	1.71	20	
Trichlorofluoromethane	23.2	5.00	ug/L	20.00		116	48-170	2.17	50	
Vinyl Chloride	20.7	1.00	ug/L	20.00		103	60-143	1.86	19	
Vinyl acetate	22.9	10.0	ug/L	20.00		114	16-196	4.48	45	
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.00*		*102*	*41-140*			
Surrogate: Dibromofluoromethane	*51.4*		*ug/L*	*50.00*		*103*	*34-158*			
Surrogate: Toluene-d8	*54.5*		*ug/L*	*50.00*		*109*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*48.2*		*ug/L*	*50.00*		*96.5*	*29-163*			
Batch 1043112 - VOC PREP										
ank (1043112-BLK1)				Prepared & Analyzed: 10/15/10						
1,1,1,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,1-Trichloroethane	BDL	1.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	1.00	ug/L							
1,1,2-Trichloroethane	BDL	1.00	ug/L							
1,1-Dichloroethane	BDL	2.00	ug/L							
1,1-Dichloroethene	BDL	1.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	1.00	ug/L							
1,2-Dichloropropane	BDL	1.00	ug/L							
1,3-Dichloropropane	BDL	1.00	ug/L							
2,2-Dichloropropane	BDL	1.00	ug/L							
2-Butanone	BDL	10.0	ug/L							
2-Chlorotoluene	BDL	1.00	ug/L							
2-Hexanone	BDL	10.0	ug/L							
4-Chlorotoluene	BDL	1.00	ug/L							
4-Methyl-2-pentanone	BDL	10.0	ug/L							
Acetone	BDL	10.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	10.0	ug/L							
Allyl chloride	BDL	1.00	ug/L							
Benzene	BDL	1.00	ug/L							
Bromobenzene	BDL	1.00	ug/L							
Bromochloromethane	BDL	1.00	ug/L							
Bromodichloromethane	BDL	1.00	ug/L							
omoform	BDL	1.00	ug/L							
Bromomethane	BDL	2.00	ug/L							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043112 - VOC PREP										
Blank (1043112-BLK1)				Prepared & Analyzed: 10/15/10						
Carbon Disulfide	BDL	5.00	ug/L							
Carbon Tetrachloride	BDL	1.00	ug/L							
Chlorobenzene	BDL	1.00	ug/L							
Chloroethane	BDL	1.00	ug/L							
Chloroform	BDL	1.00	ug/L							
Chloromethane	BDL	1.00	ug/L							
cis-1,2-Dichloroethene	BDL	1.00	ug/L							
cis-1,3-Dichloropropene	BDL	1.00	ug/L							
Dibromochloromethane	BDL	1.00	ug/L							
Dibromomethane	BDL	1.00	ug/L							
Dichlorodifluoromethane	BDL	2.00	ug/L							
Ethylbenzene	BDL	1.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	4.45	1.00	ug/L							O-01
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
-Xylene	BDL	2.00	ug/L							
..-Hexane	BDL	5.00	ug/L							
o-Xylene	BDL	1.00	ug/L							
Styrene	BDL	1.00	ug/L							
Tetrachloroethene	BDL	1.00	ug/L							
Toluene	BDL	1.00	ug/L							
trans-1,2-Dichloroethene	BDL	1.00	ug/L							
trans-1,3-Dichloropropene	BDL	1.00	ug/L							
Trichloroethene	BDL	1.00	ug/L							
Trichlorofluoromethane	BDL	2.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.6*		*ug/L*	*50.00*		*97.2*	*41-140*			
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.00*		*102*	*34-158*			
Surrogate: Toluene-d8	*54.3*		*ug/L*	*50.00*		*109*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*48.2*		*ug/L*	*50.00*		*96.4*	*29-163*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043112 - VOC PREP										
LCS (1043112-BS1)				Prepared & Analyzed: 10/15/10						
1,1,1,2-Tetrachloroethane	20.1	1.00	ug/L	20.00		100	78-128			
1,1,1-Trichloroethane	22.8	1.00	ug/L	20.00		114	70-135			
1,1,2,2-Tetrachloroethane	20.2	1.00	ug/L	20.00		101	68-135			
1,1,2-Trichloroethane	20.5	1.00	ug/L	20.00		103	74-131			
1,1-Dichloroethane	22.7	2.00	ug/L	20.00		113	72-134			
1,1-Dichloroethene	27.8	1.00	ug/L	20.00		139	62-143			
1,1-Dichloropropene	23.5	5.00	ug/L	20.00		118	82-128			
1,2-Dibromoethane	19.4	5.00	ug/L	20.00		97.0	67-132			
1,2-Dichloroethane	20.6	1.00	ug/L	20.00		103	72-131			
1,2-Dichloropropane	20.8	1.00	ug/L	20.00		104	75-128			
1,3-Dichloropropane	19.7	1.00	ug/L	20.00		98.6	73-130			
2,2-Dichloropropane	22.1	1.00	ug/L	20.00		111	45-173			
2-Butanone	72.4	10.0	ug/L	80.00		90.4	42-140			
2-Chlorotoluene	22.3	1.00	ug/L	20.00		111	76-126			
?-Hexanone	77.0	10.0	ug/L	80.00		96.3	18-178			
ılorotoluene	20.4	1.00	ug/L	20.00		102	77-132			
.-Methyl-2-pentanone	76.9	10.0	ug/L	80.00		96.2	42-160			
Acetone	79.1	10.0	ug/L	80.00		98.9	30-173			
Acetonitrile	19.4	40.0	ug/L	20.00		97.2	58-150			
Acrylonitrile	19.8	10.0	ug/L	20.00		99.2	64-153			
Allyl chloride	23.5	1.00	ug/L	20.00		118	67-149			
Benzene	21.8	1.00	ug/L	20.00		109	77-126			
Bromobenzene	20.4	1.00	ug/L	20.00		102	72-131			
Bromochloromethane	19.4	1.00	ug/L	20.00		97.2	71-135			
Bromodichloromethane	21.2	1.00	ug/L	20.00		106	78-129			
Bromoform	18.6	1.00	ug/L	20.00		92.9	69-135			
Bromomethane	25.4	2.00	ug/L	20.00		127	14-193			
Carbon Disulfide	30.0	5.00	ug/L	20.00		150	54-150			
Carbon Tetrachloride	22.8	1.00	ug/L	20.00		114	67-138			
Chlorobenzene	20.8	1.00	ug/L	20.00		104	77-125			
Chloroethane	20.8	1.00	ug/L	20.00		104	27-170			
Chloroform	21.7	1.00	ug/L	20.00		108	73-136			
Chloromethane	15.6	1.00	ug/L	20.00		78.0	44-145			
cis-1,2-Dichloroethene	21.2	1.00	ug/L	20.00		106	77-137			
cis-1,3-Dichloropropene	21.0	1.00	ug/L	20.00		105	70-133			
Dibromochloromethane	19.8	1.00	ug/L	20.00		99.0	68-131			
Dibromomethane	20.2	1.00	ug/L	20.00		101	74-129			
Dichlorodifluoromethane	15.0	2.00	ug/L	20.00		75.2	41-145			
Ethylbenzene	21.7	1.00	ug/L	20.00		109	79-126			
Iodomethane	22.1	10.0	ug/L	20.00		111	52-150			
Methylene Chloride	21.4	1.00	ug/L	20.00		107	43-162			B
Methyl tert-Butyl Ether	20.0	10.0	ug/L	20.00		100	63-134			
›-Xylene	44.9	2.00	ug/L	40.00		112	82-132			
.-Hexane	27.3	5.00	ug/L	21.20		129	10-216			
o-Xylene	21.0	1.00	ug/L	20.00		105	81-128			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043112 - VOC PREP										
LCS (1043112-BS1)				Prepared & Analyzed: 10/15/10						
Styrene	21.2	1.00	ug/L	20.00		106	81-129			
Tetrachloroethene	21.3	1.00	ug/L	20.00		106	43-152			
Toluene	21.0	1.00	ug/L	20.00		105	79-128			
trans-1,2-Dichloroethene	23.2	1.00	ug/L	20.00		116	60-144			
trans-1,3-Dichloropropene	21.9	1.00	ug/L	20.00		110	67-138			
Trichloroethene	21.2	1.00	ug/L	20.00		106	74-132			
Trichlorofluoromethane	22.7	2.00	ug/L	20.00		113	48-170			
Vinyl Chloride	19.3	1.00	ug/L	20.00		96.4	60-143			
Vinyl acetate	15.1	10.0	ug/L	20.00		75.6	16-196			
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.00*		*96.2*	*41-140*			
Surrogate: Dibromofluoromethane	*49.2*		*ug/L*	*50.00*		*98.3*	*34-158*			
Surrogate: Toluene-d8	*53.1*		*ug/L*	*50.00*		*106*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*ug/L*	*50.00*		*90.5*	*29-163*			
LCS Dup (1043112-BSD1)				Prepared & Analyzed: 10/15/10						
,1,2-Tetrachloroethane	19.9	1.00	ug/L	20.00		99.4	78-128	0.952	16	
,1,1-Trichloroethane	23.2	1.00	ug/L	20.00		116	70-135	2.09	20	
1,1,2,2-Tetrachloroethane	19.7	1.00	ug/L	20.00		98.4	68-135	2.76	19	
1,1,2-Trichloroethane	20.4	1.00	ug/L	20.00		102	74-131	0.537	16	
1,1-Dichloroethane	22.9	2.00	ug/L	20.00		115	72-134	1.23	19	
1,1-Dichloroethene	28.1	1.00	ug/L	20.00		140	62-143	0.859	20	
1,1-Dichloropropene	24.2	5.00	ug/L	20.00		121	82-128	2.60	18	
1,2-Dibromoethane	19.2	5.00	ug/L	20.00		95.8	67-132	1.30	13	
1,2-Dichloroethane	20.7	1.00	ug/L	20.00		103	72-131	0.534	16	
1,2-Dichloropropane	21.0	1.00	ug/L	20.00		105	75-128	1.34	19	
1,3-Dichloropropane	19.6	1.00	ug/L	20.00		98.2	73-130	0.457	13	
2,2-Dichloropropane	22.2	1.00	ug/L	20.00		111	45-173	0.0903	25	
2-Butanone	71.4	10.0	ug/L	80.00		89.2	42-140	1.41	18	
2-Chlorotoluene	22.2	1.00	ug/L	20.00		111	76-126	0.360	20	
2-Hexanone	74.8	10.0	ug/L	80.00		93.5	18-178	2.99	17	
4-Chlorotoluene	20.2	1.00	ug/L	20.00		101	77-132	0.837	22	
4-Methyl-2-pentanone	76.4	10.0	ug/L	80.00		95.5	42-160	0.678	67	
Acetone	75.2	10.0	ug/L	80.00		94.0	30-173	5.08	24	
Acetonitrile	18.3	40.0	ug/L	20.00		91.6	58-150	5.99	25	
Acrylonitrile	18.5	10.0	ug/L	20.00		92.6	64-153	6.99	20	
Allyl chloride	23.0	1.00	ug/L	20.00		115	67-149	2.32	16	
Benzene	22.0	1.00	ug/L	20.00		110	77-126	0.594	19	
Bromobenzene	20.1	1.00	ug/L	20.00		101	72-131	1.53	20	
Bromochloromethane	19.3	1.00	ug/L	20.00		96.4	71-135	0.723	16	
Bromodichloromethane	21.3	1.00	ug/L	20.00		106	78-129	0.329	17	
Bromoform	18.4	1.00	ug/L	20.00		92.0	69-135	0.919	18	
Bromomethane	24.8	2.00	ug/L	20.00		124	14-193	2.19	28	
arbon Disulfide	30.2	5.00	ug/L	20.00		151	54-150	0.565	19	L
rbon Tetrachloride	23.2	1.00	ug/L	20.00		116	67-138	1.83	21	
Chlorobenzene	20.9	1.00	ug/L	20.00		105	77-125	0.383	19	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043112 - VOC PREP										
LCS Dup (1043112-BSD1)				Prepared & Analyzed: 10/15/10						
Chloroethane	22.0	1.00	ug/L	20.00		110	27-170	5.89	64	
Chloroform	21.8	1.00	ug/L	20.00		109	73-136	0.873	19	
Chloromethane	15.2	1.00	ug/L	20.00		75.8	44-145	2.86	26	
cis-1,2-Dichloroethene	21.5	1.00	ug/L	20.00		107	77-137	0.983	17	
cis-1,3-Dichloropropene	20.8	1.00	ug/L	20.00		104	70-133	0.862	19	
Dibromochloromethane	19.6	1.00	ug/L	20.00		98.2	68-131	0.760	18	
Dibromomethane	20.2	1.00	ug/L	20.00		101	74-129	0.346	16	
Dichlorodifluoromethane	15.4	2.00	ug/L	20.00		77.1	41-145	2.56	15	
Ethylbenzene	21.9	1.00	ug/L	20.00		109	79-126	0.643	20	
Iodomethane	23.3	10.0	ug/L	20.00		117	52-150	5.32	25	
Methylene Chloride	21.1	1.00	ug/L	20.00		106	43-162	1.18	28	B
Methyl tert-Butyl Ether	20.0	10.0	ug/L	20.00		100	63-134	0.150	20	
m,p-Xylene	44.9	2.00	ug/L	40.00		112	82-132	0.0891	18	
n-Hexane	27.9	5.00	ug/L	21.20		132	10-216	2.13	64	
o-Xylene	20.9	1.00	ug/L	20.00		105	81-128	0.477	19	
ene	21.1	1.00	ug/L	20.00		105	81-129	0.615	17	
trachloroethene	21.4	1.00	ug/L	20.00		107	43-152	0.563	29	
Toluene	21.3	1.00	ug/L	20.00		107	79-128	1.27	19	
trans-1,2-Dichloroethene	23.2	1.00	ug/L	20.00		116	60-144	0.388	20	
trans-1,3-Dichloropropene	21.9	1.00	ug/L	20.00		109	67-138	0.183	17	
Trichloroethene	21.4	1.00	ug/L	20.00		107	74-132	1.36	20	
Trichlorofluoromethane	23.2	2.00	ug/L	20.00		116	48-170	2.44	50	
Vinyl Chloride	19.7	1.00	ug/L	20.00		98.4	60-143	2.00	19	
Vinyl acetate	15.1	10.0	ug/L	20.00		75.4	16-196	0.199	45	
Surrogate: 4-Bromofluorobenzene	*48.5*		*ug/L*	*50.00*		*96.9*	*41-140*			
Surrogate: Dibromofluoromethane	*49.4*		*ug/L*	*50.00*		*98.9*	*34-158*			
Surrogate: Toluene-d8	*53.0*		*ug/L*	*50.00*		*106*	*47-147*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*ug/L*	*50.00*		*90.4*	*29-163*			

Notes and Definitions

O-01	This compound is a common laboratory contaminant.
L	Laboratory control sample recovery outside of acceptance limits high, sample results are below detection limits. Sample data is still acceptable.
B	Analyte is found in the associated blank as well as in the sample.

Sample preservation was met unless otherwise noted.

APPENDIX N

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10H0798	08/31/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 24th day of November, 2010.

Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Tuesday, August 31, 2010

Mike Luessen
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl 72.05876.0884 Work Order: 10H0798

Belmont Labs received 28 sample(s) on 8/13/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green

Holly Green
Project Manager

CLIENT: ATC Associates, Inc. Cincinnati Office
oject: Hudepohl 72.05876.0884

Lab Order: 10H0798

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10H0798-01A	P-1	8/12/2010 9:36:00AM	8/13/2010
10H0798-02A	P-2	8/12/2010 9:40:00AM	8/13/2010
10H0798-03A	P-3	8/12/2010 9:45:00AM	8/13/2010
10H0798-04A	P-4	8/12/2010 9:49:00AM	8/13/2010
10H0798-05A	P-5	8/12/2010 9:54:00AM	8/13/2010
10H0798-06A	P-6	8/12/2010 10:20:00AM	8/13/2010
10H0798-07A	P-7	8/12/2010 10:24:00AM	8/13/2010
10H0798-08A	P-8	8/12/2010 10:28:00AM	8/13/2010
10H0798-09A	P-9	8/12/2010 10:35:00AM	8/13/2010
10H0798-10A	P-10	8/12/2010 10:48:00AM	8/13/2010
10H0798-11A	P-11	8/12/2010 10:44:00AM	8/13/2010
10H0798-12A	P-12	8/12/2010 11:00:00AM	8/13/2010
10H0798-13A	P-13	8/12/2010 11:02:00AM	8/13/2010
10H0798-14A	P-14	8/12/2010 11:07:00AM	8/13/2010
10H0798-15A	P-15	8/12/2010 11:20:00AM	8/13/2010
10H0798-16A	P-16	8/12/2010 11:23:00AM	8/13/2010
10H0798-17A	P-17	8/12/2010 11:26:00AM	8/13/2010
10H0798-18A	P-18	8/12/2010 11:35:00AM	8/13/2010
10H0798-19A	P-19	8/12/2010 11:40:00AM	8/13/2010
10H0798-20A	P-20	8/12/2010 12:28:00PM	8/13/2010
10H0798-21A	P-21	8/12/2010 12:34:00PM	8/13/2010
10H0798-22A	P-22	8/12/2010 12:37:00PM	8/13/2010
10H0798-23A	P-23	8/12/2010 12:45:00PM	8/13/2010
10H0798-24A	P-24	8/12/2010 12:41:00PM	8/13/2010
10H0798-25A	P-25	8/12/2010 12:50:00PM	8/13/2010
10H0798-26A	P-26	8/12/2010 1:01:00PM	8/13/2010
10H0798-27A	P-27	8/12/2010 1:06:00PM	8/13/2010
10H0798-28A	P-28	8/12/2010 1:12:00PM	8/13/2010

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-01 **Collection Date:** 8/12/2010 9:36:00AM
Client Sample ID: P-1 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 7:56:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 7:56:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 7:56:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 7:56:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 7:56:00PM
Aroclor 1254	**1.05**	0.500		ug/Wipe	1	1034060	8/27/2010 3:23:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 7:56:00PM
Surrogate: Decachlorobiphenyl	*66.0 %*			*56-142*		*1034060*	8/25/2010 7:56:00PM
Surrogate: Tetrachloro-m-xylene	*50.0 %*			*30-107*		*1034060*	8/25/2010 7:56:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-02 **Collection Date:** 8/12/2010 9:40:00AM
Client Sample ID: P-2 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:19:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:19:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:19:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:19:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:19:00PM
Aroclor 1254	**1.02**	0.500		ug/Wipe	1	1034060	8/27/2010 3:46:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:19:00PM
Surrogate: Decachlorobiphenyl	*83.0 %*			*56-142*		*1034060*	8/25/2010 8:19:00PM
Surrogate: Tetrachloro-m-xylene	*61.0 %*			*30-107*		*1034060*	8/25/2010 8:19:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-03 **Collection Date:** 8/12/2010 9:45:00AM
Client Sample ID: P-3 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:41:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:41:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:41:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:41:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 8:41:00PM
Aroclor 1254	**1.53**	0.500		ug/Wipe	1	1034060	8/27/2010 4:09:00PM
Aroclor 1260	**1.86**	0.500		ug/Wipe	1	1034060	8/25/2010 8:41:00PM
Surrogate: Decachlorobiphenyl	*83.0 %*			*56-142*		*1034060*	8/25/2010 8:41:00PM
Surrogate: Tetrachloro-m-xylene	*81.0 %*			*30-107*		*1034060*	8/25/2010 8:41:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-04 **Collection Date:** 8/12/2010 9:49:00AM
Client Sample ID: P-4 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:04:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:04:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:04:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:04:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:04:00PM
Aroclor 1254	**5.54**	0.500		ug/Wipe	1	1034060	8/27/2010 4:32:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:04:00PM
Surrogate: Decachlorobiphenyl	*52.0 %*		*S-04*	*56-142*		*1034060*	8/25/2010 9:04:00PM
Surrogate: Tetrachloro-m-xylene	*40.0 %*			*30-107*		*1034060*	8/25/2010 9:04:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-05 **Collection Date:** 8/12/2010 9:54:00AM
Client Sample ID: P-5 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:27:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:27:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:27:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:27:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:27:00PM
Aroclor 1254	**11.4**	0.500		ug/Wipe	1	1034060	8/27/2010 4:55:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:27:00PM
Surrogate: Decachlorobiphenyl	*54.0 %*		*S-04*	*56-142*		*1034060*	8/25/2010 9:27:00PM
Surrogate: Tetrachloro-m-xylene	*64.0 %*			*30-107*		*1034060*	8/25/2010 9:27:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-06 **Collection Date:** 8/12/2010 10:20:00AM
Client Sample ID: P-6 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:50:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:50:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:50:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:50:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:50:00PM
Aroclor 1254	**3.70**	0.500		ug/Wipe	1	1034060	8/27/2010 5:17:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 9:50:00PM
Surrogate: Decachlorobiphenyl	*66.0 %*			*56-142*		*1034060*	8/25/2010 9:50:00PM
Surrogate: Tetrachloro-m-xylene	*71.0 %*			*30-107*		*1034060*	8/25/2010 9:50:00PM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-07 **Collection Date:** 8/12/2010 10:24:00AM
Client Sample ID: P-7 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:12:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:12:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:12:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:12:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:12:00PM
Aroclor 1254	**16.4**	0.500		ug/Wipe	1	1034060	8/27/2010 5:40:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:12:00PM
Surrogate: Decachlorobiphenyl	*47.0 %*		*S-04*	*56-142*		*1034060*	8/25/2010 10:12:00PM
Surrogate: Tetrachloro-m-xylene	*38.0 %*			*30-107*		*1034060*	8/25/2010 10:12:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-08 **Collection Date:** 8/12/2010 10:28:00AM
Client Sample ID: P-8 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:35:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:35:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:35:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:35:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:35:00PM
Aroclor 1254	**2.72**	0.500		ug/Wipe	1	1034060	8/27/2010 6:03:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:35:00PM
Surrogate: Decachlorobiphenyl	*117 %*			*56-142*		*1034060*	8/25/2010 10:35:00PM
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*30-107*		*1034060*	8/25/2010 10:35:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-09 **Collection Date:** 8/12/2010 10:35:00AM
Client Sample ID: P-9 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 10:58:00PM
Surrogate: Decachlorobiphenyl	*61.0 %*			*56-142*		*1034060*	8/25/2010 10:58:00PM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*30-107*		*1034060*	8/25/2010 10:58:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-10 **Collection Date:** 8/12/2010 10:48:00AM
Client Sample ID: P-10 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:21:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:21:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:21:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:21:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:21:00PM
Aroclor 1254	**218**	5.00		ug/Wipe	10	1034060	8/30/2010 12:55:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:21:00PM
Surrogate: Decachlorobiphenyl	*58.0 %*			*56-142*		*1034060*	8/25/2010 11:21:00PM
Surrogate: Tetrachloro-m-xylene	*44.0 %*			*30-107*		*1034060*	8/25/2010 11:21:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-11 **Collection Date:** 8/12/2010 10:44:00AM
Client Sample ID: P-11 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:44:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:44:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:44:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:44:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:44:00PM
Aroclor 1254	**18.5**	0.500		ug/Wipe	1	1034060	8/30/2010 1:17:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/25/2010 11:44:00PM
Surrogate: Decachlorobiphenyl	*25.0 %*		*S-04*	*56-142*		*1034060*	8/25/2010 11:44:00PM
Surrogate: Tetrachloro-m-xylene	*41.0 %*			*30-107*		*1034060*	8/25/2010 11:44:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-12 **Collection Date:** 8/12/2010 11:00:00AM
Client Sample ID: P-12 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:06:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:06:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:06:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:06:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:06:00AM
Aroclor 1254	**7.39**	0.500		ug/Wipe	1	1034060	8/30/2010 1:40:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:06:00AM
Surrogate: Decachlorobiphenyl	*66.0 %*			*56-142*		*1034060*	8/26/2010 12:06:00AM
Surrogate: Tetrachloro-m-xylene	*65.0 %*			*30-107*		*1034060*	8/26/2010 12:06:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-13 **Collection Date:** 8/12/2010 11:02:00AM
Client Sample ID: P-13 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:29:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:29:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:29:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:29:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:29:00AM
Aroclor 1254	0.650	0.500		ug/Wipe	1	1034060	8/30/2010 2:03:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 12:29:00AM
Surrogate: Decachlorobiphenyl	*58.0 %*			*56-142*		*1034060*	8/26/2010 12:29:00AM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*30-107*		*1034060*	8/26/2010 12:29:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-14 **Collection Date:** 8/12/2010 11:07:00AM
Client Sample ID: P-14 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:15:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:15:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:15:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:15:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:15:00AM
Aroclor 1254	**14.2**	5.00		ug/Wipe	10	1034060	8/30/2010 10:51:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:15:00AM
Surrogate: Decachlorobiphenyl	*64.0 %*			*56-142*		*1034060*	8/26/2010 1:15:00AM
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*30-107*		*1034060*	8/26/2010 1:15:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-15 **Collection Date:** 8/12/2010 11:20:00AM
Client Sample ID: P-15 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:38:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:38:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:38:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:38:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:38:00AM
Aroclor 1254	**13.6**	5.00		ug/Wipe	10	1034060	8/30/2010 2:26:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 1:38:00AM
Surrogate: Decachlorobiphenyl	*65.0 %*			*56-142*		*1034060*	8/26/2010 1:38:00AM
Surrogate: Tetrachloro-m-xylene	*78.0 %*			*30-107*		*1034060*	8/26/2010 1:38:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-16 **Collection Date:** 8/12/2010 11:23:00AM
Client Sample ID: P-16 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:01:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:01:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:01:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:01:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:01:00AM
Aroclor 1254	**2.25**	0.500		ug/Wipe	1	1034060	8/30/2010 2:48:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:01:00AM
Surrogate: Decachlorobiphenyl	*72.0 %*			*56-142*		*1034060*	8/26/2010 2:01:00AM
Surrogate: Tetrachloro-m-xylene	*82.0 %*			*30-107*		*1034060*	8/26/2010 2:01:00AM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-17 **Collection Date:** 8/12/2010 11:26:00AM
Client Sample ID: P-17 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:23:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:23:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:23:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:23:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:23:00AM
Aroclor 1254	**33.7**	5.00		ug/Wipe	10	1034060	8/30/2010 3:11:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:23:00AM
Surrogate: Decachlorobiphenyl	*34.0 %*		*S-04*	*56-142*		*1034060*	8/26/2010 2:23:00AM
Surrogate: Tetrachloro-m-xylene	*24.0 %*		*S-04*	*30-107*		*1034060*	8/26/2010 2:23:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-18 **Collection Date:** 8/12/2010 11:35:00AM
Client Sample ID: P-18 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:46:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:46:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:46:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:46:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:46:00AM
Aroclor 1254	**2.42**	0.500		ug/Wipe	1	1034060	8/30/2010 3:34:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 2:46:00AM
Surrogate: Decachlorobiphenyl	*76.0 %*			*56-142*		*1034060*	8/26/2010 2:46:00AM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*30-107*		*1034060*	8/26/2010 2:46:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-19 **Collection Date:** 8/12/2010 11:40:00AM
Client Sample ID: P-19 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:09:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:09:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:09:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:09:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:09:00AM
Aroclor 1254	BDL	5.00		ug/Wipe	10	1034060	8/30/2010 3:57:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:09:00AM
Surrogate: Decachlorobiphenyl	*62.0 %*			*56-142*		*1034060*	8/26/2010 3:09:00AM
Surrogate: Tetrachloro-m-xylene	*69.0 %*			*30-107*		*1034060*	8/26/2010 3:09:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-20 **Collection Date:** 8/12/2010 12:28:00PM
Client Sample ID: P-20 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:32:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:32:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:32:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:32:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:32:00AM
Aroclor 1254	**1.73**	0.500		ug/Wipe	1	1034060	8/30/2010 11:14:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034060	8/26/2010 3:32:00AM
Surrogate: Decachlorobiphenyl	*141 %*			*56-142*		*1034060*	8/26/2010 3:32:00AM
Surrogate: Tetrachloro-m-xylene	*74.0 %*			*30-107*		*1034060*	8/26/2010 3:32:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-21 **Collection Date:** 8/12/2010 12:34:00PM
Client Sample ID: P-21 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 3:05:00AM
Surrogate: Decachlorobiphenyl	*58.0 %*			*56-142*		*1034061*	8/27/2010 3:05:00AM
Surrogate: Tetrachloro-m-xylene	*48.0 %*			*30-107*		*1034061*	8/27/2010 3:05:00AM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-22 **Collection Date:** 8/12/2010 12:37:00PM
Client Sample ID: P-22 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:42:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:42:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:42:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:42:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:42:00AM
Aroclor 1254	**2.35**	0.500		ug/Wipe	1	1034061	8/30/2010 10:05:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:42:00AM
Surrogate: Decachlorobiphenyl	*68.0 %*			*56-142*		*1034061*	8/27/2010 2:42:00AM
Surrogate: Tetrachloro-m-xylene	*90.0 %*			*30-107*		*1034061*	8/27/2010 2:42:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-23 **Collection Date:** 8/12/2010 12:45:00PM
Client Sample ID: P-23 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 2:19:00AM
Surrogate: Decachlorobiphenyl	*52.0 %*		*S-04*	*56-142*		*1034061*	8/27/2010 2:19:00AM
Surrogate: Tetrachloro-m-xylene	*78.0 %*			*30-107*		*1034061*	8/27/2010 2:19:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-24 **Collection Date:** 8/12/2010 12:41:00PM
Client Sample ID: P-24 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:56:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:56:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:56:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:56:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:56:00AM
Aroclor 1254	**3.63**	0.500		ug/Wipe	1	1034061	8/30/2010 9:43:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:56:00AM
Surrogate: Decachlorobiphenyl	*68.0 %*			*56-142*		*1034061*	8/27/2010 1:56:00AM
Surrogate: Tetrachloro-m-xylene	*98.0 %*			*30-107*		*1034061*	8/27/2010 1:56:00AM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-25 **Collection Date:** 8/12/2010 12:50:00PM
Client Sample ID: P-25 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:33:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:33:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:33:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:33:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:33:00AM
Aroclor 1254	**3.67**	0.500		ug/Wipe	1	1034061	8/30/2010 9:20:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:33:00AM
Surrogate: Decachlorobiphenyl	*68.0 %*			*56-142*		*1034061*	8/27/2010 1:33:00AM
Surrogate: Tetrachloro-m-xylene	*92.0 %*			*30-107*		*1034061*	8/27/2010 1:33:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-26 **Collection Date:** 8/12/2010 1:01:00PM
Client Sample ID: P-26 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 1:11:00AM
Surrogate: Decachlorobiphenyl	*63.0 %*			*56-142*		*1034061*	8/27/2010 1:11:00AM
Surrogate: Tetrachloro-m-xylene	*46.0 %*			*30-107*		*1034061*	8/27/2010 1:11:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-27 **Collection Date:** 8/12/2010 1:06:00PM
Client Sample ID: P-27 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:48:00AM
Surrogate: Decachlorobiphenyl	*61.0 %*			*56-142*		*1034061*	8/27/2010 12:48:00AM
Surrogate: Tetrachloro-m-xylene	*45.0 %*			*30-107*		*1034061*	8/27/2010 12:48:00AM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0798
Project: Hudepohl 72.05876.0884

Lab ID: 10H0798-28 **Collection Date:** 8/12/2010 1:12:00PM
Client Sample ID: P-28 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1034061	8/27/2010 12:25:00AM
Surrogate: Decachlorobiphenyl	*87.0 %*			*56-142*		*1034061*	8/27/2010 12:25:00AM
Surrogate: Tetrachloro-m-xylene	*87.0 %*			*30-107*		*1034061*	8/27/2010 12:25:00AM

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

Internal Lab Order Number 10HD798

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 1121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No: 513-771-2112 Fax No: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No
Fax Results ☐
Special Instructions:
Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 HNO3, HCl, H2SO4, Ice, None, Other	PAH 8270 HNO3, HCl, H2SO4, Ice, None, Other	PCB 8082 HNO3, HCl, H2SO4, Ice, None, Other	TPH 8015 C6-C12 HNO3, HCl, H2SO4, Ice, None, Other	TPH C10-C20 TPH C20-C34 8015 HNO3, HCl, H2SO4, Ice, None, Other	RCRA Metals 6010/7470 HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
P-1	8-12-10	0936		X	Wipe	1			X						
P-2		0940		X		1			X						
P-3		0945		X		1			X						
P-4		0949		X		1			X						
P-5		0954		X		1			X						
P-6		1020		X		1			X						
P-7		1024		X		1			X						
P-8		1028		X		1			X						
P-9		1035		X		1			X						
P-10		1048		X	V	1			X						

CHAIN OF CUSTODY (if required)

Relinquished by: Michael Bossert Date/Time 8/13/10 0840 Received by: [signature] Date/Time 8/13/10 0840
Relinquished by: [signature] Date/Time 8/13/10 1045 Received ~~at lab~~ by: [signature] 8-13-10 Date/Time 1253
Method of Shipment: Courier Cooler Temp. 2.1 °C Custody Seals ☒ Yes ☐ No 8-13-10 1430
Sampled by: Michael Bossert Date
Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST
CHAIN OF CUSTODY

Internal Lab Order Number _____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers (10)	VOA 8260 (HNO3, HCl, H2SO4, Ice, None, Other)	PAH 8270 (HNO3, HCl, H2SO4, Ice, None, Other)	PCB 8082 (HNO3, HCl, H2SO4, Ice, None, Other)	TPH 8015 C6-C12 (HNO3, HCl, H2SO4, Ice, None, Other)	TPH C10-C20 TPH C20-C34 8015 (HNO3, HCl, H2SO4, Ice, None, Other)	RCRA Metals 6010/7470 (HNO3, HCl, H2SO4, Ice, None, Other)			Lab Only
P-11	8-12-10	1044		X	wipe	1			X						
P-12		1100		X		1			X						
P-13		1102		X		1			X						
P-14		1107		X		1			X						
P-15		1120		X		1			X						
P-16		1123		X		1			X						
P-17		1126		X		1			X						
P-18		1135		X		1			X						
P-19		1140		X		1			X						
P-20		1228		X		1			X						

CHAIN OF CUSTODY (if required)
Relinquished by: Michael B Bossert Date/Time 8/13/10 0840 Received by: William A Norris Date/Time 8/13/10 0840
Relinquished by: William A Norris Date/Time 8/13/10 1045 Received ~~at lab~~ by: D J Charek 8-13-10 Date/Time 1233
Method of Shipment: courier Cooler Temp. 2.1°C Custody Seals ☒ Yes ☐ No
D J Charek 8-13-10 1430
Client Comments

Sampled by: Michael Bossert Date _____

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST
CHAIN OF CUSTODY

Internal Lab Order Number _____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected In State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers 8	VOA 8260 (HNO3, HCl, H2SO4, Ice, None, Other)	PAH 8270 (HNO3, HCl, H2SO4, Ice, None, Other)	PCB 8082 (HNO3, HCl, H2SO4, Ice, None, Other)	TPH 8015 C6-C12 (HNO3, HCl, H2SO4, Ice, None, Other)	TPH C10-C20 TPH C20-C34 8015 (HNO3, HCl, H2SO4, Ice, None, Other)	RCRA Metals 6010/7470 (HNO3, HCl, H2SO4, Ice, None, Other)			Lab Only
P-21	8-12-10	1234		X	Wipe	1			X						
P-22		1237		X		1			X						
P-23		1245		X		1			X						
P-24		1241		X		1			X						
P-25		1250		X		1			X						
P-26		1301		X		1			X						
P-27		1306		X		1			X						
P-28		1312		X		1			X						

CHAIN OF CUSTODY (if required)
Relinquished by: Michael Bossert Date/Time 8/13/10 0840 Received by: William A Morris Date/Time ~~8/13~~ 8/13/10 0840
Relinquished by: William A Morris Date/Time 8/13/10 1045 Received ~~at lab by~~: [signature] Date/Time 8-13-10 1233
Method of Shipment: Courier Cooler Temp. 2.1°C Custody Seals ☒ Yes ☐ No
[signature] 8-13-10 1430
Client Comments

Sampled by: Michael Bossert Date _____

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1034060 - PREP_PP_WIPE										
Blank (1034060-BLK1)				Prepared: 08/17/10 Analyzed: 08/25/10						
Aroclor 1016	BDL	0.500	ug/Wipe							
Aroclor 1221	BDL	0.500	ug/Wipe							
Aroclor 1232	BDL	0.500	ug/Wipe							
Aroclor 1242	BDL	0.500	ug/Wipe							
Aroclor 1248	BDL	0.500	ug/Wipe							
Aroclor 1254	BDL	0.500	ug/Wipe							
Aroclor 1260	BDL	0.500	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.670*		*ug/Wipe*	*1.000*		*67.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.710*		*ug/Wipe*	*1.000*		*71.0*	*30-107*			
LCS (1034060-BS1)				Prepared: 08/17/10 Analyzed: 08/25/10						
Aroclor 1016	7.68	0.500	ug/Wipe	10.00		76.8	74-124			
Aroclor 1260	9.24	0.500	ug/Wipe	10.00		92.4	87-139			
Surrogate: Decachlorobiphenyl	*0.760*		*ug/Wipe*	*1.000*		*76.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.590*		*ug/Wipe*	*1.000*		*59.0*	*30-107*			
CS Dup (1034060-BSD1)				Prepared: 08/17/10 Analyzed: 08/25/10						
Aroclor 1016	7.50	0.500	ug/Wipe	10.00		75.0	74-124	2.37	24	
Aroclor 1260	9.03	0.500	ug/Wipe	10.00		90.3	87-139	2.30	14	
Surrogate: Decachlorobiphenyl	*0.760*		*ug/Wipe*	*1.000*		*76.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.590*		*ug/Wipe*	*1.000*		*59.0*	*30-107*			
Batch 1034061 - PREP_PP_WIPE										
Blank (1034061-BLK1)				Prepared: 08/17/10 Analyzed: 08/25/10						
Aroclor 1016	BDL	0.500	ug/Wipe							
Aroclor 1221	BDL	0.500	ug/Wipe							
Aroclor 1232	BDL	0.500	ug/Wipe							
Aroclor 1242	BDL	0.500	ug/Wipe							
Aroclor 1248	BDL	0.500	ug/Wipe							
Aroclor 1254	BDL	0.500	ug/Wipe							
Aroclor 1260	BDL	0.500	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.800*		*ug/Wipe*	*1.000*		*80.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.760*		*ug/Wipe*	*1.000*		*76.0*	*30-107*			

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1034061 - PREP_PP_WIPE										
LCS (1034061-BS1)				Prepared: 08/17/10 Analyzed: 08/25/10						
Aroclor 1016	7.45	0.500	ug/Wipe	10.00		74.5	74-124			
Aroclor 1260	8.96	0.500	ug/Wipe	10.00		89.6	87-139			
Surrogate: Decachlorobiphenyl	*0.790*		*ug/Wipe*	*1.000*		*79.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.600*		*ug/Wipe*	*1.000*		*60.0*	*30-107*			
LCS Dup (1034061-BSD1)				Prepared: 08/17/10 Analyzed: 08/25/10						
Aroclor 1016	9.50	0.500	ug/Wipe	10.00		95.0	74-124	24.2	24	R
Aroclor 1260	9.15	0.500	ug/Wipe	10.00		91.5	87-139	2.10	14	
Surrogate: Decachlorobiphenyl	*0.690*		*ug/Wipe*	*1.000*		*69.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.580*		*ug/Wipe*	*1.000*		*58.0*	*30-107*			

CLIENT:	ATC Associates, Inc. Cincinnati Office	**Lab Order:**	10H0798
Project:	Hudepohl 72.05876.0884		

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R RPD outside of accepted recovery limits.

Sample preservation was met unless otherwise noted.

SEP 17 2010

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10H0962	08/31/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 15th day of September, 2010.

Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Tuesday, August 31, 2010

Bill Norris

ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241

TEL: (513) 771-2112

FAX (513) 782-6908

RE: Hudepohl Brewery-72.05876.0884 Work Order: 10H0962

Belmont Labs received 12 sample(s) on 8/18/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green

Holly Green
Project Manager

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10H0962-01A	P-29	8/16/2010 8:35:00AM	8/18/2010
10H0962-02A	P-30	8/16/2010 8:43:00AM	8/18/2010
10H0962-03A	P-31	8/16/2010 8:58:00AM	8/18/2010
10H0962-04A	P-32	8/16/2010 9:32:00AM	8/18/2010
10H0962-05A	P-33	8/16/2010 9:37:00AM	8/18/2010
10H0962-06A	P-34	8/16/2010 9:43:00AM	8/18/2010
10H0962-07A	P-35	8/16/2010 9:48:00AM	8/18/2010
10H0962-08A	P-36	8/16/2010 10:12:00AM	8/18/2010
10H0962-09A	P-37	8/16/2010 10:18:00AM	8/18/2010
10H0962-10A	P-38	8/16/2010 10:22:00AM	8/18/2010
10H0962-11A	P-39	8/16/2010 10:25:00AM	8/18/2010
10H0962-12A	P-40	8/16/2010 4:40:00PM	8/18/2010

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-01 **Collection Date:** 8/16/2010 8:35:00AM
Client Sample ID: P-29 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 6:43:00PM
Surrogate: Decachlorobiphenyl	*105 %*			*56-142*		*1035043*	8/26/2010 6:43:00PM
Surrogate: Tetrachloro-m-xylene	*47.0 %*			*30-107*		*1035043*	8/26/2010 6:43:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-02 **Collection Date:** 8/16/2010 8:43:00AM
Client Sample ID: P-30 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:06:00PM
Surrogate: Decachlorobiphenyl	*81.0 %*			*56-142*		*1035043*	8/26/2010 7:06:00PM
Surrogate: Tetrachloro-m-xylene	*51.0 %*			*30-107*		*1035043*	8/26/2010 7:06:00PM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-03 **Collection Date:** 8/16/2010 8:58:00AM
Client Sample ID: P-31 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:29:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:29:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:29:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:29:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:29:00PM
Aroclor 1254	**0.930**	0.500		ug/Wipe	1	1035043	8/30/2010 6:17:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:29:00PM
Surrogate: Decachlorobiphenyl	*103 %*			*56-142*		*1035043*	8/26/2010 7:29:00PM
Surrogate: Tetrachloro-m-xylene	*48.0 %*			*30-107*		*1035043*	8/26/2010 7:29:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-04 **Collection Date:** 8/16/2010 9:32:00AM
Client Sample ID: P-32 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:51:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:51:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:51:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:51:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:51:00PM
Aroclor 1254	**2.61**	0.500		ug/Wipe	1	1035043	8/30/2010 6:40:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 7:51:00PM
Surrogate: Decachlorobiphenyl	*60.0 %*			*56-142*		*1035043*	8/26/2010 7:51:00PM
Surrogate: Tetrachloro-m-xylene	*106 %*			*30-107*		*1035043*	8/26/2010 7:51:00PM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-05 **Collection Date:** 8/16/2010 9:37:00AM
Client Sample ID: P-33 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:14:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:14:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:14:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:14:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:14:00PM
Aroclor 1254	**12.2**	0.500		ug/Wipe	1	1035043	8/30/2010 7:03:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:14:00PM
Surrogate: Decachlorobiphenyl	*64.0 %*			*56-142*		*1035043*	8/26/2010 8:14:00PM
Surrogate: Tetrachloro-m-xylene	*78.0 %*			*30-107*		*1035043*	8/26/2010 8:14:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-06 **Collection Date:** 8/16/2010 9:43:00AM
Client Sample ID: P-34 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 8:37:00PM
Surrogate: Decachlorobiphenyl	*257 %*		*S-04*	*56-142*		*1035043*	8/26/2010 8:37:00PM
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*30-107*		*1035043*	8/26/2010 8:37:00PM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-07 **Collection Date:** 8/16/2010 9:48:00AM
Client Sample ID: P-35 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 9:00:00PM
Surrogate: Decachlorobiphenyl	*62.0 %*			*56-142*		*1035043*	8/26/2010 9:00:00PM
Surrogate: Tetrachloro-m-xylene	*39.0 %*			*30-107*		*1035043*	8/26/2010 9:00:00PM

Belmont Labs **Date:** 8/31/2010

_IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-08 **Collection Date:** 8/16/2010 10:12:00AM
Client Sample ID: P-36 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:08:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:08:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:08:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:08:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:08:00PM
Aroclor 1254	**3.97**	0.500		ug/Wipe	1	1035043	8/30/2010 7:26:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:08:00PM
Surrogate: Decachlorobiphenyl	*71.0 %*			*56-142*		*1035043*	8/26/2010 10:08:00PM
Surrogate: Tetrachloro-m-xylene	*79.0 %*			*30-107*		*1035043*	8/26/2010 10:08:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-09 **Collection Date:** 8/16/2010 10:18:00AM
Client Sample ID: P-37 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:31:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:31:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:31:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:31:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:31:00PM
Aroclor 1254	**32.8**	0.500		ug/Wipe	1	1035043	8/30/2010 7:48:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:31:00PM
Surrogate: Decachlorobiphenyl	*64.0 %*			*56-142*		*1035043*	8/26/2010 10:31:00PM
Surrogate: Tetrachloro-m-xylene	*44.0 %*			*30-107*		*1035043*	8/26/2010 10:31:00PM

Belmont Labs **Date:** 8/31/2010

LIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-10 **Collection Date:** 8/16/2010 10:22:00AM
Client Sample ID: P-38 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:54:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:54:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:54:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:54:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:54:00PM
Aroclor 1254	**2.38**	0.500		ug/Wipe	1	1035043	8/30/2010 8:11:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 10:54:00PM
Surrogate: Decachlorobiphenyl	*59.0 %*			*56-142*		*1035043*	8/26/2010 10:54:00PM
Surrogate: Tetrachloro-m-xylene	*45.0 %*			*30-107*		*1035043*	8/26/2010 10:54:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-11 **Collection Date:** 8/16/2010 10:25:00AM
Client Sample ID: P-39 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:16:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:16:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:16:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:16:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:16:00PM
Aroclor 1254	**1.70**	0.500		ug/Wipe	1	1035043	8/30/2010 8:34:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:16:00PM
Surrogate: Decachlorobiphenyl	*62.0 %*			*56-142*		*1035043*	8/26/2010 11:16:00PM
Surrogate: Tetrachloro-m-xylene	*47.0 %*			*30-107*		*1035043*	8/26/2010 11:16:00PM

Belmont Labs **Date:** 8/31/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10H0962
Project: Hudepohl Brewery-72.05876.0884

Lab ID: 10H0962-12 **Collection Date:** 8/16/2010 4:40:00PM
Client Sample ID: P-40 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:39:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:39:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:39:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:39:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:39:00PM
Aroclor 1254	**0.830**	0.500		ug/Wipe	1	1035043	8/30/2010 8:57:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1035043	8/26/2010 11:39:00PM
Surrogate: Decachlorobiphenyl	*66.0 %*			*56-142*		*1035043*	8/26/2010 11:39:00PM
Surrogate: Tetrachloro-m-xylene	*52.0 %*			*30-107*		*1035043*	8/26/2010 11:39:00PM

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST
CHAIN OF CUSTODY

Internal Lab Order Number 1DH0960

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No: 513-771-2112 Fax No: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
[Enter an "X" in the box below to indicate request and circle preservative]

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	PAH 8270 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	PCB 8082 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	TPH 8015 C6-C12 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	TPH C10-C20 TPH C20-C34 8015 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	RCRA Metals 6010/7470 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	(HNO_3, HCl, H_2SO_4, Ice, None, Other)	(HNO_3, HCl, H_2SO_4, Ice, None, Other)	Lab Only
P-29	8/16/10	0835		X	Wipe	1			X						
P-30		0843		X		1			X						
P-31		0858		X		1			X						
P-32		0932		X		1			X						
P-33		0937		X		1			X						
P-34		0943		X		1			X						
P-35		0948		X		1			X						
P-36		1012		X		1			X						
P-37		1018		X		1			X						
P-38		1022		X		1			X						

12

CHAIN OF CUSTODY (if required)
Relinquished by: Michael J Bossert Date/Time 8/17/10 1715 Received by: William A Norris Date/Time 8/17/10 1800
Relinquished by: Date/Time Received at lab by: [signature] Date/Time 8-18-10 8:50
Method of Shipment: Fed Ex #7938 3132 0177 Cooler Temp. 3.1 Custody Seals ☒ Yes ☐ No

Sampled by: Michael Bossert / Bill Norris Date 8/16/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST
CHAIN OF CUSTODY

Internal Lab Order Number _____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	PAH 8270 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	PCB 8082 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	TPH 8015 C6-C12 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	TPH C10-C20 TPH C20-C34 8015 (HNO_3, HCl, H_2SO_4, Ice, None, Other)	RCRA Metals 6010/7470 (HNO_3, HCl, H_2SO_4, Ice, None, Other)			Lab Only
P-39	8/16/10	1025		X	Wipe	1			X						
P-40	8/16/10	1640		X	Wipe	1			X						

CHAIN OF CUSTODY (if required)
Relinquished by: [signature] Date/Time 8/17/10 1715 Received by: [signature] Date/Time 8/17/10 1800
Relinquished by: Date/Time Received at lab by: Date/Time
Method of Shipment: Fed Ex #7938 3132 0177 Cooler Temp. Custody Seals ☐ Yes ☐ No

[redacted] Date 8/16/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B Litho-Form #9786-5/02

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1035043 - PREP_PP_WIPE										
Blank (1035043-BLK1)				Prepared: 08/23/10 Analyzed: 08/26/10						
Aroclor 1016	BDL	0.500	ug/Wipe							
Aroclor 1221	BDL	0.500	ug/Wipe							
Aroclor 1232	BDL	0.500	ug/Wipe							
Aroclor 1242	BDL	0.500	ug/Wipe							
Aroclor 1248	BDL	0.500	ug/Wipe							
Aroclor 1254	BDL	0.500	ug/Wipe							
Aroclor 1260	BDL	0.500	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.930*		*ug/Wipe*	*1.000*		*93.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.480*		*ug/Wipe*	*1.000*		*48.0*	*30-107*			
LCS (1035043-BS1)				Prepared: 08/23/10 Analyzed: 08/26/10						
Aroclor 1016	11.5	0.500	ug/Wipe	10.00		115	74-124			
Aroclor 1260	9.91	0.500	ug/Wipe	10.00		99.1	87-139			
Surrogate: Decachlorobiphenyl	*0.890*		*ug/Wipe*	*1.000*		*89.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.940*		*ug/Wipe*	*1.000*		*94.0*	*30-107*			
LCS Dup (1035043-BSD1)				Prepared: 08/23/10 Analyzed: 08/26/10						
Aroclor 1016	9.24	0.500	ug/Wipe	10.00		92.4	74-124	21.8	24	
Aroclor 1260	9.14	0.500	ug/Wipe	10.00		91.4	87-139	8.08	14	
Surrogate: Decachlorobiphenyl	*0.720*		*ug/Wipe*	*1.000*		*72.0*	*56-142*			
Surrogate: Tetrachloro-m-xylene	*0.760*		*ug/Wipe*	*1.000*		*76.0*	*30-107*			

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

Sample preservation was met unless otherwise noted.

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10l1495	10/13/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Holly Green
Affiant Signature

Sworn to before me this 14th day of October, 2010.

Vanessa L. Heslep
Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Wednesday, October 13, 2010
Analytical Results

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl 72.05876.0884 Work Order: 10I1495

Belmont Labs received 46 sample(s) on 9/29/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green
Project Manager

Certifications: NELAP/NELAC - #04130 VAP - #CL0032
Ohio EPA Drinking water - #836 Ohio EPA Drinking water (Micro) - #872

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
oject: Hudepohl 72.05876.0884

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10I1495-01A	P-41	9/28/2010 12:00:00AM	9/29/2010
10I1495-02A	P-42	9/28/2010 12:00:00AM	9/29/2010
10I1495-03A	P-43	9/28/2010 12:00:00AM	9/29/2010
10I1495-04A	P-44	9/28/2010 12:00:00AM	9/29/2010
10I1495-05A	P-45	9/28/2010 12:00:00AM	9/29/2010
10I1495-06A	P-46	9/28/2010 12:00:00AM	9/29/2010
10I1495-07A	P-47	9/28/2010 12:00:00AM	9/29/2010
10I1495-08A	P-48	9/28/2010 12:00:00AM	9/29/2010
10I1495-09A	P-49	9/28/2010 12:00:00AM	9/29/2010
10I1495-10A	P-50	9/28/2010 12:00:00AM	9/29/2010
10I1495-11A	P-51	9/28/2010 12:00:00AM	9/29/2010
10I1495-12A	P-52	9/28/2010 12:00:00AM	9/29/2010
10I1495-13A	P-53	9/28/2010 12:00:00AM	9/29/2010
10I1495-14A	P-54	9/28/2010 12:00:00AM	9/29/2010
10I1495-15A	P-55	9/28/2010 12:00:00AM	9/29/2010
10I1495-16A	P-56	9/28/2010 12:00:00AM	9/29/2010
10I1495-17A	P-57	9/28/2010 12:00:00AM	9/29/2010
10I1495-18A	P-58	9/28/2010 12:00:00AM	9/29/2010
10I1495-19A	P-59	9/28/2010 12:00:00AM	9/29/2010
10I1495-20A	P-60	9/28/2010 12:00:00AM	9/29/2010
10I1495-21A	P-61	9/28/2010 12:00:00AM	9/29/2010
10I1495-22A	P-62	9/28/2010 12:00:00AM	9/29/2010
10I1495-23A	P-63	9/28/2010 12:00:00AM	9/29/2010
10I1495-24A	P-64	9/28/2010 12:00:00AM	9/29/2010
10I1495-25A	P-65	9/28/2010 12:00:00AM	9/29/2010
10I1495-26A	P-66	9/28/2010 12:00:00AM	9/29/2010
10I1495-27A	67	9/28/2010 12:00:00AM	9/29/2010
10I1495-28A	68	9/28/2010 12:00:00AM	9/29/2010
10I1495-29A	69	9/28/2010 12:00:00AM	9/29/2010
10I1495-30A	70	9/28/2010 12:00:00AM	9/29/2010
10I1495-31A	71	9/28/2010 12:00:00AM	9/29/2010
10I1495-32A	72	9/28/2010 12:00:00AM	9/29/2010
10I1495-33A	73	9/28/2010 12:00:00AM	9/29/2010

IENT:	ATC Associates, Inc. Cincinnati Office	**Lab Order:**	10I1495
.oject:	Hudepohl 72.05876.0884		

10I1495-34A	74	9/28/2010 12:00:00AM	9/29/2010
10I1495-35A	75	9/28/2010 12:00:00AM	9/29/2010
10I1495-36A	76	9/28/2010 12:00:00AM	9/29/2010
10I1495-37A	77	9/28/2010 12:00:00AM	9/29/2010
10I1495-38A	78	9/28/2010 12:00:00AM	9/29/2010
10I1495-39A	79	9/28/2010 12:00:00AM	9/29/2010
10I1495-40A	80	9/28/2010 12:00:00AM	9/29/2010
10I1495-41A	81	9/28/2010 12:00:00AM	9/29/2010
10I1495-42A	82	9/28/2010 12:00:00AM	9/29/2010
10I1495-43A	P-A	9/28/2010 12:00:00AM	9/29/2010
10I1495-44A	P-B	9/28/2010 12:00:00AM	9/29/2010
10I1495-45A	P-C	9/28/2010 12:00:00AM	9/29/2010
10I1495-46A	Blank 1	9/28/2010 12:00:00AM	9/29/2010

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
.oject: Hudepohl 72.05876.0884

Lab ID: 10I1495-01 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-41 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:28:00AM
Surrogate: Decachlorobiphenyl	*52.0 %*			*40-159*		*1040170*	10/10/2010 6:28:00AM
Surrogate: Tetrachloro-m-xylene	*51.0 %*			*47-125*		*1040170*	10/10/2010 6:28:00AM

Belmont Labs **Date:** 10/13/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-02 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-42 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 7:58:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 7:58:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 7:58:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 7:58:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 7:58:00AM
Aroclor 1254	**27.2**	0.500		ug/Wipe	1	1040170	10/7/2010 9:19:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 7:58:00AM
Surrogate: Decachlorobiphenyl	*55.0 %*			*40-159*		*1040170*	10/6/2010 7:58:00AM
Surrogate: Tetrachloro-m-xylene	*60.0 %*			*47-125*		*1040170*	10/6/2010 7:58:00AM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
oject: Hudepohl 72.05876.0884

Lab ID: 10I1495-03 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-43 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:10:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:10:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:10:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:10:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:10:00AM
Aroclor 1254	**17.5**	0.500		ug/Wipe	1	1040170	10/7/2010 9:43:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:10:00AM
Surrogate: Decachlorobiphenyl	*44.0 %*			*40-159*		*1040170*	10/6/2010 9:10:00AM
Surrogate: Tetrachloro-m-xylene	*56.0 %*			*47-125*		*1040170*	10/6/2010 9:10:00AM

Belmont Labs **Date:** 10/13/2010

'ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10l1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10l1495-04 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-44 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:34:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:34:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:34:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:34:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:34:00AM
Aroclor 1254	**10.3**	0.500		ug/Wipe	1	1040170	10/7/2010 10:07:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:34:00AM
Surrogate: Decachlorobiphenyl	*57.0 %*			*40-159*		*1040170*	10/6/2010 9:34:00AM
Surrogate: Tetrachloro-m-xylene	*55.0 %*			*47-125*		*1040170*	10/6/2010 9:34:00AM

Belmont Labs **Date:** 10/13/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 1011495
Project: Hudepohl 72.05876.0884

Lab ID: 1011495-05 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-45 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:58:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:58:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:58:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:58:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:58:00AM
Aroclor 1254	**5.48**	0.500		ug/Wipe	1	1040170	10/7/2010 10:31:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 9:58:00AM
Surrogate: Decachlorobiphenyl	*41.0 %*			*40-159*		*1040170*	10/6/2010 9:58:00AM
Surrogate: Tetrachloro-m-xylene	*54.0 %*			*47-125*		*1040170*	10/6/2010 9:58:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
oject: Hudepohl 72.05876.0884

Lab ID: 10I1495-06 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-46 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:22:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:22:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:22:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:22:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:22:00AM
Aroclor 1254	**5.30**	0.500		ug/Wipe	1	1040170	10/7/2010 10:55:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:22:00AM
Surrogate: Decachlorobiphenyl	*42.0 %*			*40-159*		*1040170*	10/6/2010 10:22:00AM
Surrogate: Tetrachloro-m-xylene	*50.0 %*			*47-125*		*1040170*	10/6/2010 10:22:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 1011495
.oject: Hudepohl 72.05876.0884

Lab ID: 1011495-07 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-47 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:46:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:46:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:46:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:46:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:46:00AM
Aroclor 1254	**2.09**	0.500		ug/Wipe	1	1040170	10/7/2010 11:19:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 10:46:00AM
Surrogate: Decachlorobiphenyl	*49.0 %*			*40-159*		*1040170*	10/6/2010 10:46:00AM
Surrogate: Tetrachloro-m-xylene	*51.0 %*			*47-125*		*1040170*	10/6/2010 10:46:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-08 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-48 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:46:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:46:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:46:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:46:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:46:00PM
Aroclor 1254	**1.53**	0.500		ug/Wipe	1	1040170	10/7/2010 11:43:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:46:00PM
Surrogate: Decachlorobiphenyl	*47.0 %*			*40-159*		*1040170*	10/6/2010 12:46:00PM
Surrogate: Tetrachloro-m-xylene	*60.0 %*			*47-125*		*1040170*	10/6/2010 12:46:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-09 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-49 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Aroclor 1254	**3.83**	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 6:52:00AM
Surrogate: Decachlorobiphenyl	*54.0 %*			*40-159*		*1040170*	10/10/2010 6:52:00AM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*47-125*		*1040170*	10/10/2010 6:52:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
oject: Hudepohl 72.05876.0884

Lab ID: 10I1495-10 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-50 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:46:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:46:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:46:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:46:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:46:00AM
Aroclor 1254	**3.92**	0.500		ug/Wipe	1	1040170	10/7/2010 12:07:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:46:00AM
Surrogate: Decachlorobiphenyl	*59.0 %*			*40-159*		*1040170*	10/6/2010 8:46:00AM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*47-125*		*1040170*	10/6/2010 8:46:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 1011495
roject: Hudepohl 72.05876.0884

Lab ID: 1011495-11 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-51 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 8:22:00AM
Surrogate: Decachlorobiphenyl	*69.0 %*			*40-159*		*1040170*	10/6/2010 8:22:00AM
Surrogate: Tetrachloro-m-xylene	*78.0 %*			*47-125*		*1040170*	10/6/2010 8:22:00AM

Belmont Labs **Date:** 10/13/2010

'ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
.oject: Hudepohl 72.05876.0884

Lab ID: 10I1495-12 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-52 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:34:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:34:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:34:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:34:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:34:00PM
Aroclor 1254	**1.61**	0.500		ug/Wipe	1	1040170	10/7/2010 12:31:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:34:00PM
Surrogate: Decachlorobiphenyl	*54.0 %*			*40-159*		*1040170*	10/6/2010 1:34:00PM
Surrogate: Tetrachloro-m-xylene	*56.0 %*			*47-125*		*1040170*	10/6/2010 1:34:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
oject: Hudepohl 72.05876.0884

Lab ID: 10I1495-13 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-53 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:10:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:10:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:10:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:10:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:10:00PM
Aroclor 1254	**1.90**	0.500		ug/Wipe	1	1040170	10/7/2010 12:55:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 1:10:00PM
Surrogate: Decachlorobiphenyl	*59.0 %*			*40-159*		*1040170*	10/6/2010 1:10:00PM
Surrogate: Tetrachloro-m-xylene	*46.0 %*		*S-04*	*47-125*		*1040170*	10/6/2010 1:10:00PM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-14 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-54 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:34:00AM
Surrogate: Decachlorobiphenyl	*50.0 %*			*40-159*		*1040170*	10/6/2010 11:34:00AM
Surrogate: Tetrachloro-m-xylene	*48.0 %*			*47-125*		*1040170*	10/6/2010 11:34:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 1011495
Project: Hudepohl 72.05876.0884

Lab ID: 1011495-15 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-55 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:05:00AM
Surrogate: Decachlorobiphenyl	*58.0 %*			*40-159*		*1040170*	10/10/2010 8:05:00AM
Surrogate: Tetrachloro-m-xylene	*53.0 %*			*47-125*		*1040170*	10/10/2010 8:05:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10l1495
roject: Hudepohl 72.05876.0884

Lab ID: 10l1495-16 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-56 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 11:59:00AM
Surrogate: Decachlorobiphenyl	*69.0 %*			*40-159*		*1040170*	10/6/2010 11:59:00AM
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*47-125*		*1040170*	10/6/2010 11:59:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-17 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-57 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 8:53:00AM
Surrogate: Decachlorobiphenyl	*70.0 %*			*40-159*		*1040170*	10/10/2010 8:53:00AM
Surrogate: Tetrachloro-m-xylene	*60.0 %*			*47-125*		*1040170*	10/10/2010 8:53:00AM

Belmont Labs **Date:** 10/13/2010

lENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10l1495
Project: Hudepohl 72.05876.0884

Lab ID: 10l1495-18 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-58 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/6/2010 12:22:00PM
Surrogate: Decachlorobiphenyl	*59.0 %*			*40-159*		*1040170*	10/6/2010 12:22:00PM
Surrogate: Tetrachloro-m-xylene	*50.0 %*			*47-125*		*1040170*	10/6/2010 12:22:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 1011495
Project: Hudepohl 72.05876.0884

Lab ID: 1011495-19 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-59 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/10/2010 9:41:00AM
Surrogate: Decachlorobiphenyl	*60.0 %*			*40-159*		*1040170*	10/10/2010 9:41:00AM
Surrogate: Tetrachloro-m-xylene	*54.0 %*			*47-125*		*1040170*	10/10/2010 9:41:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-20 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-60 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0206		mg/kg dry	1	1041064	10/11/2010 5:19:00PM
Aroclor 1221	BDL	0.0206		mg/kg dry	1	1041064	10/11/2010 5:19:00PM
Aroclor 1232	BDL	0.0206		mg/kg dry	1	1041064	10/11/2010 5:19:00PM
Aroclor 1242	BDL	0.0206		mg/kg dry	1	1041064	10/11/2010 5:19:00PM
Aroclor 1248	BDL	0.0206		mg/kg dry	1	1041064	10/11/2010 5:19:00PM
Aroclor 1254	**2.88**	0.206		mg/kg dry	10	1041064	10/12/2010 5:11:00PM
Aroclor 1260	BDL	0.0206		mg/kg dry	1	1041064	10/11/2010 5:19:00PM
Surrogate: Decachlorobiphenyl		*46.0 %*		*40-159*		*1041064*	10/11/2010 5:19:00PM
Surrogate: Tetrachloro-m-xylene		*%*	*S-04*	*47-125*		*1041064*	10/11/2010 5:19:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**2.87**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-21 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-61 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0204		mg/kg dry	1	1041064	10/11/2010 5:43:00PM
Aroclor 1221	BDL	0.0204		mg/kg dry	1	1041064	10/11/2010 5:43:00PM
Aroclor 1232	BDL	0.0204		mg/kg dry	1	1041064	10/11/2010 5:43:00PM
Aroclor 1242	BDL	0.0204		mg/kg dry	1	1041064	10/11/2010 5:43:00PM
Aroclor 1248	BDL	0.0204		mg/kg dry	1	1041064	10/11/2010 5:43:00PM
Aroclor 1254	**4.76**	0.204		mg/kg dry	10	1041064	10/12/2010 5:35:00PM
Aroclor 1260	BDL	0.0204		mg/kg dry	1	1041064	10/11/2010 5:43:00PM
Surrogate: Decachlorobiphenyl		*51.0 %*		*40-159*		*1041064*	10/11/2010 5:43:00PM
Surrogate: Tetrachloro-m-xylene		*30.0 %*	*S-04*	*47-125*		*1041064*	10/11/2010 5:43:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**2.11**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-22 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-62 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Aroclor 1221	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Aroclor 1232	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Aroclor 1242	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Aroclor 1248	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Aroclor 1254	**0.527**	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Aroclor 1260	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:07:00PM
Surrogate: Decachlorobiphenyl		*48.0 %*		*40-159*		*1041064*	10/11/2010 6:07:00PM
Surrogate: Tetrachloro-m-xylene		*37.0 %*	*S-04*	*47-125*		*1041064*	10/11/2010 6:07:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**1.23**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

\ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-23 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-63 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:31:00PM
Aroclor 1221	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:31:00PM
Aroclor 1232	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:31:00PM
Aroclor 1242	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:31:00PM
Aroclor 1248	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:31:00PM
Aroclor 1254	**2.43**	0.101		mg/kg dry	5	1041064	10/12/2010 5:59:00PM
Aroclor 1260	BDL	0.0202		mg/kg dry	1	1041064	10/11/2010 6:31:00PM
Surrogate: Decachlorobiphenyl		*48.0 %*		*40-159*		*1041064*	10/11/2010 6:31:00PM
Surrogate: Tetrachloro-m-xylene		*46.0 %*	*S-04*	*47-125*		*1041064*	10/11/2010 6:31:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**0.952**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-24 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-64 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0207		mg/kg dry	1	1041064	10/11/2010 6:55:00PM
Aroclor 1221	BDL	0.0207		mg/kg dry	1	1041064	10/11/2010 6:55:00PM
Aroclor 1232	BDL	0.0207		mg/kg dry	1	1041064	10/11/2010 6:55:00PM
Aroclor 1242	BDL	0.0207		mg/kg dry	1	1041064	10/11/2010 6:55:00PM
Aroclor 1248	BDL	0.0207		mg/kg dry	1	1041064	10/11/2010 6:55:00PM
Aroclor 1254	**3.68**	0.207		mg/kg dry	10	1041064	10/12/2010 6:23:00PM
Aroclor 1260	BDL	0.0207		mg/kg dry	1	1041064	10/11/2010 6:55:00PM
Surrogate: Decachlorobiphenyl	*43.0 %*			*40-159*		*1041064*	10/11/2010 6:55:00PM
Surrogate: Tetrachloro-m-xylene	*28.0 %*		*S-04*	*47-125*		*1041064*	10/11/2010 6:55:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**3.51**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-25 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-65 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Aroclor 1221	BDL	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Aroclor 1232	BDL	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Aroclor 1242	BDL	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Aroclor 1248	BDL	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Aroclor 1254	**0.755**	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Aroclor 1260	BDL	0.0203		mg/kg dry	1	1041064	10/11/2010 7:19:00PM
Surrogate: Decachlorobiphenyl		*71.0 %*		*40-159*		*1041064*	10/11/2010 7:19:00PM
Surrogate: Tetrachloro-m-xylene		*28.0 %*	*S-04*	*47-125*		*1041064*	10/11/2010 7:19:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**1.60**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-26 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-66 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0209		mg/kg dry	1	1041064	10/11/2010 7:43:00PM
Aroclor 1221	BDL	0.0209		mg/kg dry	1	1041064	10/11/2010 7:43:00PM
Aroclor 1232	BDL	0.0209		mg/kg dry	1	1041064	10/11/2010 7:43:00PM
Aroclor 1242	BDL	0.0209		mg/kg dry	1	1041064	10/11/2010 7:43:00PM
Aroclor 1248	BDL	0.0209		mg/kg dry	1	1041064	10/11/2010 7:43:00PM
Aroclor 1254	**4.57**	0.209		mg/kg dry	10	1041064	10/12/2010 6:47:00PM
Aroclor 1260	BDL	0.0209		mg/kg dry	1	1041064	10/11/2010 7:43:00PM
Surrogate: Decachlorobiphenyl		*59.0 %*		*40-159*		*1041064*	10/11/2010 7:43:00PM
Surrogate: Tetrachloro-m-xylene		*88.0 %*		*47-125*		*1041064*	10/11/2010 7:43:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**4.23**			% by Weight	1	1042180	10/12/2010 11:00:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-27 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 67 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040170	10/11/2010 8:06:00PM
Surrogate: Decachlorobiphenyl	*51.0 %*			*40-159*		*1040170*	10/11/2010 8:06:00PM
Surrogate: Tetrachloro-m-xylene	*72.0 %*			*47-125*		*1040170*	10/11/2010 8:06:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10l1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10l1495-28 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 68 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Aroclor 1254	**3.30**	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:30:00PM
Surrogate: Decachlorobiphenyl	*71.0 %*			*40-159*		*1040171*	10/11/2010 8:30:00PM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*47-125*		*1040171*	10/11/2010 8:30:00PM

Belmont Labs **Date:** 10/13/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-29 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 69 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Aroclor 1254	**2.58**	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 8:54:00PM
Surrogate: Decachlorobiphenyl	*61.0 %*			*40-159*		*1040171*	10/11/2010 8:54:00PM
Surrogate: Tetrachloro-m-xylene	*102 %*			*47-125*		*1040171*	10/11/2010 8:54:00PM

Belmont Labs **Date:** 10/13/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-30 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 70 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Aroclor 1254	**0.950**	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:18:00PM
Surrogate: Decachlorobiphenyl	*69.0 %*			*40-159*		*1040171*	10/11/2010 9:18:00PM
Surrogate: Tetrachloro-m-xylene	*123 %*			*47-125*		*1040171*	10/11/2010 9:18:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-31 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 71 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 9:42:00PM
Surrogate: Decachlorobiphenyl	*92.0 %*			*40-159*		*1040171*	10/11/2010 9:42:00PM
Surrogate: Tetrachloro-m-xylene	*108 %*			*47-125*		*1040171*	10/11/2010 9:42:00PM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-32 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 72 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Aroclor 1254	**2.42**	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:06:00PM
Surrogate: Decachlorobiphenyl	*65.0 %*			*40-159*		*1040171*	10/11/2010 10:06:00PM
Surrogate: Tetrachloro-m-xylene	*96.0 %*			*47-125*		*1040171*	10/11/2010 10:06:00PM

Belmont Labs **Date:** 10/13/2010

!ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-33 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 73 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Aroclor 1254	**3.44**	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:29:00PM
Surrogate: Decachlorobiphenyl	*65.0 %*			*40-159*		*1040171*	10/11/2010 10:29:00PM
Surrogate: Tetrachloro-m-xylene	*86.0 %*			*47-125*		*1040171*	10/11/2010 10:29:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-34 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 74 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 10:53:00PM
Surrogate: Decachlorobiphenyl	*64.0 %*			*40-159*		*1040171*	10/11/2010 10:53:00PM
Surrogate: Tetrachloro-m-xylene	*78.0 %*			*47-125*		*1040171*	10/11/2010 10:53:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-35 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 75 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Aroclor 1254	**11.1**	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:17:00PM
Surrogate: Decachlorobiphenyl	*57.0 %*			*40-159*		*1040171*	10/11/2010 11:17:00PM
Surrogate: Tetrachloro-m-xylene	*45.0 %*		*S-04*	*47-125*		*1040171*	10/11/2010 11:17:00PM

Belmont Labs **Date:** 10/13/2010

'ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-36 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 76 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Aroclor 1254	**3.08**	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/11/2010 11:41:00PM
Surrogate: Decachlorobiphenyl	*56.0 %*			*40-159*		*1040171*	10/11/2010 11:41:00PM
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*47-125*		*1040171*	10/11/2010 11:41:00PM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-37 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 77 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Aroclor 1254	**2.25**	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:05:00AM
Surrogate: Decachlorobiphenyl	*54.0 %*			*40-159*		*1040171*	10/12/2010 12:05:00AM
Surrogate: Tetrachloro-m-xylene	*66.0 %*			*47-125*		*1040171*	10/12/2010 12:05:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-38 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 78 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Aroclor 1254	**2.64**	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:29:00AM
Surrogate: Decachlorobiphenyl	*43.0 %*			*40-159*		*1040171*	10/12/2010 12:29:00AM
Surrogate: Tetrachloro-m-xylene	*55.0 %*			*47-125*		*1040171*	10/12/2010 12:29:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 1011495
. roject: Hudepohl 72.05876.0884

Lab ID: 1011495-39 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 79 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Aroclor 1254	**3.78**	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 12:53:00AM
Surrogate: Decachlorobiphenyl	*45.0 %*			*40-159*		*1040171*	10/12/2010 12:53:00AM
Surrogate: Tetrachloro-m-xylene	*55.0 %*			*47-125*		*1040171*	10/12/2010 12:53:00AM

Belmont Labs **Date:** 10/13/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-40 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 80 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Aroclor 1254	**2.17**	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:04:00AM
Surrogate: Decachlorobiphenyl	*46.0 %*			*40-159*		*1040171*	10/12/2010 2:04:00AM
Surrogate: Tetrachloro-m-xylene	*57.0 %*			*47-125*		*1040171*	10/12/2010 2:04:00AM

Belmont Labs **Date:** 10/13/2010

CLIENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-41 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 81 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Aroclor 1254	**3.19**	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:28:00AM
Surrogate: Decachlorobiphenyl	*41.0 %*			*40-159*		*1040171*	10/12/2010 2:28:00AM
Surrogate: Tetrachloro-m-xylene	*61.0 %*			*47-125*		*1040171*	10/12/2010 2:28:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-42 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: 82 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 2:52:00AM
Surrogate: Decachlorobiphenyl	*38.0 %*		*S-04*	*40-159*		*1040171*	10/12/2010 2:52:00AM
Surrogate: Tetrachloro-m-xylene	*44.0 %*		*S-04*	*47-125*		*1040171*	10/12/2010 2:52:00AM

Belmont Labs **Date:** 10/13/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
. roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-43 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-A **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:16:00AM
Surrogate: Decachlorobiphenyl	*70.0 %*			*40-159*		*1040171*	10/12/2010 3:16:00AM
Surrogate: Tetrachloro-m-xylene	*70.0 %*			*47-125*		*1040171*	10/12/2010 3:16:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
roject: Hudepohl 72.05876.0884

Lab ID: 10I1495-44 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-B **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Aroclor 1254	**1.31**	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 3:40:00AM
Surrogate: Decachlorobiphenyl	*44.0 %*			*40-159*		*1040171*	10/12/2010 3:40:00AM
Surrogate: Tetrachloro-m-xylene	*60.0 %*			*47-125*		*1040171*	10/12/2010 3:40:00AM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-45 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: P-C **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Aroclor 1254	**0.900**	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:04:00AM
Surrogate: Decachlorobiphenyl	*65.0 %*			*40-159*		*1040171*	10/12/2010 4:04:00AM
Surrogate: Tetrachloro-m-xylene	*82.0 %*			*47-125*		*1040171*	10/12/2010 4:04:00AM

Belmont Labs **Date:** 10/13/2010

ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10I1495
Project: Hudepohl 72.05876.0884

Lab ID: 10I1495-46 **Collection Date:** 9/28/2010 12:00:00AM
Client Sample ID: Blank 1 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1040171	10/12/2010 4:28:00AM
Surrogate: Decachlorobiphenyl	*77.0 %*			*40-159*		*1040171*	10/12/2010 4:28:00AM
Surrogate: Tetrachloro-m-xylene	*63.0 %*			*47-125*		*1040171*	10/12/2010 4:28:00AM

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

1 of 5

Internal Lab Order Number 10I1495

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers (10)	PCB 8082	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
P-41	9-28-10			X	Wipe	1	X		
P-42				X		1	X		
P-43				X		1	X		
P-44				X		1	X		
P-45				X		1	X		
P-46				X		1	X		
P-47				X		1	X		
P-48				X		1	X		
P-49				X		1	X		
P-50				X		1	X		

CHAIN OF CUSTODY (if required)

Relinquished by: William A Norris Date/Time 9/29/10 10:00 Received by: [signature] 9-29-10 Date/Time 0930

Relinquished by: Date/Time Received at lab by: [signature] 9-29-10 Date/Time 1500

Method of Shipment: courier provided by lab Cooler Temp. 3.1°C Custody Seals ☒ Yes ☐ No

Sampled by: Mike Bossart / Bill Norris Date 9/28/10

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

215

Internal Lab Order Number

Purchase Order No. | Quote No. | Client Project: Hudepohl

INVOICE TO
Name: Same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: | Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers (10)	PCB 8082	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
P-51	9-28-10			X	Wipe	1	X									
P-52				X		1	X									
P-53				X		1	X									
P-54				X		1	X									
P-55				X		1	X									
P-56				X		1	X									
P-57				X		1	X									
P-58				X		1	X									
P-59				X		1	X									
P-60				X	S	1	X									

CHAIN OF CUSTODY (If required)

Relinquished by: William A Norris Date/Time 9/29/10 1000 Received by: D J Clark 9-29-10 Date/Time 0920

Relinquished by: Date/Time Received at lab by: D J Clark 9-29-10 Date/Time 1500

Method of Shipment: courier provided by lab Cooler Temp. 3.1°C Custody Seals ☒ Yes ☐ No

Sampled by: Mike Bossert / Bill Norris Date 9/28/10

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

3 of 5

Internal Lab Order Number _____

urchase Order No. | Quote No. | Client Project: Hudepohl

INVOICE TO
Name: same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers (10)	PCB 8082	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	HNO3 HCl H2SO4 Ice None Other	Lab Only
P-61	9-28-10			X	S	1	X									
P-62				X	S	1	X									
P-63				X	S	1	X									
P-64				X	S	1	X									
P-65				X	S	1	X									
P-66				X	S	1	X									
P-67				X	Wipe	1	X									
P-68				X		1	X									
P-69				X		1	X									
P-70				X		1	X									

CHAIN OF CUSTODY (if required)

Relinquished by: Nellie A Norris Date/Time 9/29/10 1000 Received by: [signature] 9-29-10 Date/Time 0930

Relinquished by: Date/Time Received at lab by: [signature] 9-29-10 Date/Time 1500

Method of Shipment: lab courier Cooler Temp. 3.1 °C Custody Seals ☒ Yes ☐ No

Sampled by: Mike Bossart / Bill Norris Date 9/28/10

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company.

ANALYTICAL REQUEST CHAIN OF CUSTODY

72.05876.0884

Internal Lab Order Number _____

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Sam R
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers (14)	PCB 8082	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
P-71	9-28-10			X	Wipe	1	X								
P-72				X		1	X								
P-73				X		1	X								
P-74				X		1	X								
P-75				X		1	X								
P-76				X		1	X								
P-77				X		1	X								
P-78				X		1	X								
P-79				X		1	X								
P-80				X		1	X								

CHAIN OF CUSTODY (if required)

Relinquished by: William O'Norris Date/Time 9/29/10 1000 Received by: [signature] 9-29-10 Date/Time 0930

Relinquished by: Date/Time Received at lab by: [signature] 9-29-10 Date/Time 1500

Method of Shipment: lab courier Cooler Temp. 3.1°C Custody Seals ☒ Yes ☐ No

Sampled by: Mike Bossart / Bill Norris Date 9/28/10

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

3 of 5

Internal Lab Order Number _____

Purchase Order No. | Quote No. | Client Project: Hudepohl

INVOICE TO
Name: Sumse
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: | Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	PCB 8082	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
P-81	9-28-10			X	Wipe	1	X								
P-82				X		1	X								
P-A				X		1	X								
P-B				X		1	X								
P-C				X		1	X								
Blank 1				X		1	X								

CHAIN OF CUSTODY (if required)

Relinquished by: William A Norris Date/Time 9/29/10 1000 Received by: [signature] 9-29-10 Date/Time 0830

Relinquished by: Date/Time Received at lab by: [signature] 9-29-10 Date/Time 1500

Method of Shipment: lab, couriers Cooler Temp. 3.1°C Custody Seals ☒ Yes ☐ No

Sampled by: Mike Bossert / Bill Norris Date 9/28/10

Client Comments

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho-Form #9786-5/02

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040170 - PREP_PP_WIPE										
Blank (1040170-BLK1)				Prepared: 09/30/10 Analyzed: 10/05/10						
Aroclor 1016	BDL	0.500	ug/Wipe							
Aroclor 1221	BDL	0.500	ug/Wipe							
Aroclor 1232	BDL	0.500	ug/Wipe							
Aroclor 1242	BDL	0.500	ug/Wipe							
Aroclor 1248	BDL	0.500	ug/Wipe							
Aroclor 1254	BDL	0.500	ug/Wipe							
Aroclor 1260	BDL	0.500	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.790*		*ug/Wipe*	*1.000*		*79.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.660*		*ug/Wipe*	*1.000*		*66.0*	*47-125*			
LCS (1040170-BS1)				Prepared: 09/30/10 Analyzed: 10/05/10						
Aroclor 1016	7.11	0.500	ug/Wipe	10.00		71.1	51-168			
Aroclor 1260	8.24	0.500	ug/Wipe	10.00		82.4	51-173			
Surrogate: Decachlorobiphenyl	*0.870*		*ug/Wipe*	*1.000*		*87.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.460*		*ug/Wipe*	*1.000*		*46.0*	*47-125*			*A-01a*
3 Dup (1040170-BSD1)				Prepared: 09/30/10 Analyzed: 10/05/10						
Aroclor 1016	7.95	0.500	ug/Wipe	10.00		79.5	51-168	11.2	24	
Aroclor 1260	8.04	0.500	ug/Wipe	10.00		80.4	51-173	2.46	25	
Surrogate: Decachlorobiphenyl	*0.690*		*ug/Wipe*	*1.000*		*69.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.360*		*ug/Wipe*	*1.000*		*36.0*	*47-125*			*A-01a*
Batch 1040171 - PREP_PP_WIPE										
Blank (1040171-BLK1)				Prepared: 09/30/10 Analyzed: 10/05/10						
Aroclor 1016	BDL	0.500	ug/Wipe							
Aroclor 1221	BDL	0.500	ug/Wipe							
Aroclor 1232	BDL	0.500	ug/Wipe							
Aroclor 1242	BDL	0.500	ug/Wipe							
Aroclor 1248	BDL	0.500	ug/Wipe							
Aroclor 1254	BDL	0.500	ug/Wipe							
Aroclor 1260	BDL	0.500	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.750*		*ug/Wipe*	*1.000*		*75.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.640*		*ug/Wipe*	*1.000*		*64.0*	*47-125*			

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040171 - PREP_PP_WIPE										
LCS (1040171-BS1)				Prepared: 09/30/10 Analyzed: 10/05/10						
Aroclor 1016	7.57	0.500	ug/Wipe	10.00		75.7	51-168			
Aroclor 1260	8.97	0.500	ug/Wipe	10.00		89.7	51-173			
Surrogate: Decachlorobiphenyl	*0.790*		*ug/Wipe*	*1.000*		*79.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.390*		*ug/Wipe*	*1.000*		*39.0*	*47-125*			*A-01*
LCS Dup (1040171-BSD1)				Prepared: 09/30/10 Analyzed: 10/05/10						
Aroclor 1016	7.48	0.500	ug/Wipe	10.00		74.8	51-168	1.20	24	
Aroclor 1260	7.71	0.500	ug/Wipe	10.00		77.1	51-173	15.1	25	
Surrogate: Decachlorobiphenyl	*0.700*		*ug/Wipe*	*1.000*		*70.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.390*		*ug/Wipe*	*1.000*		*39.0*	*47-125*			*A-01*
Batch 1041064 - PREP_PP_S										
Blank (1041064-BLK1)				Prepared: 10/05/10 Analyzed: 10/10/10						
Aroclor 1016	BDL	0.0200	mg/kg wet							
Aroclor 1221	BDL	0.0200	mg/kg wet							
clor 1232	BDL	0.0200	mg/kg wet							
lor 1242	BDL	0.0200	mg/kg wet							
Aroclor 1248	BDL	0.0200	mg/kg wet							
Aroclor 1254	BDL	0.0200	mg/kg wet							
Aroclor 1260	BDL	0.0200	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0337*		*mg/kg wet*	*0.03333*		*101*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0190*		*mg/kg wet*	*0.03333*		*57.0*	*47-125*			
LCS (1041064-BS1)				Prepared: 10/05/10 Analyzed: 10/10/10						
Aroclor 1016	0.275	0.0200	mg/kg wet	0.3333		82.5	51-168			
Aroclor 1260	0.324	0.0200	mg/kg wet	0.3333		97.2	51-173			
Surrogate: Decachlorobiphenyl	*0.0317*		*mg/kg wet*	*0.03333*		*95.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0257*		*mg/kg wet*	*0.03333*		*77.0*	*47-125*			

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041064 - PREP_PP_S										
LCS Dup (1041064-BSD1)				Prepared: 10/05/10 Analyzed: 10/10/10						
Aroclor 1016	0.278	0.0200	mg/kg wet	0.3333		83.3	51-168	0.965	24	
Aroclor 1260	0.323	0.0200	mg/kg wet	0.3333		97.0	51-173	0.206	25	
Surrogate: Decachlorobiphenyl	*0.0333*		*mg/kg wet*	*0.03333*		*100*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0260*		*mg/kg wet*	*0.03333*		*78.0*	*47-125*			

Conventional Chemistry Parameters by ASTM Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1042180 - Wet Chem Prep										
Duplicate (1042180-DUP1)	**Source: 10I1495-21**			Prepared & Analyzed: 10/12/10						
% Solids	97.9		% by Weight		97.9			0.0426	5	
Percent Moisture	2.07		% by Weight		2.11			2.00	200	
Duplicate (1042180-DUP2)	**Source: 10J0471-01**			Prepared & Analyzed: 10/12/10						
% Solids	92.8		% by Weight		91.1			1.88	5	
Percent Moisture	7.18		% by Weight		8.91			21.5	200	

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

A-01a Surrogate recoveries low, but spike recoveries within accpetance limits.

A-01 Surrogate recoveries low, but spike recoveries within acceptance limits.

Sample preservation was met unless otherwise noted.

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10J0043	10/13/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Holly Green
Affiant Signature

Sworn to before me this 14th day of October, 2010.

Vanessa L. Heslep
Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs
The Environmental Service Company.

Wednesday, October 13, 2010
Analytical Results

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl 72.05876.0884 Work Order: 10J0043

Belmont Labs received 6 sample(s) on 10/1/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green

Holly Green
Project Manager

Certifications: NELAP/NELAC - #04130 VAP - #CL0032
Ohio EPA Drinking water - #836 Ohio EPA Drinking water (Micro) - #872

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
roject: Hudepohl 72.05876.0884

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10J0043-01A	P-83	9/30/2010 12:00:00AM	10/1/2010
10J0043-02A	P-84	9/30/2010 12:00:00AM	10/1/2010
10J0043-03A	P-85	9/30/2010 12:00:00AM	10/1/2010
10J0043-04A	P-86	9/30/2010 12:00:00AM	10/1/2010
10J0043-05A	BL-2	9/30/2010 12:00:00AM	10/1/2010
10J0043-06A	P-D	9/30/2010 12:00:00AM	10/1/2010

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
Project: Hudepohl 72.05876.0884

Lab ID: 10J0043-01 **Collection Date:** 9/30/2010 12:00:00AM
Client Sample ID: P-83 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 6:52:00AM
Surrogate: Decachlorobiphenyl	*70.0 %*			*40-159*		*1041181*	10/12/2010 6:52:00AM
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*47-125*		*1041181*	10/12/2010 6:52:00AM

Belmont Labs **Date:** 10/13/2010

.IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
. roject: Hudepohl 72.05876.0884

Lab ID: 10J0043-02 **Collection Date:** 9/30/2010 12:00:00AM
Client Sample ID: P-84 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:16:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:16:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:16:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:16:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:16:00AM
Aroclor 1254	**1.21**	0.500		ug/Wipe	1	1041181	10/12/2010 7:11:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:16:00AM
Surrogate: Decachlorobiphenyl	*70.0 %*			*40-159*		*1041181*	10/12/2010 7:16:00AM
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*47-125*		*1041181*	10/12/2010 7:16:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
Project: Hudepohl 72.05876.0884

Lab ID: 10J0043-03 **Collection Date:** 9/30/2010 12:00:00AM
Client Sample ID: P-85 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:40:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:40:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:40:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:40:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:40:00AM
Aroclor 1254	**4.24**	0.500		ug/Wipe	1	1041181	10/12/2010 7:35:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 7:40:00AM
Surrogate: Decachlorobiphenyl	*61.0 %*			*40-159*		*1041181*	10/12/2010 7:40:00AM
Surrogate: Tetrachloro-m-xylene	*63.0 %*			*47-125*		*1041181*	10/12/2010 7:40:00AM

Belmont Labs **Date:** 10/13/2010

!ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
. .oject: Hudepohl 72.05876.0884

Lab ID: 10J0043-04 **Collection Date:** 9/30/2010 12:00:00AM
Client Sample ID: P-86 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 8:04:00AM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 8:04:00AM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 8:04:00AM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 8:04:00AM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 8:04:00AM
Aroclor 1254	**10.1**	0.500		ug/Wipe	1	1041181	10/12/2010 7:59:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 8:04:00AM
Surrogate: Decachlorobiphenyl	*59.0 %*			*40-159*		*1041181*	10/12/2010 8:04:00AM
Surrogate: Tetrachloro-m-xylene	*72.0 %*			*47-125*		*1041181*	10/12/2010 8:04:00AM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
. roject: Hudepohl 72.05876.0884

Lab ID: 10J0043-05 **Collection Date:** 9/30/2010 12:00:00AM
Client Sample ID: BL-2 **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Aroclor 1254	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 9:58:00PM
Surrogate: Decachlorobiphenyl	*78.0 %*			*40-159*		*1041181*	10/12/2010 9:58:00PM
Surrogate: Tetrachloro-m-xylene	*64.0 %*			*47-125*		*1041181*	10/12/2010 9:58:00PM

Belmont Labs **Date:** 10/13/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0043
roject: Hudepohl 72.05876.0884

Lab ID: 10J0043-06 **Collection Date:** 9/30/2010 12:00:00AM
Client Sample ID: P-D **Matrix:** Wipe

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Aroclor 1221	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Aroclor 1232	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Aroclor 1242	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Aroclor 1248	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Aroclor 1254	**5.14**	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Aroclor 1260	BDL	0.500		ug/Wipe	1	1041181	10/12/2010 10:22:00PM
Surrogate: Decachlorobiphenyl	*73.0 %*			*40-159*		*1041181*	10/12/2010 10:22:00PM
Surrogate: Tetrachloro-m-xylene	*62.0 %*			*47-125*		*1041181*	10/12/2010 10:22:00PM

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

Internal Lab Order Number 10J0043

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: Summe
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Rd
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No | Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	PCB 8082	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
P-83	9/30/10			X	Wipe		X								
P-84				X			X								
P-85				X			X								
P-86				X			X								
BL-2				X			X								
P-D				X			X								
						(6)									

CHAIN OF CUSTODY (if required)

Relinquished by: [signature] Date/Time 10/1/10 0915 Received by: [signature] 10-1-10 Date/Time 1047

Relinquished by: Date/Time Received at lab by: [signature] 10-1-10 Date/Time 1400

Method of Shipment: lab courier Cooler Temp. 01 -3.1°C Custody Seals ☒ Yes ☐ No

Sampled by: MikeBossert/WilliamNorris Date 9/30/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

Please return completed form and samples to Belmont Labs • 25 Holiday Drive • Englewood, OH 45322 • 937.832.8242 • Fax 937.832.2868

A & B Litho-Form #9786-5/02

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041181 - PREP_PP_WIPE										
Blank (1041181-BLK1)				Prepared: 10/07/10 Analyzed: 10/10/10						
Aroclor 1016	BDL	0.500	ug/Wipe							
Aroclor 1221	BDL	0.500	ug/Wipe							
Aroclor 1232	BDL	0.500	ug/Wipe							
Aroclor 1242	BDL	0.500	ug/Wipe							
Aroclor 1248	BDL	0.500	ug/Wipe							
Aroclor 1254	BDL	0.500	ug/Wipe							
Aroclor 1260	BDL	0.500	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.760*		*ug/Wipe*	*1.000*		*76.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.580*		*ug/Wipe*	*1.000*		*58.0*	*47-125*			
LCS (1041181-BS1)				Prepared: 10/07/10 Analyzed: 10/10/10						
Aroclor 1016	8.16	0.500	ug/Wipe	10.00		81.6	51-168			
Aroclor 1260	8.96	0.500	ug/Wipe	10.00		89.6	51-173			
Surrogate: Decachlorobiphenyl	*0.790*		*ug/Wipe*	*1.000*		*79.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.670*		*ug/Wipe*	*1.000*		*67.0*	*47-125*			
S Dup (1041181-BSD1)				Prepared: 10/07/10 Analyzed: 10/10/10						
ɔclor 1016	8.13	0.500	ug/Wipe	10.00		81.3	51-168	0.368	24	
Aroclor 1260	7.60	0.500	ug/Wipe	10.00		76.0	51-173	16.4	25	
Surrogate: Decachlorobiphenyl	*0.680*		*ug/Wipe*	*1.000*		*68.0*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.630*		*ug/Wipe*	*1.000*		*63.0*	*47-125*			

IENT:	ATC Associates, Inc. Cincinnati Office	**Lab Order:**	10J0043
oject:	Hudepohl 72.05876.0884		

Notes and Definitions

Sample preservation was met unless otherwise noted.

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF OHIO

COUNTY OF MONTGOMERY SS:

I, Holly Green, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Belmont Labs as Project Manager and was authorized to submit this affidavit on behalf of Belmont Labs for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Belmont Labs performed analyses on behalf of **ATC Associates** concerning a voluntary action at property known as **The Old Hudepohl Brewery, 801 W. Sixth Street, Cincinnati, Ohio 45203**.

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
10J0333	10/21/2010

6. Belmont Labs was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Belmont Labs performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Belmont Labs, identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 15th day of November, 2010.

Name of Notary Public

NOTARIAL SEAL STATE OF OHIO

Vanessa L. Heslep
Notary Public
State of Ohio
Comm. Expires
Aug. 08, 2012

VAP certification #: CL0032

Belmont Labs™
The Environmental Service Company.

Thursday, October 21, 2010
Analytical Results

Bill Norris
ATC Associates, Inc. Cincinnati Office
11121 Canal Road
Cincinnati, OH 45241
TEL: (513) 771-2112
FAX (513) 782-6908

RE: Hudepohl Brewery 72.05876.0884 Work Order: 10J0333

Belmont Labs received 3 sample(s) on 10/7/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green

Holly Green
Project Manager

Belmont Labs **Date:** 10/21/2010

!ENT:	ATC Associates, Inc. Cincinnati Office	**Lab Order:**	10J0333
. roject:	Hudepohl Brewery 72.05876.0884		

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
10J0333-01A	C-1	9/30/2010 2:15:00PM	10/7/2010
10J0333-02A	C-2	9/30/2010 2:45:00PM	10/7/2010
10J0333-03A	C-3	9/30/2010 3:15:00PM	10/7/2010

Belmont Labs **Date:** 10/21/2010

'ENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0333
.oject: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0333-01 **Collection Date:** 9/30/2010 2:15:00PM
Client Sample ID: C-1 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0208		mg/kg dry	1	1042278	10/18/2010 10:08:00PM
Aroclor 1221	BDL	0.0208		mg/kg dry	1	1042278	10/18/2010 10:08:00PM
Aroclor 1232	BDL	0.0208		mg/kg dry	1	1042278	10/18/2010 10:08:00PM
Aroclor 1242	BDL	0.0208		mg/kg dry	1	1042278	10/18/2010 10:08:00PM
Aroclor 1248	BDL	0.0208		mg/kg dry	1	1042278	10/18/2010 10:08:00PM
Aroclor 1254	**3.81**	0.208		mg/kg dry	10	1042278	10/20/2010 1:00:00AM
Aroclor 1260	BDL	0.0208		mg/kg dry	1	1042278	10/18/2010 10:08:00PM
Surrogate: Decachlorobiphenyl	*86.0 %*			*40-159*		*1042278*	10/18/2010 10:08:00PM
Surrogate: Tetrachloro-m-xylene	*111 %*			*47-125*		*1042278*	10/18/2010 10:08:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**3.87**			% by Weight	1	1043186	10/20/2010 11:00:00AM

Belmont Labs **Date:** 10/21/2010

IENT: ATC Associates, Inc. Cincinnati Office **Lab Order:** 10J0333
. roject: Hudepohl Brewery 72.05876.0884

Lab ID: 10J0333-02 **Collection Date:** 9/30/2010 2:45:00PM
Client Sample ID: C-2 **Matrix:** Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0212		mg/kg dry	1	1042278	10/18/2010 10:32:00PM
Aroclor 1221	BDL	0.0212		mg/kg dry	1	1042278	10/18/2010 10:32:00PM
Aroclor 1232	BDL	0.0212		mg/kg dry	1	1042278	10/18/2010 10:32:00PM
Aroclor 1242	BDL	0.0212		mg/kg dry	1	1042278	10/18/2010 10:32:00PM
Aroclor 1248	BDL	0.0212		mg/kg dry	1	1042278	10/18/2010 10:32:00PM
Aroclor 1254	**0.597**	0.0212		mg/kg dry	1	1042278	10/20/2010 1:24:00AM
Aroclor 1260	BDL	0.0212		mg/kg dry	1	1042278	10/18/2010 10:32:00PM
Surrogate: Decachlorobiphenyl	*68.0 %*			*40-159*		*1042278*	10/18/2010 10:32:00PM
Surrogate: Tetrachloro-m-xylene	*103 %*			*47-125*		*1042278*	10/18/2010 10:32:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**5.46**			% by Weight	1	1043186	10/20/2010 11:00:00AM

Belmont Labs **Date:** 10/21/2010

IENT: ATC Associates, Inc. Cincinnati Office
.oject: Hudepohl Brewery 72.05876.0884
Lab Order: 10J0333

Lab ID: 10J0333-03
Client Sample ID: C-3
Collection Date: 9/30/2010 3:15:00PM
Matrix: Soil

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PCB_8082	**SW 8082**					**Analyst: MBG**	
Aroclor 1016	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Aroclor 1221	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Aroclor 1232	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Aroclor 1242	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Aroclor 1248	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Aroclor 1254	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Aroclor 1260	BDL	0.0204		mg/kg dry	1	1042278	10/18/2010 10:56:00PM
Surrogate: Decachlorobiphenyl	*11.0 %*			*40-159*		*1042278*	10/18/2010 10:56:00PM
Surrogate: Tetrachloro-m-xylene	*57.0 %*			*47-125*		*1042278*	10/18/2010 10:56:00PM
PMOIST	**D 2216**					**Analyst: AD**	
Percent Moisture	**1.79**			% by Weight	1	1043186	10/20/2010 11:00:00AM

Belmont Labs
The Environmental Service Company. 72.05876.0884

ANALYTICAL REQUEST CHAIN OF CUSTODY

Internal Lab Order Number 10J033

Purchase Order No.	Quote No.	Client Project
		Hudepohl

INVOICE TO
Name: same
Company:
Address:
City, State, Zip:

REPORT TO
Name: Bill Norris
Company: ATC Associates
Mailing Address: 11121 Canal Road
City, State, Zip: Cincinnati, OH 45241
Phone No.: 513-771-2112 Fax No.: 513-782-6908

Date Results Req: Rush Charges Authorized? ☐ Yes ☐ No Fax Results ☐

Special Instructions:

Additional QC Requirements: Level 2, Level 3, Level 4 (Charges Apply)

Regulatory Type
☐ NPDES
☐ RCRA
☐ SDWA
☒ VAP
☐ Other
Collected in State of Ohio

Matrix Key
DW - Drinking Water
GW - Ground Water
S - Soil/Solid
SL - Sludge
WW - Waste Water
Specify Other

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request and circle preservative)

CLIENT SAMPLE IDENTIFICATION	Date Sampled	Time	Comp	Grab	Matrix	Number of Containers	VOA 8260 HNO3, HCl, H2SO4, Ice, None, Other	PAH 8270 HNO3, HCl, H2SO4, Ice, None, Other	PCB 8082 HNO3, HCl, H2SO4, Ice, None, Other	TPH 8015 C6-C12 HNO3, HCl, H2SO4, Ice, None, Other	TPH C10-C20 C20-C34 8015 HNO3, HCl, H2SO4, Ice, None, Other	RCRA Metals 6010/7470 HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	HNO3, HCl, H2SO4, Ice, None, Other	Lab Only
C-1	9/30/10	1415		X	S	1			X						
C-2	↓	1445		X	S	1			X						
C-3	↓	1515		X	S	1			X						
										(3)					

CHAIN OF CUSTODY (if required) C

Relinquished by: William A Norris Date/Time 10/6/10 1830 Received by: FedEx #793986503812 Date/Time

Relinquished by: Date/Time Received at lab by: P. Whitaker Date/Time 10-7-10 9:30

Method of Shipment: FedEx 7939 8650 3812 Cooler Temp. 2.8° iced Custody Seals ☒ Yes ☐ No

Sampled by: Wm Norris Date 9/30/10

Client Comments

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

A & B Litho 9786-5/02

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1042278 - PREP_PP_S										
Blank (1042278-BLK1)				Prepared: 10/14/10 Analyzed: 10/18/10						
Aroclor 1016	BDL	0.0200	mg/kg wet							
Aroclor 1221	BDL	0.0200	mg/kg wet							
Aroclor 1232	BDL	0.0200	mg/kg wet							
Aroclor 1242	BDL	0.0200	mg/kg wet							
Aroclor 1248	BDL	0.0200	mg/kg wet							
Aroclor 1254	BDL	0.0200	mg/kg wet							
Aroclor 1260	BDL	0.0200	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0517*		*mg/kg wet*	*0.03333*		*155*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0347*		*mg/kg wet*	*0.03333*		*104*	*47-125*			
LCS (1042278-BS1)				Prepared: 10/14/10 Analyzed: 10/18/10						
Aroclor 1016	0.383	0.0200	mg/kg wet	0.3333		115	51-168			
Aroclor 1260	0.397	0.0200	mg/kg wet	0.3333		119	51-173			
Surrogate: Decachlorobiphenyl	*0.0483*		*mg/kg wet*	*0.03333*		*145*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0217*		*mg/kg wet*	*0.03333*		*65.0*	*47-125*			
S Dup (1042278-BSD1)				Prepared: 10/14/10 Analyzed: 10/18/10						
oclor 1016	0.345	0.0200	mg/kg wet	0.3333		104	51-168	10.4	24	
Aroclor 1260	0.428	0.0200	mg/kg wet	0.3333		128	51-173	7.51	25	
Surrogate: Decachlorobiphenyl	*0.0357*		*mg/kg wet*	*0.03333*		*107*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0157*		*mg/kg wet*	*0.03333*		*47.0*	*47-125*			
Matrix Spike (1042278-MS1)	**Source: 10J0039-13**			Prepared: 10/14/10 Analyzed: 10/18/10						
Aroclor 1016	0.704	0.0218	mg/kg dry	0.3593	ND	196	10-231			
Aroclor 1260	0.802	0.0218	mg/kg dry	0.3593	ND	223	42-167			M
Surrogate: Decachlorobiphenyl	*0.0377*		*mg/kg dry*	*0.03593*		*105*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0302*		*mg/kg dry*	*0.03593*		*84.0*	*47-125*			

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1042278 - PREP_PP_S										
Matrix Spike Dup (1042278-MSD1)	**Source: 10J0039-13**			Prepared: 10/14/10 Analyzed: 10/18/10						
Aroclor 1016	0.650	0.0218	mg/kg dry	0.3521	ND	184	10-231	8.07	50	
Aroclor 1260	0.827	0.0218	mg/kg dry	0.3521	ND	235	42-167	3.08	24	M
Surrogate: Decachlorobiphenyl	*0.0419*		*mg/kg dry*	*0.03521*		*119*	*40-159*			
Surrogate: Tetrachloro-m-xylene	*0.0236*		*mg/kg dry*	*0.03521*		*67.0*	*47-125*			

Conventional Chemistry Parameters by ASTM Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1043186 - Wet Chem Prep										
Duplicate (1043186-DUP1)	**Source: 10J0339-16**		Prepared & Analyzed: 10/20/10							
% Solids	88.8		% by Weight		91.1			2.60	5	
Percent Moisture	11.2		% by Weight		8.91			23.2	200	

Notes and Definitions

M Matrix spike and/or matrix spike duplicate recovery outside of acceptance limits.

Sample preservation was met unless otherwise noted.

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

July 27, 2010

Mr. Bill Norris
ATC Associates
11121 Canal Rd.
Cincinnati, OH 45241

RE: Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Dear Mr. Norris:
Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly M Jones

Kelly Jones for
Andrew Votaw
andrew.votaw@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5039333001	NBE-01-09	Solid	07/07/10 08:00	07/13/10 11:07
5039333002	RF-01-08	Solid	07/07/10 08:00	07/13/10 11:07
5039333003	NBH-01-03	Solid	07/07/10 08:00	07/13/10 11:07
5039333004	RF-01-07	Solid	07/07/10 08:00	07/13/10 11:07
5039333005	RF-01-06	Solid	07/07/10 08:00	07/13/10 11:07
5039333006	BWH-01-05	Solid	07/07/10 08:00	07/13/10 11:07
5039333007	BWH-01-04	Solid	07/07/10 08:00	07/13/10 11:07
5039333008	NBE-01-02	Solid	07/07/10 08:00	07/13/10 11:07
5039333009	NBH-01-10	Solid	07/07/10 08:00	07/13/10 11:07
5039333010	RF-01-01	Solid	07/07/10 08:00	07/13/10 11:07

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5039333001	NBE-01-09	EPA 8082	LKC	8
5039333002	RF-01-08	EPA 8082	LKC	8
5039333003	NBH-01-03	EPA 8082	LKC	8
5039333004	RF-01-07	EPA 8082	LKC	8
5039333005	RF-01-06	EPA 8082	LKC	8
5039333006	BWH-01-05	EPA 8082	LKC	8
5039333007	BWH-01-04	EPA 8082	LKC	8
5039333008	NBE-01-02	EPA 8082	LKC	8
5039333009	NBH-01-10	EPA 8082	LKC	8
5039333010	RF-01-01	EPA 8082	LKC	8

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: NBE-01-09 **Lab ID: 5039333001** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:05	11096-82-5	
Tetrachloro-m-xylene (S)	60	%	20-130	1	07/13/10 21:38	07/16/10 20:05	877-09-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: RF-01-08 **Lab ID: 5039333002** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	436	1	07/13/10 21:38	07/16/10 20:11	11096-82-5	
Tetrachloro-m-xylene (S)	55	%	20-130	1	07/13/10 21:38	07/16/10 20:11	877-09-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: NBH-01-03 **Lab ID: 5039333003** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:17	11096-82-5	
Tetrachloro-m-xylene (S)	63	%	20-130	1	07/13/10 21:38	07/16/10 20:17	877-09-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: RF-01-07 **Lab ID: 5039333004** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	350	1	07/13/10 21:38	07/16/10 20:23	11096-82-5	
Tetrachloro-m-xylene (S)	60	%	20-130	1	07/13/10 21:38	07/16/10 20:23	877-09-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: RF-01-06 **Lab ID: 5039333005** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	2340	5	07/13/10 21:38	07/16/10 20:29	11096-82-5	
Tetrachloro-m-xylene (S)	0	%	20-130	5	07/13/10 21:38	07/16/10 20:29	877-09-8	S4

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: BWH-01-05 **Lab ID: 5039333006** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**3580**	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	3500	10	07/13/10 21:38	07/16/10 20:35	11096-82-5	
Tetrachloro-m-xylene (S)	0	%	20-130	10	07/13/10 21:38	07/16/10 20:35	877-09-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: BWH-01-04 **Lab ID: 5039333007** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	12674-11-2	1d,D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	7000	20	07/13/10 21:38	07/23/10 05:11	11096-82-5	
Tetrachloro-m-xylene (S)	0	%	20-130	20	07/13/10 21:38	07/23/10 05:11	877-09-8	S4

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: NBE-01-02 **Lab ID: 5039333008** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	12674-11-2	1d,D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1750	5	07/13/10 21:38	07/23/10 05:17	11096-82-5	
Tetrachloro-m-xylene (S)	0	%	20-130	5	07/13/10 21:38	07/23/10 05:17	877-09-8	S4

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: NBH-01-10 **Lab ID: 5039333009** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	2650	5	07/13/10 21:38	07/16/10 20:53	11096-82-5	
Tetrachloro-m-xylene (S)	0	%	20-130	5	07/13/10 21:38	07/16/10 20:53	877-09-8	S4

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

Sample: RF-01-01 **Lab ID: 5039333010** Collected: 07/07/10 08:00 Received: 07/13/10 11:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1750	5	07/13/10 21:38	07/16/10 20:59	11096-82-5	
Tetrachloro-m-xylene (S)	0	%	20-130	5	07/13/10 21:38	07/16/10 20:59	877-09-8	S4

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

QC Batch: OEXT/19642 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 5039333001, 5039333002, 5039333003, 5039333004, 5039333005, 5039333006, 5039333007, 5039333008, 5039333009, 5039333010

METHOD BLANK: 455730 Matrix: Solid
Associated Lab Samples: 5039333001, 5039333002, 5039333003, 5039333004, 5039333005, 5039333006, 5039333007, 5039333008, 5039333009, 5039333010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	35.0	07/16/10 21:35	
PCB-1221 (Aroclor 1221)	ug/kg	ND	35.0	07/16/10 21:35	
PCB-1232 (Aroclor 1232)	ug/kg	ND	35.0	07/16/10 21:35	
PCB-1242 (Aroclor 1242)	ug/kg	ND	35.0	07/16/10 21:35	
PCB-1248 (Aroclor 1248)	ug/kg	ND	35.0	07/16/10 21:35	
PCB-1254 (Aroclor 1254)	ug/kg	ND	35.0	07/16/10 21:35	
PCB-1260 (Aroclor 1260)	ug/kg	ND	35.0	07/16/10 21:35	
Tetrachloro-m-xylene (S)	%	64	20-130	07/16/10 21:35	

LABORATORY CONTROL SAMPLE: 455731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	118	71	46-129	
PCB-1260 (Aroclor 1260)	ug/kg	167	142	85	46-129	
Tetrachloro-m-xylene (S)	%			68	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 455732 455733

Parameter	Units	5039264030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	183	183	143	130	78	71	50-150	9	20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	183	183	181	174	99	95	50-150	4	20	
Tetrachloro-m-xylene (S)	%						66	60	20-130		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Former Hudepohl Brewery
Pace Project No.: 5039333

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1d	The opening and closing QC associated with this sample were biased high. No analytes were detected in the sample. Therefore, no laboratory bias exists. LKC 7-26-10
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1299976

Section A Required Client Information:

Company: ATC Associates
Address: 11121 Canal Rd
Cincinnati, OH 45241
Email To: Norris72@atcassociates.com
Phone: 513-771-2112 Fax: 513-782-6908
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: Bill Norris
Copy To:
Purchase Order No.:
Project Name: Former Hudepohl Brewery
Project Number: 72.05876.0884

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER VAP

Site Location STATE: OH

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PCBs in caulking	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	NBE-01-09	SL	G			7/7/10	N/A		1									X	X		001
2	RF-01-08		G						1									X	X		2
3	NBH-01-03		G						1									X	X		3
4	RF-01-07		G						1									X	X		4
5	RF-01-06		G						1									X	X		5
6	BWH-01-05		G						1									X	X		6
7	BWH-01-04		G						1									X	X		7
8	NBE-01-02		G						1									X	X		8
9	NBH-01-10		G						1									X	X		9
10	RF-01-01		G						1									X	X		10
11																					
12																					

5039333

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Michael Bossent	7-12-10	1630	William Morris / ATC	7/12/10	1630				
	William Morris	7/12/10	1730	Fed Ex #7988-4199-9630						
				Refrigerated	7/13/10	1107	19.5°C	N	N	

NTI FedXall
798842095310

ORIGINAL

SAMPLER NAME AND SIGNATURE: Mike Bossent
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: ATC

Project # 5039333

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 798842005310

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other envelope/2 plastic bags

Thermometer Used 1 2 3 4 5 6 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.5°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/13/10

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No ☑N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	10.
Trip Blank Present:	☐Yes ☐No ☑N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	12.
Sufficient Volume:	☐Yes ☐No ☐N/A	13.
Correct Containers Used:	☐Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 7/13/10

Sample Co .iner Count

Pace Analytical™ www.pacelabs.com

CLIENT: ATC

COC PAGE 1 of 1

COC ID# 1299976

Project # _____

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	ZPLC			Comments
1													1			
2													1			
3													1			
4													1			
5													1			
6													1			
7													1			
8													1			
9													1			
10													1			
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a L[illegible]DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1299976

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ATC Associates	Report To: Bill Norris	Attention: Same
Address: 11121 Canal Rd Cincinnati, OH 45241	Copy To:	Company Name:
Email To: Norris72@atcassociates.com	Purchase Order No.:	Address:
Phone: 513-771-2112 Fax: 513-782-6908	Project Name: Former Hudepohl Brewery	Pace Quote Reference:
Requested Due Date/TAT: normal	Project Number: 72.05876.0834	Pace Project Manager:
		Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA X OTHER VAP

Site Location STATE: OH

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PCBs in caulking	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	NBE-01-09		SL	G			7/7/10	N/A		1									X		5039333 01
2	RF-01-08			G						1									X		2
3	NBH-01-03			G						1									X		3
4	RF-01-07			G						1									X		4
5	RF-01-06			G						1									X		5
6	BWH-01-05			G						1									X		6
7	BWH-01-04			G						1									X		7
8	NBE-01-02			G						1									X		8
9	NBH-01-10			G						1									X		9
10	RF-01-01			G						1									X		10
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Michael Bossert	7-12-10	1630	William Norris / ATC	7/12/10	1630	
	William Norris	7/12/10	1730	Fed Ex #7988-4199-9630			
				FedEx Ground PEO	7/13/10	1107	19.5°C N N

FedEx Ground
798842025310

ORIGINAL

SAMPLER NAME AND SIGNATURE: Mike Bossert
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical Client Name: ATC Project # 5039333

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____ _____

Tracking #: 798842025310

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other envelope/ziplockbag

Thermometer Used 123456 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 19.5°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and initials of person examining contents: 7/13/10

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No ☑N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	10.
Trip Blank Present:	☐Yes ☐No ☑N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	12.
Sufficient Volume:	☐Yes ☐No ☐N/A	13.
Correct Containers Used:	☐Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 7/13/10

Form F-IN-Q290-rev.0, 02Mar2010

Sample Cc ainer Count

Pace Analytical
www.pacelabs.com

CLIENT: AIC

OC PAGE 1 of 1
OC ID# 1299976

Project # _____

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	ZPLC			Comments
1													1			
2													1			
3													1			
4													1			
5													1			
6													1			
7													1			
8													1			
9													1			
10													1			
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

ASBESTOS SURVEY REPORT

840 West 5th Street
Cincinnati, Ohio 45203

NAES Project Number: AI13005

Prepared for:

Mr. Nate Wanner
Pandey Environmental LLC
673 Mohawk Street, Suite 300
Columbus, Ohio 43206
614 444 8078 ext. 209

Prepared By:

North American Environmental Services, LLC
2848 Banwick Road
Columbus, Ohio 43232

February 20, 2013

ASBESTOS SURVEY REPORT

840 West 5th Street
Cincinnati, Ohio
NAES Project Number AI13005

1.0 PURPOSE AND SCOPE OF SERVICES

The purpose of this project was to conduct an asbestos survey of the property located at 840 West 5th Street, Cincinnati, Ohio, hereinafter referred to as the site. On February 6, 2013, North American Environmental Services, LLC (NAES) provided the services in accordance with the referenced agreement, and as outlined below:

Conduct a representative asbestos survey in the identified building(s), which includes the following:

1. Review existing asbestos reports for the buildings, if available.
2. Survey the site buildings.
3. Identify accessible suspect asbestos-containing materials (ACMs) in the building interiors exteriors, and roofs using Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) protocols.
4. Collect and analyze bulk samples of suspect friable and non-friable materials to eliminate suspect materials as asbestos containing.
5. Quantify ACMs, including material condition and location.

2.0 GENERAL SITE CONDITIONS

840 West 5th Street, Cincinnati

The structure is a combination of 3 buildings and 2 covered storage areas/ loading docks, encompassing approximately 43,000 square feet. The structure to the east is a 3 story building with a basement, the structure directly south of the 3 story building is a 2 story building with no basement and the third structure is located to the west of the 3 story building, is a 2 story building with no basement.

3.0 REPRESENTATIVE ASBESTOS-CONTAINING MATERIAL SURVEY

NAES representatives, Mr. James Jarrett and Mr. Patrick Gulla, Ohio Department of Health (ODH)-licensed asbestos building inspectors, (AHES 31630 & 35246) conducted the asbestos survey of the property on February 6, 2013.

The structure was visually inspected for the presence of building materials that are suspected to contain asbestos. Bulk samples of identified suspect ACMs were collected and placed into individual containers for transport to SanAir Technologies Laboratory, for analysis. Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled. The asbestos survey consisted of three basic procedures: **1)** conducting a visual inspection of the structure; **2)** identifying homogeneous areas (HA's) of suspect surfacing, thermal system insulation, and miscellaneous materials; and **3)** sampling accessible, friable and non-friable suspect materials.

3.1 Homogeneous Areas (HA)

Prior to collecting any samples, HA's were identified and listed to develop a sampling strategy. A homogeneous sampling area can be described as one or more areas of material that are similar in appearance and texture and that have the same installation date and function. The actual number of samples collected from each homogeneous sampling area may vary, based on the type of material and the professional judgment of the inspector.

3.2 Hazard Assessment Factors

From the list of suspect homogeneous materials, a physical assessment was performed for each material on the list. A physical assessment includes evaluating the condition, assessing the potential for disturbance, and determining the friability of each material. Friability is a term used to describe the ease in which a building material inherently lends itself to disturbance. By definition, "friable" materials are those that can be crumbled or reduced to powder by hand pressure when dry. Each material on the list was further classified into one of three categories, which have specific sampling requirements for each category.

Surfacing Materials:	Refers to spray-applied or troweled surfaces such as plaster ceilings and walls, fireproofing, textured paints, textured plasters, and spray-applied acoustical surfaces.
Thermal System Insulation:	Refers to insulation used to inhibit heat gain or loss on pipes, boilers, tanks, ducts, and various other building components.
Miscellaneous Materials:	Refers to friable and non-friable products and materials that do not fit in any of the above two categories such as resilient floor covering, baseboards, mastics, adhesives, roofing material, caulking, glazing, and siding. This category also contains wallboard, joint compound and ceiling tile.

All confirmed ACMs were then assessed by their condition as good (intact), fair (damaged), or poor (significantly damaged) per Title 40 Code of Federal Regulations Part 763. Material with localized significant damage was also assessed as poor when observed.

3.3 Sampling Strategy

The asbestos inspection was conducted in general accordance with the AHERA requirements using a minimum number of samples collected from each HA, which also meets the sampling requirement found in 29 CFR 1926.1101.

If the analytical results indicated that all the samples collected per HA did not contain asbestos, then the HA (material) would be considered a non-ACM. However, if the analytical results of one or more of the samples collected per HA indicate that asbestos is present in quantities of greater than 1 percent asbestos by weight (as defined by EPA), all of the HA (material) would be treated as an ACM regardless of any other analytical results. Material, which can visually be determined to be non-asbestos (i.e., fibrous glass, foam rubber, etc.) by the accredited inspector are not required to be sampled.

Miscellaneous materials require adequately representative sampling, which is typically done by collecting at least three samples per material. Inspectors typically rely on other survey observations such as the condition, friability, and quantity of material to determine what

would be a sufficient amount of samples to accurately evaluate the presence or absence of asbestos content.

Actual collection of a bulk asbestos sample involves physically removing a small piece of material and placing it in a marked, airtight container. Sample containers are marked with a unique identification number, which is also noted in the field notes.

3.4 Suspect Asbestos-Containing Material

Twenty two (22) bulk asbestos samples were collected from the site and twenty seven (27) samples were analyzed by Polarized Light Microscopy (PLM) based on the number of distinct layers (materials) associated with each bulk sample. For example, floor tile and associated mastic are collected as one bulk sample but are analyzed as two distinct materials by the asbestos laboratory, as required by to the Occupational Safety and Health Administration (OSHA). A summary of identified, accessible suspect and confirmed ACMs follows:

TABLE 1
840 West 5th Street
Cincinnati, Ohio

(Homogeneous Area) Material (Sample No.)	Location of Material	Condition	Friable Yes/No	Quantity (NESHAP Category)	Asbestos Content
(HA-1) Transite Debris 840-01, 02	Loading Dock	Fair	No	N/A	NAD
(HA-2) Ceiling Plaster 840-03, 04, 05	West 2 Story Loading Dock Area, 1st Floor	Good	Yes	N/A	NAD
(HA-3) Transite Panels 840-06	West 2 Story Loading Dock Area, Along Conveyor Belt	Good	No	500 SF Category II	20% Chrysotile
(HA-4) Mag Block Pipe Insulation 840-07	North End of 3 Story Building, 1st Floor	Fair	Yes	50 LF RACM	70% Chrysotile
(HA-5) Air Cell Pipe Insulation Debris 840-08	North End of 3 Story Building, 1st Floor	Poor	Yes	5 SF RACM	60% Chrysotile

TABLE 1 840 West 5th Street Cincinnati, Ohio					
(Homogeneous Area) Material (Sample No.)	**Location of Material**	**Condition**	**Friable Yes/No**	**Quantity (NESHAP Category)**	**Asbestos Content**
(HA-6) Window Glazing 840-09, 10	West Wall of 3 Story Building, 1st Floor	Good	Yes	N/A	NAD
No Sample Number 11					
(HA-6) Window Glazing 840-12	West Wall of 3 Story Building, 2nd Floor	Good	Yes	N/A	NAD
(HA-7) 9x9 Floor Tile/Mastic 840-13	Northwest Corner of 3 Story Building, 2nd Floor	Fair	No	240 SF Category I	5% Chrysotile 3% Chrysotile
(HA-7) 9x9 Floor Tile/Mastic 840-14	Northwest Corner of 3 Story Building, 2nd Floor	Fair	No	Positive Stop	Positive Stop
(HA-2) Ceiling Plaster 840-15, 16	Northwest Corner of 3 Story Building, 2nd Floor	Good	Yes	N/A	NAD
(HA-3) Transite 840-17	West Wall of 3 Story Building, 2nd Floor Along Conveyor Belt	Good	No	200 SF Category II	20% Chrysotile
(HA-6) Window Glazing 840-18, 19	North Wall of 3 Story Building, 3rd Floor	Good	Yes	N/A	NAD
(HA-8) Roofing 840-20, 21	Exterior of 2 Story	Good	No	N/A	NAD
(HA-8) Roofing 840-22	Exterior of 3 Story	Good	No	N/A	NAD

NAD=no asbestos detected, *=Point Count

3.5 Laboratory Analytical Results

Bulk samples were analyzed by SanAir Technologies Laboratory located in Powhatan, Virginia, using PLM according to EPA method 600/R-93/116. This laboratory participates in the NVLAP, a quality assurance program for PLM.

Any material that contains greater than 1 percent asbestos is considered an ACM and must be handled according OSHA, EPA, and applicable state and local regulations.

For friable materials, when the amount of asbestos in the sample material is reported as “None-Detected” by PLM analysis, no further verification of the sample results by Point Counting Methodology is recommended.

For friable materials, when the amount of asbestos in the sample material is reported as “Trace Asbestos Detected” or less than 10 percent asbestos by PLM analysis, the client may either assume the amount to be greater than 1 percent and treat the material as ACM or require further verification of the amount by Point Counting Methods. If the result obtained by Point Counting is different from the result obtained by PLM analysis, the Point Count Method result will be used.

For non-friable materials, when the amount of asbestos in the sample material is reported at greater than 1 percent by PLM analysis, no further verification of the sample results by alternative methods of identification such as TEM is recommended.

For non-friable materials, when the amount of asbestos in the sample material is reported as "Non-Detect" or "Trace Asbestos" by PLM analysis, due to the difficulty in analyzing "small, thin fibers" associated with vinyl/asphaltic or resinous bound materials, NAES recommends that these types of materials, which were reported as non-ACMs by PLM, be analyzed using TEM.

Copies of the laboratory analytical report and corresponding chain-of-custody are included in Appendix A. Results are reported in percent asbestos by volume and indicate the types of asbestos. Other common non-asbestos components may also be noted on the analytical reports.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the asbestos survey conducted, indicate that the following building materials were found to contain more than 1 percent asbestos by PLM analysis:

TABLE 2: ASBESTOS MANAGEMENT RECOMMENDATIONS
840 West 5th Street
Cincinnati, Ohio

(Homogeneous Area) Material (Classification)	Location of Material	Condition	Friable Yes/No	Quantity (NESHAP Category)	Recommendations
(HA-3) Transite Panels	West 2 Story Loading Dock Area, Along Conveyor Belt, West Wall of 3 Story Building, 2nd Floor Along Conveyor Belt, Roof of 2 Story Loading Dock Building	Good	No	1,175 SF Category II	Remove this material prior to demolition in accordance with NESHAP
(HA-4) Mag Block Pipe Insulation	North End of 3 Story Building on 1st Floor, West Wall of Conveyor Room & Stairwell of 3 Story Building, Eastside Basement Stairwell	Fair	Yes	106 LF RACM	Remove this material prior to demolition in accordance with NESHAP
(HA-5) Air Cell Pipe Insulation Debris	North End of 3 Story Building, 1st Floor	Poor	Yes	5 SF RACM	Remove this material prior to demolition in accordance with NESHAP
(HA-7) 9x9 Floor Tile/Mastic	Northwest Corner of 3 Story Building, 2nd Floor	Fair	No	240 SF Category I	Remove this material prior to demolition in accordance with NESHAP
Assumed Transite Flue	Roof of 2 Story Loading Dock Building	Good	No	30 LF Category II	Remove this material prior to demolition in accordance with NESHAP
Assumed Fire Doors	Stairwells of Each Floor	Good	No	12 Total Misc.	Remove this material prior to demolition in accordance with NESHAP
Assumed Pipe Insulation Debris	Basement & 1st Floor of 3 Story Building	Poor	Yes	200 LF RACM	Remove this material prior to demolition in accordance with NESHAP

The following recommendations should be followed for demolition projects

- When demolition by toppling occurs, adequate wetting shall be employed to suppress the dust and reasonable enclosures for dust emission control (as compatible with the building character) shall be employed.

- The non-friable ACMs shall **not** be subjected to burning, abrasion, grinding, sanding or any other processes during demolition, which will render these non-friable materials friable.

- Non-friable ACM debris dislodged during demolition can be disposed off site in a sanitary landfill that accepts asbestos-containing demolition/construction debris wastes within the framework of local/state regulations. Please verify with the local landfills about their policies on accepting such wastes prior to planning the demolition work.

- Non-friable ACM debris mixed with demolition debris should not be used as fill material on-site nor should it be sold/given away to others for the same use.

- If the substrate (such as concrete) on which these non-friable ACMs are installed is intended for recycling, the non-friable ACMs shall be removed prior to the recycling process by a state-licensed asbestos abatement contractor prior to initiating substrate recycling activities.

- If the demolition contractor changes the means and methods of demolition and the environmental consultant is of the opinion that the Category I non-friable materials are being made friable, or if visible dust emissions are generated, the work should be stopped. In these situations, revised notification for removal of non-friable ACM may become necessary and the removal work will then need to be done by an ODH licensed abatement contractor.

5.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during the February 6, 2013, NAES inspections of the property located at 840 West 5th Street, Cincinnati, Ohio.

NAES selection of sample locations and frequency of sampling was based on NAES observations and the assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating ACM. **Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as an Asbestos Project Design document or an Abatement Work plan.**

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is certified to Mr. Nate Wanner

The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

Inspector's Signature:

James Jarrett

Patrick Gulla

APPENDIX A

LABORATORY ANALYTICAL RESULTS

SanAir Technologies Laboratory

Analysis Report

prepared for

North American Environmental Services, LLC

Report Date: 2/18/2013
Project Name: 840 West 5th Street, Cincinnati
Project #: AI13005
SanAir ID#: 13003193

NVLAP LAB CODE 200870-0

AIHA LAP, LLC ACCREDITED LABORATORY ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #162952

Virginia SBE Certification # 652931

Texas Licensed Mold Analysis Laboratory License # LAB0166

SanAir Technologies Laboratory

804.897.1177 www.sanair.com

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

North American Environmental Services, LLC
2848 Banwick Road
Columbus, OH 43232

February 18, 2013

SanAir ID # 13003193
Project Name: 840 West 5th Street, Cincinnati
Project Number: AI13005

Dear Pat Gulla,

We at SanAir would like to thank you for the work you recently submitted. The 21 sample(s) were received on Monday, February 11, 2013 via FedEx. The final report(s) is enclosed for the following sample(s): 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
21 sample(s) in Good condition

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

13003193

FINAL REPORT

Name: North American Environmental Services, LLC
Address: 2848 Banwick Road
Columbus, OH 43232

Project Number: AI13005
P.O. Number:
Project Name: 840 West 5th Street, Cincinnati

Collected Date: 2/6/2013
Received Date: 2/11/2013 8:20:00 AM
Report Date: 2/18/2013 2:32:05 PM
Analyst: Sobrino, Sandra

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
01 / 13003193-001 Transite Debris Loading Dock	Grey Fibrous Heterogeneous	50% Cellulose	50% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
02 / 13003193-002 Transite Debris Loading Dock	Grey Fibrous Heterogeneous	50% Cellulose	50% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
03 / 13003193-003 Ceiling Plaster West 2 Story Loading Dock Area, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
03 / 13003193-003 Ceiling Plaster West 2 Story Loading Dock Area, Skim Coat	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
04 / 13003193-004 Ceiling Plaster West 2 Story Loading Dock Area	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
05 / 13003193-005 Ceiling Plaster West 2 Story Loading Dock Area, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
05 / 13003193-005 Ceiling Plaster West 2 Story Loading Dock Area, Skim Coat	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
06 / 13003193-006 Transite Panels West Loading Dock Area Along Conveyor Belt	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile

Certification

Signature: Sandra Sobrino Date: 2/18/2013

Reviewed: Sandra Sobrino Date: 2/18/2013

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

13003193

FINAL REPORT

Name: North American Environmental Services, LLC
Address: 2848 Banwick Road
Columbus, OH 43232

Project Number: AI13005
P.O. Number:
Project Name: 840 West 5th Street, Cincinnati

Collected Date: 2/6/2013
Received Date: 2/11/2013 8:20:00 AM
Report Date: 2/18/2013 2:32:05 PM
Analyst: Sobrino, Sandra

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Components: Stereoscopic Appearance	% Fibrous	% Non-Fibrous	Asbestos Fibers
07 / 13003193-007 Mag Block Pipe Insualtion North End 3 Story Building	Grey Fibrous Heterogeneous		30% Other	70% Chrysotile
08 / 13003193-008 Aircell Pipe Insualtion North End 3 Story Building First Flr	Grey Fibrous Homogeneous		40% Other	60% Chrysotile
09 / 13003193-009 Window Glazing West Wall Of 3 Story Buidling First Floor	White Non-Fibrous Homogeneous		100% Other	None Detected
10 / 13003193-010 Window Glazing West Wall Of 3 Story Buidling First Floor	White Non-Fibrous Homogeneous		100% Other	None Detected
12 / 13003193-011 Window Glazing West Wall 3 Story Building Second Floor	Grey Non-Fibrous Homogeneous		100% Other	None Detected
13 / 13003193-012 9x9 Floor Tile Northwest Corner Locker Room 3 Story Buidling, Floor Tile	Tan Non-Fibrous Homogeneous		95% Other	5% Chrysotile
13 / 13003193-012 9x9 Floor Tile Northwest Corner Locker Room 3 Story Buidling, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Certification

Signature: Sandra Sobrino Reviewed: Sandra Sobrino

Date: 2/18/2013 Date: 2/18/2013

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

13003193

FINAL REPORT

Name: North American Environmental Services, LLC
Address: 2848 Banwick Road
Columbus, OH 43232

Project Number: AI13005
P.O. Number:
Project Name: 840 West 5th Street, Cincinnati

Collected Date: 2/6/2013
Received Date: 2/11/2013 8:20:00 AM
Report Date: 2/18/2013 2:32:05 PM
Analyst: Sobrino, Sandra

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
14 / 13003193-013 9x9 Floor Tile Northwest Corner Locker Room 3 Story Buidling				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
15 / 13003193-014 Ceiling Plaster Northwest Corner Locker Rooms, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
15 / 13003193-014 Ceiling Plaster Northwest Corner Locker Rooms, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
16 / 13003193-015 Ceiling Plaster Northwest Corner Locker Rooms, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
16 / 13003193-015 Ceiling Plaster Northwest Corner Locker Rooms, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
17 / 13003193-016 Transite Northwest Corner Locker Rooms Of 3 Story Building	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
18 / 13003193-017 Window Glazing North Wall Of 3 Story Building Third Floor	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
19 / 13003193-018 Window Glazing North Wall Of 3 Story Building Third Floor	White Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Sandra Sobrino Reviewed: Sandra Sobrino

Date: 2/18/2013 Date: 2/18/2013

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

13003193

FINAL REPORT

Name: North American Environmental Services, LLC
Address: 2848 Banwick Road
Columbus, OH 43232

Project Number: AI13005
P.O. Number:
Project Name: 840 West 5th Street, Cincinnati

Collected Date: 2/6/2013
Received Date: 2/11/2013 8:20:00 AM
Report Date: 2/18/2013 2:32:05 PM
Analyst: Sobrino, Sandra

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
20 / 13003193-019 Roofing Material West 2 Story Building, Shingle	Black Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
20 / 13003193-019 Roofing Material West 2 Story Building, Felt	Black Fibrous Homogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
21 / 13003193-020 Roofing Material West 2 Story Building, Shingle	Black Non-Fibrous Heterogeneous	5% Cellulose	95% Other	None Detected
21 / 13003193-020 Roofing Material West 2 Story Building, Felt	Black Fibrous Homogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
22 / 13003193-021 Roofing Material 3 Story Building	Black Non-Fibrous Heterogeneous		100% Other	None Detected

Certification

Signature: Sandra Sobrino Reviewed: Sandra Sobrino

Date: 2/18/2013 Date: 2/18/2013

SanAir Technologies Laboratory

1551 Oakbridge Drive Suite B
Powhatan, VA 23139
804-897-1177 / 888-895-1177
Fax 804-897-0070
www.sanair.com

Asbestos Chain of Custody

SanAir ID Number 1300313

Company: North American Environmental Services, LLC	Project #: AI13005	Collected by: Patrick Gulla
Address: 2848 Banwick Road	Project Name: 840 West 5th Street, Cincinnati	Phone #: 614-487-1109
City, St., Zip: Columbus, OH 43232	Date Collected: 02/06/2013	Fax #: 614-291-8682
State of Collection: Ohio Account#: 1999	P.O. Number:	Email: gullanaes@sbcglobal.net

Bulk

ABB	PLM EPA 600/R-93/116	☑
	Positive Stop ☑	
ABEPA	PLM EPA 400 Point Count	☐
ABB1K	PLM EPA 1000 Point Count	☐
ABBEN	PLM EPA NOB	☐
ABBCH	TEM Chatfield	☐
ABBTM	TEM EPA NOB	☐

Water

ABHE	EPA 100.2	☐

Air

ABA	PCM NIOSH 7400	☐
ABA-2	OSHA w/ TWA*	☐
ABTEM	TEM AHERA	☐
ABATN	TEM NIOSH 7402	☐
ABT2	TEM Level II	☐

New York ELAP

PLM NY	PLM EPA 600/M4-82-020	☐
ABEPA2	NY ELAP 198.1	☐
ABENY	NY ELAP 198.6 PLM NOB	☐
ABBNY	NY ELAP 198.4 TEM NOB	☐

Soil/Vermiculite

ABSE	PLM EPA 600/R-93/116 (Qual.)	☐
ABSP	PLM CARB 435 (LOD <1%)	☐
ABSP1	PLM CARB 435 (LOD 0.25%)	☐
ABSP2	PLM CARB 435 (LOD 0.1%)	☐

Dust

ABWA	TEM Wipe ASTM D-6480	☐
ABDMV	TEM Microvac ASTM D-5755	☐

Matrix **Other**

		☐

Turn Around Times				
	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	24 HR ☐
	2 Days ☐	3 Days ☐	4 Days ☐	5 Days ■

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Type	Flow Rate*	Time* Start – Stop	
	See Attached Chain of Custody					

Relinquished by	Date	Time	Received by	Date	Time
Patrick Gulla	02/07/2013	2:02pm	RW	FEB 11 2013	9:00A

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

13003193

North American Environmental Services LLC.

2848 Banwick Road
Columbus, Ohio 43232
(614) 487-1109 Office
(614) 291-8682 Fax

Asbestos Bulk Sample Log and Chain of Custody Form

Project Name:
Project Address: 840 West 5th Street, Cincinnati
Notes:

NAES Project Number: AI13005
Sample Collection Date: 02/06/2013

HA#	Sample Number	Material Description	Sample Location	General Notes	Quantity LF/SF/CF
01	01	Transite Debris	Loading Dock		
01	02	Transite Debris	Loading Dock		
02	03	Ceiling Plaster	West 2 Story Loading Dock Area		105x55
02	04	Ceiling Plaster	West 2 Story Loading Dock Area		
02	05	Ceiling Plaster	West 2 Story Loading Dock Area		
03	06	Transite Panels	West 2 Story Loading Dock Area Along Conveyor Belt		500SF
04	07	Mag Block Pipe Insulation	North End of 3 Story Building First Floor		50 LF
05	08	Aircell Pipe Insulation	North End of 3 Story Building First Floor		5 SF
~~06~~	~~09~~	~~Window Glazing~~	~~West Wall of 3 Story Building First Floor~~	~~14 Window Systems Through the 3 Story Building~~	
06	10	Window Glazing	West Wall of 3 Story Building First Floor	15 Single Windows Through the 3 Story Building	
04	11	~~Pipe Insulation Debris~~ NO SAMPLE	~~South Wall of 3 Story Building Basement~~	NO SAMPLE	~~30 LF~~
06	12	Window Glazing	West Wall of 3 Story Building Second Floor		
07	13	9x9 Floor Tile	Northwest Corner Locker Rooms of 3 Story Building Second Floor		11x20

RMD FEB 11 2013 8:20A

13003193

07	14	9x9 Floor Tile	Northwest Corner Locker Rooms of 3 Story Building Second Floor		20 SF
02	15	Ceiling Plaster	Northwest Corner Locker Rooms of 3 Story Building Second Floor		105x55
02	16	Ceiling Plaster	Northwest Corner Locker Rooms of 3 Story Building Second Floor		
03	17	Transite	Northwest Corner Locker Rooms of 3 Story Building Along Conveyer Belt Second Floor		200 SF
06	18	Window Glazing	North Wall of 3 Story Building Third Floor		
06	19	Window Glazing	North Wall of 3 Story Building Third Floor		
08	20	Roofing Material	West 2 Story Building		
08	21	Roofing Material	West 2 Story Building		
08	22	Roofing Material	3 Story Building		

Inspectors Signature: _____ Date:_____

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP, AIHA or any other agency of the U.S. government*; and may not be certified by every local, state and federal regulatory agencies.*

APPENDIX B

CERTIFICATIONS

State of Ohio
Department of Health
Division of Quality Assurance - Asbestos Program

Asbestos Hazard Evaluation Specialist

James J Jarrett
North American Environmental Service
2848 Banwick Road
Columbus OH 43232

DOB: 03/14/1967

Certification Number
ES31630

Expiration Date
02/04/2014

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701-34 of the Ohio Administrative Code

Certification Card is not valid if altered

OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

614/466-3543
www.odh.ohio.gov

John R. Kasich/Governor

Theodore E. Wymysio, M.D./Director of Health

August 17, 2012

Patrick A Gulla
North American Environmental Services LLC
2848 Banwick Road
Columbus OH 43232

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES35246
Expiration Date: 09/14/2013

Dear Patrick A Gulla:

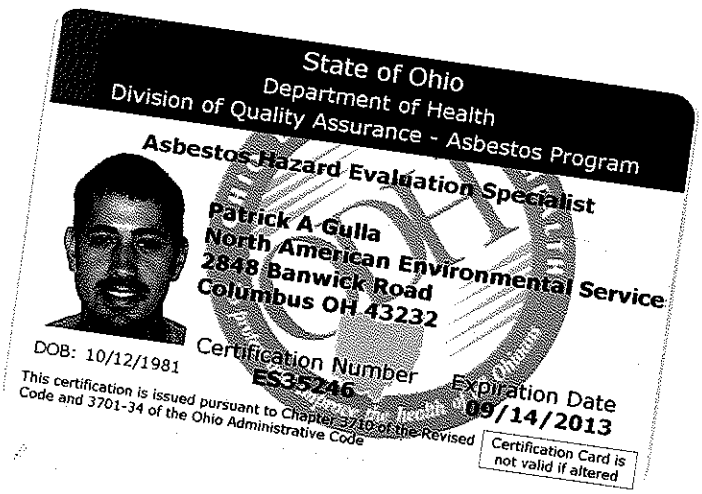
This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Adminstrative Code.

If you have any questions, please call Mary Lucas, Licensure Specailist, at 614-644-0226.

Sincerely,

Bridgette C. Smith
Licensure Program Administrator
Bureau of Information and Operational Support



APPENDIX C

PICTURES

840 West 5th Street, Cincinnati

840 West 5th Street, Cincinnati

840 West 5th Street, Cincinnati

840 West 5th Street, Cincinnati

Loading Dock, Plaster Ceiling

Loading Dock, Plaster Ceiling

Loading Dock, Transite and Plaster Ceiling

Transite Panels

3 Story Building, Pipe Insulation on 1st Floor

Pipe Insulation Debris, 1st Floor

Pipe Insulation, 1st Floor

Fiberboard, Same Material that is Outside Loading Dock

Mudded Pipe Elbow Left Behind

Window Glazing, 1st Floor

Window System, 1st Floor

Pipe Insulation, 1st Floor Conveyor Room

Pipe Insulation, Stairwell

Pipe Insulation, In Wall Access, Stairwell

Debris Left Behind on Pipe, Basement

Debris Left Behind on Pipe, Basement

Pipe Insulation, Basement Stairwell

Fire Door

2nd Floor, Window Systems

2nd Floor, Plaster Ceiling

2nd Floor, Plaster Ceiling

2nd Floor, Windows

Transite Debris, 2nd Floor

Transite Located above Conveyor System, 2nd Floor

Transite Panels, 2nd Floor

Window Systems, 3rd Floor

Conveyor House on Roof, Transite Panels

Transite Debris, on Roof

Overlooking East Portion of 3 Story and 2 Story Buildings

Window System

Conveyor House, Transite Panels

Transite Flue Pipe

Conveyor House, Transite

Appendix E

Field Sheets

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

ENVIRONMENTAL SOIL BORE LOG

Site: Cincinnati Hudepohl	Bore ID: SB-13
Date Drilled: 2/20/2013	Drill Rig: Trailer Mounted AMS Direct Push
Weather: clear, 20s	Auger Diam:
	Sampler Type: Dual Tube
Location: near 840 W 5th Gate	Logged By: AMH
	Sampler Size: 3' lengths

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description
					0	Topsoil. Then gravel with sand **FILL.** Organics throughout.
				2'	0.1	Gravel and sand **FILL** with organics. **SAND** with 30% gravel near 4'. Dry throughout.
				4'	N/A	No recovery. Presumed loose, dry **SAND FILL.**
				6'	0	50% recovery. Coarse brown **SAND** with 20% gravel. Dry. No odor.
				8'	0	Coarse brown **SAND.** Dry, no odor. Becomes more fine near 9'.
				10'	0	Very moist near 10'. Fine, brown **SAND** to 11', then **GRAVEL**. Some black chunks present: cinders? No odor.
				12'	0	Large **GRAVEL with SILT** to 13'. Then fine, brown **SAND.** Slightly moist, slight odor.
				14'	0	Brown and grey coarse **SAND AND GRAVEL.**

Notes:

ENVIRONMENTAL SOIL BORE LOG

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

Site: Cincinnati Hudepohl	Bore ID: SB-13
Date Drilled: 2/20/2013	Drill Rig: Trailer Mounted AMS Direct Push
Weather: clear, 20s	Auger Diam:
	Sampler Type: Dual Tube
Location:	Logged By: AMH
	Sampler Size: 3' lengths

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description
					0	Brown & grey **SAND**, 10% gravel. Dry. Finer toward 18'.
				18'		
				20'		
				22'		
				24'		
				26'		
				28'		
				30'		

Notes:

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

ENVIRONMENTAL SOIL BORE LOG

Site: Cincinnati Hudepohl	Bore ID: MW-6
Date Drilled: 2/21/2013	Drill Rig: Direct Push AMS / Diedrich Rotary
Weather: clear, 30s	Auger Diam: 4.25" ID / 8.5" OD
	Sampler Type: Dual Tube
Location: near 840 W 5th Gate	Logged By: AMH
	Sampler Size: 3' long sample tubes

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description	Well Construction Details
					N/A	Concrete.	
				2'	0	Clay and gravel **FILL** with cinders.	
				4'	N/A	Very little recovery. **CLAY** with sand and gravel.	
				6'	0	80% recovery. **CLAY** with sand. Brown. Small black stain near 6.25'	
				8'	0	Brown **CLAY** with sand.	
				10'	0	Brown **CLAY** with sand. Soft and moist near 10'. No stain, no odor.	
				12'	3	Very moist. Fine brown **SAND** with trace clay. No stain, no odor. Becomes dry and coarse near 14'.	
				14'	1.2	Loose brown **SAND AND GRAVEL** no stain, slight odor. Changes to coarse brown **SAND,** nearly no gravel near 15'. Slight odor. Dry. Some ash/cinders present near 15'.	

Notes:

PANDEY
ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

ENVIRONMENTAL SOIL BORE LOG

Site: Cincinnati Hudepohl	Bore ID: MW-6
Date Drilled: 2/21/2013	Drill Rig: Direct Push AMS / Diedrich Rotary
Weather: clear, 30s	Auger Diam: 4.25" ID / 8.5" OD
	Sampler Type: Dual Tube
Location:	Logged By: AMH
	Sampler Size: 3' long sample tubes

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description	Well Construction Details
					0.3	Loose, coarse, dry, brown **SAND**. Slight odor.	
				18'	0.5	Loose, coarse, dry, brown **SAND**. Slight odor.	
				20'	0	Changes to fine, brown, dry **SAND.** No stain, no odor.	
				22'	0.3	Fine, brown, dry **SAND**. No stain, no odor.	
				24'	0	Fine, brown, dry **SAND**. No stain, no odor. Moist band near 25.5'.	
				26'	0	Layer of larger gravel near 26'. Changes to coarse, dry **SAND.** No stain, no odor.	
				28'	0	Changes to coarse, dry **SAND**. No stain, no odor. Rock in tube at bottom.	
				30'	0	Changes to coarse, dry **SAND**. No stain, no odor.	
				32'			

Notes:

ENVIRONMENTAL SOIL BORE LOG

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

Site: Cincinnati Hudepohl	Bore ID: MW-6
Date Drilled: 2/21/2013	Drill Rig: Direct Push AMS / Diedrich Rotary
Weather: clear, 30s	Auger Diam: 4.25" ID / 8.5" OD
	Sampler Type: Dual Tube
Location:	Logged By: AMH
	Sampler Size: 3' long sample tubes

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description	Well Construction Details
				32'	0	Coarse, brown, medium **SAND** continues. Dry. No stain, no odor.	
				34'	0	Coarse, brown, medium SAND continues. Dry. No stain, very slight odor. Gravel near bottom of tube.	
				36'	0	Loose, coarse, medium brown **SAND,** dry. Slight odor. Some gravel throughout.	
				38'	0	Coarse brown **SAND AND GRAVEL.** Wet near 39.5'. No odor.	
				40'	0	Coarse brown SAND AND GRAVEL. Wet. Minor black spot (possibly organic) near 41.75'. No odor.	
				42'	0	Coarse, brown, medium **SAND.** Wet. No stain, no odor.	
				44'		Coarse, brown, medium **SAND.** Wet. No stain, no odor.	
				46'			
				48'			

Notes:

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

ENVIRONMENTAL SOIL BORE LOG

Site: Cincinnati Hudepohl	Bore ID: MW-7
Date Drilled: 2/20/2013	Drill Rig: Direct Push AMS / Diedrich Rotary
Weather: clear, 20s	Auger Diam: 4.25" ID / 8.5" OD
	Sampler Type: Dual Tube
Location: near 840 W 5th Gate	Logged By: AMH
	Sampler Size: 3' long sample tubes

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description	Well Construction Details
					0	60% recovery. Organics and topsoil. Then 6" brown CLAY with light staining. Then sand and gravel **FILL** to 2'.	
				2'	0	Brown & grey **SAND AND GRAVEL FILL.** Slightly moist with slight odor near 4'.	
				4'	0	Sand ends near 4.5'. Dry, brown **SILT.**	
				6'	0	Brown **SILT AND SAND.** No odor.	
				8'	0	Brown **SILT AND SAND.** No odor. Slightly moist.	
				10'	0	Fine brown **SAND.** Gravel and cinders near 12'. No odor.	
				12'	0	Gravel and ciders in brown **SAND.** Dry. Very fine, dry, brown **SAND** begins near 14'.	
				14'	0	Fine brown **SAND.** With cinders and gravel. Possibly fill. Slight odor.	
				16'			

Notes: Duplicate soil sample taken via hand auger for the 2-4' sample 1' offset from MW-7.

ENVIRONMENTAL SOIL BORE LOG

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

L	Site: Cincinnati Hudepohl	Bore ID: MW-7
	Date Drilled: 2/20/2013	Drill Rig: Direct Push AMS / Diedrich Rotary
	Weather: clear, 20s	Auger Diam: 4.25" ID / 8.5" OD
		Sampler Type: Dual Tube
Location:	Logged By: AMH	Sampler Size: 3' long sample tubes

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description	Well Construction Details
					0	Dry brown & grey **SAND AND GRAVEL.** Gravel ends near 17'.	
				18'	0	Dry, grey and brown **SAND.** Odor present.	
				20'	0	Dry, grey and brown **SAND.** Odor present.	
				22'	0	Dry, grey and brown **SAND.**	
				24'	0	Same grey and brown **SAND** as above with 50% gravel.	
				26'	0	Same grey and brown **SAND** as above with 30% gravel.	
				28'	0	Coarse brown-yellow **SAND** with 20% gravel.	
				30'	0	Coarse brown-yellow **SAND** with 40% gravel. Wet near 32'.	
				32'			

Notes:

ENVIRONMENTAL SOIL BORE LOG

PANDEY ENVIRONMENTAL, LLC
673 Mohawk St, Columbus, OH 43206
Phone: 614-444-8078, Fax: 614-444-8079

Site: Cincinnati Hudepohl	Bore ID: MW-7
Date Drilled: 2/20/2013	Drill Rig: Direct Push AMS / Diedrich Rotary
Weather: clear, 20s	Auger Diam: 4.25" ID / 8.5" OD
	Sampler Type: Dual Tube
Location:	Logged By: AMH
	Sampler Size: 3' long sample tubes

Auger	Split Spoon	Soil Sample	Sample Sent	Depth	VOC (ppm)	Description	Well Construction Details
				32'	N/A	Yellow-brown **SAND.** Coarse. 40% gravel. Wet.	
				34'	N/A	Yellow-brown **SAND.** Coarse. 40% gravel. Wet. Band of black possibly organics near 35'.	
				36'			
				38'			
				40'			
				42'			
				44'			
				46'			
				48'			

Notes:

PANDEY

ENVIRONMENTAL, LLC

Monitoring Well Development Sheet

Site: Former Hudepohl Brewery **Date:** 2/21/2013 - 2/22/2013 **Personnel:** Harnocz

Well Number	Total Depth (ft)	Depth to Water (ft)	Water Column (ft)	Volume/foot	1 Well Volume (gal)	3 Well Volumes (gal)	Actual Purge Amount (gal)	Observations/Comments
MW-2	59.1	43.8	15.3	0.1632	2.49696	7.49088	~8	Bailed Approx. 6 gallons. 2 Gallons purged w/ bladder pump prior to sampling
MW-3	54.6	46.9	7.7	0.1632	1.25664	3.76992	9 gallons	Purged with bladder pump prior to sampling
MW-4	59.6	53.55	6.05	0.1632	0.98736	2.96208	5 gallons	Bailed ~2 gallons 2/21, Bailed 3 gallons immediately prior to sampling.
MW-5	57.7	50.18	7.52	0.1632	1.227264	3.681792	5.75	Bailed ~2.5 gallons 2/21, purged 2.75 gallons via bladder pump prior to sample
MW-6	44.15	38.7	5.45	0.1632	0.88944	2.66832	8.25	Bailed 5 gallons prior to start of sampling. 3.25 gallons purged via bladder pump
MW-7	39.55	31.45	8.1	0.1632	1.32192	3.96576	9	Bailed 4 gallons prior to start of sampling. Purged 4 gallons via bladder pump.

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Weather:
Total Well Depth: feet
Water Level Measuring Device:
Well Construction: 2" Sch. 40 PVC
Purging Method:
Well Volume: =0.1632 gal/ft X 0 ft. = 0 gallons

Well Number: MW-1
Date: 2/21/2013
Reference: Top of PVC Riser Pipe - North Side
Immiscible Layer(s): N/A **Thickness:** N/A feet
Condition of Well:
Sampling Method:
Sample Number:

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. ºC or ºF	pH	Spec. Cond. µS/mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
			(start of pumping)							

MW-1 could not be located. It is presumed to be under demolition debris. Debris is 1-2' thick in the area of Yard A where this well is shown to be located on ATC's maps.

Sample Parameters:
Chain of Custody Number:

Comments:
Sampled By:

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: MW-2
Weather: cloudy, 30s
Date: 2/22/2013
Total Well Depth: 59.1 feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: 2" Sch. 40 PVC
Condition of Well:
Purging Method: Bailer
Sampling Method: Bladder Pump
Well Volume: =0.1632 gal/ft X 15.26 ft. = 2.490432 gallons
Sample Number:

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. °C	pH	Spec. Cond. mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
9:35	0	43.84	*(start of pumping)*							very silty
9:38		43.81								
10:30	1	43.82								
10:50	1.5	43.81								
11:00		43.81	10.77	7.16	1.93		9.64	188	405	
11:05	1.75	43.81	11.25	7.13	1.92		8.38	186	380	clearing slowly
11:10		43.81	11.48	7.09	1.93		8.17	188	369	
11:15	2	43.81	11.53	7.09	1.92		8	189	332	

Sample Parameters: VOCs. Sampled 11:15
Chain of Custody Number:

Comments:
Sampled By: Harnocz

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: MW-3
Weather: clear, 30s
Date: 2/21/2013
Total Well Depth: 54.6 feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: 2" Sch. 40 PVC
Condition of Well: good
Purging Method: Bladder Pump
Sampling Method: Bladder Pump
Well Volume: =0.1632 gal/ft X 7.7 ft. = 1.25664 gallons
Sample Number: MW-3

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. °C	pH	Spec. Cond. mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
11:45	0	46.9	*(start of pumping)*							very silty
1:35	5									silty
3:05	~9	46.9	13.02	7.13	1.81		3.33	152	364	slightly murky, brown
3:10		46.9	13.01	7.11	1.81		3.14	154	350	
3:15		46.9	13	7.14	1.81		3.07	155	340	

Sample Parameters: VOCs
Chain of Custody Number:

Comments: Sample taken 3:20
Sampled By: Martin

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: MW-4
Weather: cloudy, 40s
Date: 2/22/2013
Total Well Depth: 59.6 feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: 2" Sch. 40 PVC
Condition of Well: good
Purging Method: Bailer
Sampling Method: Bailer
Well Volume: =0.1632 gal/ft X 6.05 ft. = 0.98736 gallons
Sample Number: MW-4

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. ºC	pH	Spec. Cond. mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
3:42		53.55	*(start of pumping)*							
Purged 3 gallons via bailing, let well sit for 5 minutes, then sampled.										
4:05										

Sample Parameters: VOCs
Chain of Custody Number:

Comments:
Sampled By: Harnocz

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: MW-5
Weather: cloudy, 40s
Date: 2/22/2013
Total Well Depth: 57.7 feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: 2" Sch. 40 PVC
Condition of Well: good
Purging Method: Bailer
Sampling Method: Bladder Pump
Well Volume: =0.1632 gal/ft X 7.52 ft. = 1.227264 gallons
Sample Number:

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. °C	pH	Spec. Cond. mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
2:30	0	50.18	*(start of pumping)*							silty, light brown
2:35	0.25	50.15								
2:40	0.5	50.17								
2:45	0.75	50.15								clearing, connected flow-through meter
2:48	1	50.15	12.73	7.21	1.72		10.7	225	>1000	
2:51		50.15	13.44	6.97	1.7		2.59	232	821	
2:54	1.25	50.18	13.88	7.18	1.69		2.09	217	>1000	
2:57	1.5	50.18	14.44	7.25	1.67		1.84	210	975	
3:00		50.17	14.48	7.25	1.66		1.74	209	922	
3:03	1.75	50.16	14.56	7.23	1.66		1.67	209	805	
3:06	2	50.17	14.63	7.24	1.66		1.58	209	701	
3:09		50.16	14.64	7.21	1.66		1.53	208	674	
3:12	2.25	50.17	14.68	7.21	1.66		1.49	208	603	
3:15	2.5	50.16	14.67	7.21	1.66		1.46	207	540	
3:18	2.75	50.16	14.67	7.21	1.66		1.43	207	510	

Sample Parameters: VOCs
Chain of Custody Number:

Comments: Sampled 3:20
Sampled By: Harnocz

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: MW-6
Weather: rainy, 40s
Date: 2/22/2013
Total Well Depth: 44.15 feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: 2" Sch. 40 PVC
Condition of Well: new
Purging Method: Bailer
Sampling Method: Bladder Pump
Well Volume: =0.1632 gal/ft X 5.45 ft. = 0.88944 gallons
Sample Number: MW-6

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. °C	pH	Spec. Cond. mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
1:05	0	38.7	*(start of pumping)*							grey, silty
1:20	0.5	38.7								
1:25	1	38.7	15.49	7.01	2.1		2.42	124	>1000	clearing, connected flow-through meter
1:30	1.25	38.7	15.97	7.27	2.13		1.74	-4	994	
1:35	1.75	38.7	16.08	7.29	2.13		1.51	2	700	
1:40	2	38.7	16.1	7.3	2.14		1.35	4	559	
1:43	2.5	38.7	16.13	7.3	2.14		1.29	8	473	
1:46	2.75	38.7	16.18	7.28	2.14		1.31	13	536	
1:49		38.7	16.19	7.31	2.14		1.3	17	614	
1:52	3	38.7	16.14	7.32	2.14		1.27	15	588	
1:55	3.25	38.7	16.12	7.32	2.14		1.25	16	383	

Sample Parameters: VOCs
Chain of Custody Number:

Comments: **Sampled 2:00** Developed by bailing & surging 5 gallons approximately 1 hour prior to start of pumping.
Sampled By: Harnocz

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: MW-7
Weather: rainy, 40s
Date: 2/22/2013
Total Well Depth: 39.55 feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: 2" Sch. 40 PVC
Condition of Well: new
Purging Method: Bailer
Sampling Method: Bladder Pump
Well Volume: =0.1632 gal/ft X 8.1 ft. = 1.32192 gallons
Sample Number: MW-7

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. °C	pH	Spec. Cond. mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
11:40	0	31.45	*(start of pumping)*							silty
11:55	1	31.44								
12:00	1.5	31.45								clearing, connected flow-through meter
12:10	2	31.45	14.38	7.17	1.58		6.83	4	954	
2:15	2.5	31.44	14.85	7.15	1.59		2.23	-7	694	
12:18		31.44	15.06	7.18	1.59		1.84	_	480	number recorded for ORP out of range, likely read wrong line on meter
12:21	3	31.45	15.07	7.18	1.59		1.7	_	410	
12:24	3.25	31.44	15.12	7.17	1.59		1.58	_	387	
12:27	3.5	31.44	15.18	7.18	1.59		1.53	_	392	
12:30	3.75	31.45	15.22	7.17	1.58		1.53	-4	338	
12:33		31.44	15.24	7.16	1.58		1.5	0	354	
12:36	4	31.44	15.26	7.19	1.58		1.52	5	409	
12:39		31.44	15.29	7.2	1.58		1.5	5	481	

Sample Parameters: VOCs
Chain of Custody Number:

Comments: **Sampled 12:40, Duplicate taken 12:45**
Sampled By: Harnocz

PANDEY
ENVIRONMENTAL, LLC

Project Name: Cincinnati Hudepohl
Well Number: PW-1
Weather: clear, 40s
Date: 2/21/2013
Total Well Depth: unknown, estimated 98' feet
Reference: Top of PVC Riser Pipe - North Side
Water Level Measuring Device: Electronic Water Level Indicator
Immiscible Layer(s): N/A **Thickness:** N/A feet
Well Construction: ~18" steel casing
Condition of Well: open casing in pit in basement, covered by steel plate
Purging Method: None
Sampling Method: Bailer
Well Volume: Unknown
Sample Number: PW-1

Time	Volume (Gallons)	Water Level (Ft from TOC)	Temp. ºC or ºF	pH	Spec. Cond. µS/mS	Salinity	DO	ORP	Turbidity (NTUs)	Color / Comments
		42' from plate	*(start of pumping)*							
No development of well due to large well volume and access/safety issues. Sampled via bailer. Sample for screening purposes only.										

Sample Parameters: VOCs
Chain of Custody Number:

Comments:
Sampled By: Harnocz

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: SG-1	**Summa ID: 1133**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: Ground floor of Building 7 (Hudepohl West)	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 1 Hour**
Summa went to ambient pressure? N	**Gauge #: 0362**
Pressure Gauge reading (Pre-opening): -29	**Start Time: 1:00**
Pressure Gauge reading (Post-opening): -4	**End Time: 2:00**
Latitude:	**Longitude:**
Notes: TO-15 Short List	

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: SG-2	**Summa ID: 1316**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: Middle of basement, Bulding 6 (Hudepohl West)	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 1 Hour**
Summa went to ambient pressure? N	**Gauge #: 0028**
Pressure Gauge reading (Pre-opening): -29	**Start Time: 12:53**
Pressure Gauge reading (Post-opening): -2	**End Time: 1:54**
Latitude:	**Longitude:**
Notes: TO-15 Short List	

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: SG-3	**Summa ID: 0887**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: North end of Building 5.	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 1 Hour**
Summa went to ambient pressure? N	**Gauge #: 0119**
Pressure Gauge reading (Pre-opening): -30	**Start Time: 12:48**
Pressure Gauge reading (Post-opening): -4	**End Time: 1:46**
Latitude:	**Longitude:**
Notes: TO-15 Short List	

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: SG-4	**Summa ID: 2460**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: Center of basement, Building 4	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 1 Hour**
Summa went to ambient pressure? N	**Gauge #: 0115**
Pressure Gauge reading (Pre-opening): -30	**Start Time: 12:40**
Pressure Gauge reading (Post-opening): -4	**End Time: 1:40**
Latitude:	**Longitude:**
Notes: TO-15 Short List.	

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: SG-5	**Summa ID: 0906**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: Basement of Building 11.	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 1 Hour**
Summa went to ambient pressure? N	**Gauge #: 0222**
Pressure Gauge reading (Pre-opening): -29	**Start Time: 12:35**
Pressure Gauge reading (Post-opening): -4	**End Time: 1:35**
Latitude:	**Longitude:**
Notes: TO-15 Short List	

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: SG-6	**Summa ID: 2408**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: NE Corner of basement, Building 6, intended to evaluate basement of Building 5, which is inaccessable.	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 1 Hour**
Summa went to ambient pressure? N	**Gauge #: 0238**
Pressure Gauge reading (Pre-opening): -29	**Start Time: 12:55**
Pressure Gauge reading (Post-opening): -2	**End Time: 1:55**
Latitude:	**Longitude:**
Notes: TO-15 Short List	

PANDEY

ENVIRONMENTAL, LLC

SOIL VAPOR: SUMMA CANISTER SAMPLING

FIELD DATA SHEET

Sample #: AA-1	**Summa ID: 2410**
Date: 2/21/13	**PID: N/A**
Site: Cincinnati Hudepohl	**Personnel: Harnocz**
Location: Yard A, near gate.	**Weather:** Light NE wind. Clear, ~40 F.
Method: Time-integrated/Summa Canisters	**Time: 2 Hour Regulator**
Summa went to ambient pressure? N	**Gauge #: 0094**
Pressure Gauge reading (Pre-opening): -31	**Start Time: 12:30**
Pressure Gauge reading (Post-opening): -4	**End Time: 2:20**
Latitude:	**Longitude:**
Notes: TO-15 Short List.	

Appendix F

Laboratory Analytical Data

Appendix F: Summary of Laboratories & Analytical Methods Used

Former Hudepohl Brewery – Cincinnati, Ohio

Laboratory	CL number (if Certified Lab)	Tests/Constituents	Analytical Method	Dates of Laboratory Analysis	Matrix
Pace Analytical - IN	0065	VOC	8260B	2/21/2013, 2/22/2013	Groundwater
		VOC	8260B	2/21/2013, 2/22/2013	Soil
		SVOC	8270C	2/21/2013, 2/22/2013	Soil
		Metals	6010B, 7141A	2/21/2013, 2/22/2013	Soil
		PAH	8270C	2/21/2013	Soil
		TPH	8015A, 8015B	2/21/2013, 2/22/2013	Soil
Pace Analytical - MN	0101	VOC	TO-15	2/21/2013	Soil Gas
Belmont Labs	0032	VOC	8260A	7/6/2010, 7/7/2010	Soil
		PAH	8270C	7/6/2010, 7/7/2010	Soil
		Metals	6010B, 7471	6/24/2010, 7/6/2010, 7/7/2010	Soil
		PCBs	8082	7/6/2010, 7/7/2010	Soil
		VOC	8260B	7/12/2010, 10/6/2010	Groundwater
		SVOC	8270	7/6/2010	Groundwater

AFFIDAVIT

[For submission made under OAC 3745-300-13 (N): Certified Laboratories providing data to a Volunteer, Certified Professional, Ohio EPA, or another person for a voluntary action; see also OAC 3745-300-04.]

STATE OF MINNESOTA

COUNTY OF HENNEPIN SS:

I, Carolynne Trout, being first duly sworn according to law deposes and states that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen (18) years old and competent to testify herein.

2. I was employed by Pace Analytical Services, Inc. as Project Manager and was authorized to submit this affidavit on behalf of Pandey Environmental for the attached report.

3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.

4. Pace Analytical Services, Inc. performed analyses on behalf of **Pandey Environmental** concerning a voluntary action at property "Hudepohl".

5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID	Date of Document
Pace 10220896 (Pandey Environmental)	03/04/13

6. Pace Analytical Services, Inc. was a VAP certified laboratory pursuant to OAC 3745-300 when it performed analysis referenced herein.

7. The analyses under this affidavit consist of certified data, as described by OAC 374-300-04(B).

8. Pace Analytical Services, Inc. performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.

9. The information, data, documents and reports submitted by Pace Analytical Services, Inc., identified in the attachment(s) of this affidavit and submitted for the purposes of conducting or completing this voluntary action are true, accurate and complete reporting of the results of analysis.

Further affiant sayeth naught

Affiant Signature

Sworn to before me this 4th day of March 2013

Name of Notary Public

Jessica Anne Lewis
Notary Public
Minnesota
My Commission Expires 01/31/2016

VAP certification #: CL0032

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 04, 2013

Nate Wanner
673 Mohawk St.
Suite 300
Columbus, OH 43206

RE: Project: Hudepohl
Pace Project No.: 10220896

Dear Nate Wanner:
Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron Fredrikson for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Alex Harnocz, Pandey Environmental
Jason Martin, Pandey Environmental

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Hudepohl
Pace Project No.: 10220896

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Hudepohl
Pace Project No.: 10220896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10220896001	**AA-1**	Air	02/21/13 14:20	02/25/13 09:15
10220896002	**SG-1**	Air	02/21/13 14:00	02/25/13 09:15
10220896003	**SG-2**	Air	02/21/13 13:54	02/25/13 09:15
10220896004	**SG-3**	Air	02/21/13 13:46	02/25/13 09:15
10220896005	**SG-4**	Air	02/21/13 13:40	02/25/13 09:15
10220896006	**SG-5**	Air	02/21/13 13:35	02/25/13 09:15
10220896007	**SG-6**	Air	02/21/13 13:55	02/25/13 09:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Hudepohl
Pace Project No.: 10220896

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10220896001	**AA-1**	TO-15	CJR	6
10220896002	**SG-1**	TO-15	CJR	6
10220896003	**SG-2**	TO-15	CJR	6
10220896004	**SG-3**	TO-15	CJR	6
10220896005	**SG-4**	TO-15	CJR	6
10220896006	**SG-5**	TO-15	CJR	6
10220896007	**SG-6**	TO-15	CJR	6

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: AA-1 **Lab ID: 10220896001** Collected: 02/21/13 14:20 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 01:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 01:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 01:06	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		03/02/13 01:06	127-18-4	
Trichloroethene	**1.1**	ug/m3	0.96	1.74		03/02/13 01:06	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		03/02/13 01:06	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: SG-1 **Lab ID: 10220896002** Collected: 02/21/13 14:00 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		03/02/13 03:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		03/02/13 03:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		03/02/13 03:32	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.68		03/02/13 03:32	127-18-4	
Trichloroethene	**2.3**	ug/m3	0.92	1.68		03/02/13 03:32	79-01-6	
Vinyl chloride	ND	ug/m3	0.44	1.68		03/02/13 03:32	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: SG-2 **Lab ID: 10220896003** Collected: 02/21/13 13:54 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 01:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 01:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 01:35	156-60-5	
Tetrachloroethene	**1.3**	ug/m3	1.2	1.74		03/02/13 01:35	127-18-4	
Trichloroethene	**1.4**	ug/m3	0.96	1.74		03/02/13 01:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		03/02/13 01:35	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: SG-3 **Lab ID: 10220896004** Collected: 02/21/13 13:46 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 03:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 03:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 03:03	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		03/02/13 03:03	127-18-4	
Trichloroethene	ND	ug/m3	0.96	1.74		03/02/13 03:03	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		03/02/13 03:03	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: SG-4 **Lab ID: 10220896005** Collected: 02/21/13 13:40 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 02:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 02:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 02:04	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		03/02/13 02:04	127-18-4	
Trichloroethene	ND	ug/m3	0.96	1.74		03/02/13 02:04	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		03/02/13 02:04	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: SG-5 **Lab ID: 10220896006** Collected: 02/21/13 13:35 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		03/02/13 02:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		03/02/13 02:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		03/02/13 02:33	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.68		03/02/13 02:33	127-18-4	
Trichloroethene	**9.7**	ug/m3	0.92	1.68		03/02/13 02:33	79-01-6	
Vinyl chloride	ND	ug/m3	0.44	1.68		03/02/13 02:33	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 10220896

Sample: SG-6 **Lab ID: 10220896007** Collected: 02/21/13 13:55 Received: 02/25/13 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 04:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 04:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		03/02/13 04:01	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		03/02/13 04:01	127-18-4	
Trichloroethene	**2.8**	ug/m3	0.96	1.74		03/02/13 04:01	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		03/02/13 04:01	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 10220896

QC Batch: AIR/16862 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10220896001, 10220896002, 10220896003, 10220896004, 10220896005, 10220896006, 10220896007

METHOD BLANK: 1384875 Matrix: Air
Associated Lab Samples: 10220896001, 10220896002, 10220896003, 10220896004, 10220896005, 10220896006, 10220896007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	ND	0.81	03/01/13 15:43	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	03/01/13 15:43	
Tetrachloroethene	ug/m3	ND	0.69	03/01/13 15:43	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/01/13 15:43	
Trichloroethene	ug/m3	ND	0.55	03/01/13 15:43	
Vinyl chloride	ug/m3	ND	0.26	03/01/13 15:43	

LABORATORY CONTROL SAMPLE: 1384876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/m3	40.3	30.9	77	64-136	
cis-1,2-Dichloroethene	ug/m3	40.3	40.7	101	73-135	
Tetrachloroethene	ug/m3	69	74.9	109	66-135	
trans-1,2-Dichloroethene	ug/m3	40.3	30.5	76	68-129	
Trichloroethene	ug/m3	54.6	57.8	106	68-134	
Vinyl chloride	ug/m3	26	23.0	89	64-134	

SAMPLE DUPLICATE: 1385702

Parameter	Units	10220999002 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/m3	ND	ND		25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Hudepohl
Pace Project No.: 10220896

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hudepohl
Pace Project No.: 10220896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10220896001	**AA-1**	TO-15	AIR/16862		
10220896002	**SG-1**	TO-15	AIR/16862		
10220896003	**SG-2**	TO-15	AIR/16862		
10220896004	**SG-3**	TO-15	AIR/16862		
10220896005	**SG-4**	TO-15	AIR/16862		
10220896006	**SG-5**	TO-15	AIR/16862		
10220896007	**SG-6**	TO-15	AIR/16862		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10270896

09103

Page: 1 of 1

Section A Required Client Information:

Company: Pandey Environmental, LLC
Address: 673 Mohawk St. Ste 305
Columbus, OH. 43206
Email To: nwanner@pandeyenvironmental.com
Phone: 614-444-2072 Fax: 614-444-2079
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Nate Wanner
Copy To:
Purchase Order No.:
Project Name: Hudepohl
Project Number:

Section C Invoice Information:

Attention: Nate Wanner
Company Name:
Address:
Pace Quote Reference: Std. pricing
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☒ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: OH

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	AA-1	1LC		2-21-13	12:30	2-21-13	3:20	-31	-4	2410	0094								X		
2	SG-1				1:00		3:00	-29	-4	1133	0362								X		
3	SG-2				12:53		1:54	-29	-2	1316	0028								X		
4	SG-3				12:48		1:46	-30	-4	6887	0119								X		
5	SG-4				12:40		1:40	-30	-4	2460	0115								X		
6	SG-5				12:35		1:35	-29	-4	9906	0222								X		
7	SG-6				12:55		1:55	-29	-2	2408	0238								X		
8																					
9																					
10																					
11																					
12																					

Comments:

* Short List, please refer to email.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jason Martin	2-21-13	3:00	CLT Pace	2/25/13	9:15

SAMPLE CONDITIONS

AMB	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Martin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2-21-13

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.07	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Pandey Env. LLC

Project #: WO# : 10220896

10220896

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: (9612417) 4684335 15269584

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other:

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** AMB **Thermom. Used:** ☐ B88A912167504 ☐ 80512447 ☑ 72337080

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** CLT 2/25/13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air (Cans)				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: 7 Air Cans, 7 Flow Controllers

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SG-1	PACE 2410		FC 0074		
SG-1	" 1133		" 0362		
SG-2	" 1316		" 0028		
SG-3	" 0887		" 0119		
SG-4	" 2466		" 0115		
SG-5	" 0906		" 0222		
SG-6	" 2408		" 0238		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 02/26/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

March 06, 2013

Mr. Nate Wanner
Pandey Environmental, LLC
673 Mohawk
Suite 300
Columbus, OH 43206

RE: Project: Hudepohl
Pace Project No.: 5076644

Dear Mr. Wanner:
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt

kenneth.hunt@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

March 05, 2013

Mr. Nate Wanner
Pandey Environmental, LLC
673 Mohawk
Suite 300
Columbus, OH 43206

RE: Project: Hudepohl
Pace Project No.: 5076593

Dear Mr. Wanner:
Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt

kenneth.hunt@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

CERTIFICATIONS

Project:	Hudepohl
Pace Project No.:	5076593

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Hudepohl
Pace Project No.: 5076593

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5076593001	**MW-7:2-4'**	Solid	02/20/13 12:10	02/22/13 12:41
5076593002	**MW-7:18-20'**	Solid	02/20/13 12:15	02/22/13 12:41
5076593003	**SB-13:12-14'**	Solid	02/20/13 10:55	02/22/13 12:41
5076593004	**MW-6:2-4'**	Solid	02/21/13 11:07	02/22/13 12:41
5076593005	**MW-6:12-14'**	Solid	02/21/13 11:15	02/22/13 12:41
5076593006	**MW-3**	Water	02/21/13 15:20	02/22/13 12:41
5076593007	**PW-1**	Water	02/21/13 14:40	02/22/13 12:41
5076593008	**TRIP BLANK**	Water	02/21/13 08:00	02/22/13 12:41

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Hudepohl
Pace Project No.: 5076593

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5076593001	**MW-7:2-4'**	EPA 8015 Mod Ext	RAK	4	PASI-I
		EPA 8015 Mod Pur	PTH	2	PASI-I
		EPA 6010	LLB	7	PASI-I
		EPA 7471	BKK	1	PASI-I
		EPA 8270	KES	62	PASI-I
		EPA 8260	JLZ	67	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5076593002	**MW-7:18-20'**	EPA 8015 Mod Ext	RAK	4	PASI-I
		EPA 8015 Mod Pur	PTH	2	PASI-I
		EPA 6010	LLB	7	PASI-I
		EPA 7471	BKK	1	PASI-I
		EPA 8270	KES	62	PASI-I
		EPA 8260	JLZ	67	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5076593003	**SB-13:12-14'**	EPA 8015 Mod Ext	RAK	4	PASI-I
		EPA 8015 Mod Pur	PTH	2	PASI-I
		EPA 6010	LLB	7	PASI-I
		EPA 7471	BKK	1	PASI-I
		EPA 8270	KES	62	PASI-I
		EPA 8260	JLZ	67	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5076593004	**MW-6:2-4'**	EPA 8015 Mod Ext	RAK	4	PASI-I
		EPA 8015 Mod Pur	PTH	2	PASI-I
		EPA 6010	LLB	7	PASI-I
		EPA 7471	BKK	1	PASI-I
		EPA 8270	KES	62	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5076593005	**MW-6:12-14'**	EPA 8270 by SIM	CEM	19	PASI-I
		EPA 8260	JLZ	67	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5076593006	**MW-3**	EPA 8260	JLZ	67	PASI-I
5076593007	**PW-1**	EPA 8260	JLZ	67	PASI-I
5076593008	**TRIP BLANK**	EPA 8260	JLZ	67	PASI-I

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:2-4' **Lab ID: 5076593001** Collected: 02/20/13 12:10 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 TPH Ohio Microwave	Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546							
Total Petroleum Hydrocarbons	ND	mg/kg	21.1	1	02/26/13 12:05	02/27/13 17:20		
TPH (C10-C20)	ND	mg/kg	10.6	1	02/26/13 12:05	02/27/13 17:20		
TPH (C20-C34)	ND	mg/kg	10.6	1	02/26/13 12:05	02/27/13 17:20		
Surrogates								
n-Pentacosane (S)	84	%.	30-126	1	02/26/13 12:05	02/27/13 17:20	629-99-2	
8015 Gasoline Range Organics	Analytical Method: EPA 8015 Mod Pur							
TPH (C06-C12)	ND	mg/kg	1.1	1		03/01/13 13:55		
Surrogates								
4-Bromofluorobenzene (S)	102	%.	30-163	1		03/01/13 13:55	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**3.2**	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7440-38-2	
Barium	**12.1**	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7440-39-3	
Cadmium	ND	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7440-43-9	
Chromium	**5.4**	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7440-47-3	
Lead	**7.3**	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7439-92-1	
Selenium	ND	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7782-49-2	
Silver	ND	mg/kg	1.8	1	02/23/13 11:00	02/25/13 11:50	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.21	1	02/28/13 15:30	03/01/13 12:06	7439-97-6	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	83-32-9	
Acenaphthylene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	208-96-8	
Anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	207-08-9	
Benzyl alcohol	ND	mg/kg	0.70	1	02/28/13 12:20	03/01/13 17:12	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.70	1	02/28/13 12:20	03/01/13 17:12	59-50-7	
4-Chloroaniline	ND	mg/kg	0.70	1	02/28/13 12:20	03/01/13 17:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	91-58-7	
2-Chlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	7005-72-3	
Chrysene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	53-70-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:2-4' **Lab ID: 5076593001** Collected: 02/20/13 12:10 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Dibenzofuran	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	132-64-9	
2,4-Dichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	120-83-2	
Diethylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	105-67-9	
Dimethylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/01/13 17:12	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/01/13 17:12	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	117-81-7	
Fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	206-44-0	
Fluorene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	86-73-7	
Hexachlorocyclopentadiene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	77-47-4	
Hexachloroethane	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	193-39-5	
Isophorone	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.70	1	02/28/13 12:20	03/01/13 17:12		
Naphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	91-20-3	
2-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/01/13 17:12	88-74-4	
3-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/01/13 17:12	99-09-2	
4-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/01/13 17:12	100-01-6	
Nitrobenzene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	98-95-3	
2-Nitrophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	88-75-5	
4-Nitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/01/13 17:12	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	86-30-6	
Phenanthrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	85-01-8	
Phenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	108-95-2	
Pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/01/13 17:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	66	%.	26-98	1	02/28/13 12:20	03/01/13 17:12	4165-60-0	
2-Fluorobiphenyl (S)	57	%.	36-94	1	02/28/13 12:20	03/01/13 17:12	321-60-8	
p-Terphenyl-d14 (S)	59	%.	32-112	1	02/28/13 12:20	03/01/13 17:12	1718-51-0	
Phenol-d5 (S)	69	%.	33-98	1	02/28/13 12:20	03/01/13 17:12	4165-62-2	
2-Fluorophenol (S)	68	%.	29-97	1	02/28/13 12:20	03/01/13 17:12	367-12-4	
2,4,6-Tribromophenol (S)	74	%.	24-114	1	02/28/13 12:20	03/01/13 17:12	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		02/28/13 14:57	67-64-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:2-4' **Lab ID: 5076593001** Collected: 02/20/13 12:10 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acrolein	ND	mg/kg	0.11	1		02/28/13 14:57	107-02-8	
Benzene	ND	mg/kg	0.0053	1		02/28/13 14:57	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		02/28/13 14:57	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		02/28/13 14:57	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		02/28/13 14:57	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		02/28/13 14:57	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		02/28/13 14:57	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		02/28/13 14:57	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		02/28/13 14:57	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		02/28/13 14:57	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		02/28/13 14:57	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		02/28/13 14:57	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		02/28/13 14:57	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		02/28/13 14:57	124-48-1	
Dibromomethane	ND	mg/kg	0.0053	1		02/28/13 14:57	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		02/28/13 14:57	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		02/28/13 14:57	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		02/28/13 14:57	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		02/28/13 14:57	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		02/28/13 14:57	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		02/28/13 14:57	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		02/28/13 14:57	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		02/28/13 14:57	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		02/28/13 14:57	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		02/28/13 14:57	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		02/28/13 14:57	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		02/28/13 14:57	97-63-2	
2-Hexanone	ND	mg/kg	0.11	1		02/28/13 14:57	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		02/28/13 14:57	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		02/28/13 14:57	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		02/28/13 14:57	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		02/28/13 14:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		02/28/13 14:57	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		02/28/13 14:57	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:2-4' **Lab ID: 5076593001** Collected: 02/20/13 12:10 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
n-Propylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	103-65-1	
Styrene	ND	mg/kg	0.0053	1		02/28/13 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		02/28/13 14:57	127-18-4	
Toluene	ND	mg/kg	0.0053	1		02/28/13 14:57	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		02/28/13 14:57	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		02/28/13 14:57	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		02/28/13 14:57	75-69-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		02/28/13 14:57	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		02/28/13 14:57	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		02/28/13 14:57	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		02/28/13 14:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	71-125	1		02/28/13 14:57	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		02/28/13 14:57	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		02/28/13 14:57	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.3**	%	0.10	1		02/27/13 13:13		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:18-20' **Lab ID: 5076593002** Collected: 02/20/13 12:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 TPH Ohio Microwave	Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546							
Total Petroleum Hydrocarbons	ND	mg/kg	21.3	1	02/26/13 12:05	02/27/13 17:40		
TPH (C10-C20)	ND	mg/kg	10.7	1	02/26/13 12:05	02/27/13 17:40		
TPH (C20-C34)	ND	mg/kg	10.7	1	02/26/13 12:05	02/27/13 17:40		
Surrogates								
n-Pentacosane (S)	61	%.	30-126	1	02/26/13 12:05	02/27/13 17:40	629-99-2	
8015 Gasoline Range Organics	Analytical Method: EPA 8015 Mod Pur							
TPH (C06-C12)	ND	mg/kg	1.1	1		03/01/13 14:21		
Surrogates								
4-Bromofluorobenzene (S)	96	%.	30-163	1		03/01/13 14:21	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**8.0**	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7440-38-2	
Barium	**23.3**	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7440-39-3	
Cadmium	ND	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7440-43-9	
Chromium	**5.1**	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7440-47-3	
Lead	**6.1**	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7439-92-1	
Selenium	ND	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7782-49-2	
Silver	ND	mg/kg	1.9	1	02/23/13 11:00	02/25/13 11:53	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.22	1	02/28/13 15:30	03/01/13 12:08	7439-97-6	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	83-32-9	
Acenaphthylene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	208-96-8	
Anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	207-08-9	
Benzyl alcohol	ND	mg/kg	0.70	1	02/28/13 12:20	03/04/13 11:27	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.70	1	02/28/13 12:20	03/04/13 11:27	59-50-7	
4-Chloroaniline	ND	mg/kg	0.70	1	02/28/13 12:20	03/04/13 11:27	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	91-58-7	
2-Chlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	7005-72-3	
Chrysene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	53-70-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:18-20' **Lab ID: 5076593002** Collected: 02/20/13 12:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Dibenzofuran	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	132-64-9	
2,4-Dichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	120-83-2	
Diethylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	105-67-9	
Dimethylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 11:27	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 11:27	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	117-81-7	
Fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	206-44-0	
Fluorene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	86-73-7	
Hexachlorocyclopentadiene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	77-47-4	
Hexachloroethane	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	193-39-5	
Isophorone	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.70	1	02/28/13 12:20	03/04/13 11:27		
Naphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	91-20-3	
2-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 11:27	88-74-4	
3-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 11:27	99-09-2	
4-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 11:27	100-01-6	
Nitrobenzene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	98-95-3	
2-Nitrophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	88-75-5	
4-Nitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 11:27	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	86-30-6	
Phenanthrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	85-01-8	
Phenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	108-95-2	
Pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 11:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%.	26-98	1	02/28/13 12:20	03/04/13 11:27	4165-60-0	
2-Fluorobiphenyl (S)	66	%.	36-94	1	02/28/13 12:20	03/04/13 11:27	321-60-8	
p-Terphenyl-d14 (S)	75	%.	32-112	1	02/28/13 12:20	03/04/13 11:27	1718-51-0	
Phenol-d5 (S)	74	%.	33-98	1	02/28/13 12:20	03/04/13 11:27	4165-62-2	
2-Fluorophenol (S)	74	%.	29-97	1	02/28/13 12:20	03/04/13 11:27	367-12-4	
2,4,6-Tribromophenol (S)	78	%.	24-114	1	02/28/13 12:20	03/04/13 11:27	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		02/28/13 15:31	67-64-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:18-20' **Lab ID: 5076593002** Collected: 02/20/13 12:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acrolein	ND	mg/kg	0.11	1		02/28/13 15:31	107-02-8	
Benzene	ND	mg/kg	0.0053	1		02/28/13 15:31	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		02/28/13 15:31	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		02/28/13 15:31	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		02/28/13 15:31	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		02/28/13 15:31	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		02/28/13 15:31	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		02/28/13 15:31	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		02/28/13 15:31	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		02/28/13 15:31	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		02/28/13 15:31	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		02/28/13 15:31	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		02/28/13 15:31	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		02/28/13 15:31	124-48-1	
Dibromomethane	ND	mg/kg	0.0053	1		02/28/13 15:31	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		02/28/13 15:31	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		02/28/13 15:31	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		02/28/13 15:31	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		02/28/13 15:31	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		02/28/13 15:31	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		02/28/13 15:31	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		02/28/13 15:31	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		02/28/13 15:31	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		02/28/13 15:31	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		02/28/13 15:31	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		02/28/13 15:31	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		02/28/13 15:31	97-63-2	
2-Hexanone	ND	mg/kg	0.11	1		02/28/13 15:31	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		02/28/13 15:31	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		02/28/13 15:31	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		02/28/13 15:31	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		02/28/13 15:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		02/28/13 15:31	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		02/28/13 15:31	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-7:18-20' **Lab ID: 5076593002** Collected: 02/20/13 12:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
n-Propylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	103-65-1	
Styrene	ND	mg/kg	0.0053	1		02/28/13 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		02/28/13 15:31	127-18-4	
Toluene	ND	mg/kg	0.0053	1		02/28/13 15:31	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		02/28/13 15:31	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		02/28/13 15:31	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		02/28/13 15:31	75-69-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		02/28/13 15:31	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		02/28/13 15:31	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		02/28/13 15:31	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		02/28/13 15:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	71-125	1		02/28/13 15:31	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		02/28/13 15:31	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		02/28/13 15:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.2**	%	0.10	1		02/27/13 13:13		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: SB-13:12-14' **Lab ID: 5076593003** Collected: 02/20/13 10:55 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 TPH Ohio Microwave	Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546							
Total Petroleum Hydrocarbons	ND	mg/kg	21.8	1	02/26/13 12:05	02/27/13 17:26		
TPH (C10-C20)	ND	mg/kg	10.9	1	02/26/13 12:05	02/27/13 17:26		
TPH (C20-C34)	ND	mg/kg	10.9	1	02/26/13 12:05	02/27/13 17:26		
Surrogates								
n-Pentacosane (S)	62	%.	30-126	1	02/26/13 12:05	02/27/13 17:26	629-99-2	
8015 Gasoline Range Organics	Analytical Method: EPA 8015 Mod Pur							
TPH (C06-C12)	ND	mg/kg	1.1	1		03/01/13 14:47		
Surrogates								
4-Bromofluorobenzene (S)	94	%.	30-163	1		03/01/13 14:47	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**9.0**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7440-38-2	
Barium	**41.9**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7440-39-3	
Cadmium	ND	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7440-43-9	
Chromium	**7.8**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7440-47-3	
Lead	**6.5**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7439-92-1	
Selenium	ND	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7782-49-2	
Silver	ND	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:04	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.20	1	02/28/13 15:30	03/01/13 12:10	7439-97-6	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	83-32-9	
Acenaphthylene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	208-96-8	
Anthracene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	207-08-9	
Benzyl alcohol	ND	mg/kg	0.72	1	02/28/13 12:20	03/04/13 12:30	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.72	1	02/28/13 12:20	03/04/13 12:30	59-50-7	
4-Chloroaniline	ND	mg/kg	0.72	1	02/28/13 12:20	03/04/13 12:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	91-58-7	
2-Chlorophenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	7005-72-3	
Chrysene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	53-70-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: SB-13:12-14' **Lab ID: 5076593003** Collected: 02/20/13 10:55 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Dibenzofuran	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	132-64-9	
2,4-Dichlorophenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	120-83-2	
Diethylphthalate	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	105-67-9	
Dimethylphthalate	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 12:30	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 12:30	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	117-81-7	
Fluoranthene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	206-44-0	
Fluorene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	86-73-7	
Hexachlorocyclopentadiene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	77-47-4	
Hexachloroethane	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	193-39-5	
Isophorone	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.72	1	02/28/13 12:20	03/04/13 12:30		
Naphthalene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	91-20-3	
2-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 12:30	88-74-4	
3-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 12:30	99-09-2	
4-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 12:30	100-01-6	
Nitrobenzene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	98-95-3	
2-Nitrophenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	88-75-5	
4-Nitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 12:30	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	86-30-6	
Phenanthrene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	85-01-8	
Phenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	108-95-2	
Pyrene	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.36	1	02/28/13 12:20	03/04/13 12:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	75	%.	26-98	1	02/28/13 12:20	03/04/13 12:30	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	36-94	1	02/28/13 12:20	03/04/13 12:30	321-60-8	
p-Terphenyl-d14 (S)	75	%.	32-112	1	02/28/13 12:20	03/04/13 12:30	1718-51-0	
Phenol-d5 (S)	73	%.	33-98	1	02/28/13 12:20	03/04/13 12:30	4165-62-2	
2-Fluorophenol (S)	73	%.	29-97	1	02/28/13 12:20	03/04/13 12:30	367-12-4	
2,4,6-Tribromophenol (S)	77	%.	24-114	1	02/28/13 12:20	03/04/13 12:30	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		02/28/13 17:11	67-64-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: SB-13:12-14' **Lab ID: 5076593003** Collected: 02/20/13 10:55 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acrolein	ND	mg/kg	0.11	1		02/28/13 17:11	107-02-8	
Benzene	ND	mg/kg	0.0054	1		02/28/13 17:11	71-43-2	
Bromobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.0054	1		02/28/13 17:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0054	1		02/28/13 17:11	75-27-4	
Bromoform	ND	mg/kg	0.0054	1		02/28/13 17:11	75-25-2	
Bromomethane	ND	mg/kg	0.0054	1		02/28/13 17:11	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		02/28/13 17:11	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		02/28/13 17:11	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0054	1		02/28/13 17:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	108-90-7	
Chloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	75-00-3	
Chloroform	ND	mg/kg	0.0054	1		02/28/13 17:11	67-66-3	
Chloromethane	ND	mg/kg	0.0054	1		02/28/13 17:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0054	1		02/28/13 17:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0054	1		02/28/13 17:11	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0054	1		02/28/13 17:11	124-48-1	
Dibromomethane	ND	mg/kg	0.0054	1		02/28/13 17:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		02/28/13 17:11	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0054	1		02/28/13 17:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0054	1		02/28/13 17:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0054	1		02/28/13 17:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	1		02/28/13 17:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0054	1		02/28/13 17:11	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0054	1		02/28/13 17:11	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0054	1		02/28/13 17:11	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0054	1		02/28/13 17:11	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0054	1		02/28/13 17:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0054	1		02/28/13 17:11	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		02/28/13 17:11	97-63-2	
2-Hexanone	ND	mg/kg	0.11	1		02/28/13 17:11	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		02/28/13 17:11	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0054	1		02/28/13 17:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0054	1		02/28/13 17:11	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		02/28/13 17:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		02/28/13 17:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0054	1		02/28/13 17:11	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: SB-13:12-14' **Lab ID: 5076593003** Collected: 02/20/13 10:55 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
n-Propylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	103-65-1	
Styrene	ND	mg/kg	0.0054	1		02/28/13 17:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0054	1		02/28/13 17:11	127-18-4	
Toluene	ND	mg/kg	0.0054	1		02/28/13 17:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0054	1		02/28/13 17:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0054	1		02/28/13 17:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0054	1		02/28/13 17:11	75-69-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0054	1		02/28/13 17:11	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		02/28/13 17:11	108-05-4	
Vinyl chloride	ND	mg/kg	0.0054	1		02/28/13 17:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		02/28/13 17:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	71-125	1		02/28/13 17:11	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		02/28/13 17:11	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		02/28/13 17:11	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.1**	%	0.10	1		02/27/13 13:14		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-6:2-4' **Lab ID: 5076593004** Collected: 02/21/13 11:07 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 TPH Ohio Microwave	Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546							
Total Petroleum Hydrocarbons	**30.9**	mg/kg	23.3	1	02/26/13 12:05	02/27/13 16:25		
TPH (C10-C20)	ND	mg/kg	11.6	1	02/26/13 12:05	02/27/13 16:25		
TPH (C20-C34)	**25.9**	mg/kg	11.6	1	02/26/13 12:05	02/27/13 16:25		
Surrogates								
n-Pentacosane (S)	91	%.	30-126	1	02/26/13 12:05	02/27/13 16:25	629-99-2	
8015 Gasoline Range Organics	Analytical Method: EPA 8015 Mod Pur							
TPH (C06-C12)	ND	mg/kg	1.2	1		03/01/13 23:42		
Surrogates								
4-Bromofluorobenzene (S)	103	%.	30-163	1		03/01/13 23:42	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**9.1**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7440-38-2	
Barium	**167**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7440-39-3	
Cadmium	ND	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7440-43-9	
Chromium	**15.8**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7440-47-3	
Lead	**66.8**	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7439-92-1	
Selenium	ND	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7782-49-2	
Silver	ND	mg/kg	2.1	1	02/23/13 11:00	02/25/13 12:07	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**1.2**	mg/kg	0.23	1	02/28/13 15:30	03/01/13 12:12	7439-97-6	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	83-32-9	
Acenaphthylene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	208-96-8	
Anthracene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	50-32-8	
Benzo(b)fluoranthene	**0.46**	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	207-08-9	
Benzyl alcohol	ND	mg/kg	0.77	1	02/28/13 12:20	03/04/13 15:40	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.77	1	02/28/13 12:20	03/04/13 15:40	59-50-7	
4-Chloroaniline	ND	mg/kg	0.77	1	02/28/13 12:20	03/04/13 15:40	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	91-58-7	
2-Chlorophenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	7005-72-3	
Chrysene	**0.41**	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	53-70-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-6:2-4' **Lab ID: 5076593004** Collected: 02/21/13 11:07 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Dibenzofuran	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	132-64-9	
2,4-Dichlorophenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	120-83-2	
Diethylphthalate	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	105-67-9	
Dimethylphthalate	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.9	1	02/28/13 12:20	03/04/13 15:40	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	1	02/28/13 12:20	03/04/13 15:40	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	117-81-7	
Fluoranthene	**0.71**	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	206-44-0	
Fluorene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	86-73-7	
Hexachlorocyclopentadiene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	77-47-4	
Hexachloroethane	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	193-39-5	
Isophorone	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.77	1	02/28/13 12:20	03/04/13 15:40		
Naphthalene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	1	02/28/13 12:20	03/04/13 15:40	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	1	02/28/13 12:20	03/04/13 15:40	99-09-2	
4-Nitroaniline	ND	mg/kg	1.9	1	02/28/13 12:20	03/04/13 15:40	100-01-6	
Nitrobenzene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	98-95-3	
2-Nitrophenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	1	02/28/13 12:20	03/04/13 15:40	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	86-30-6	
Phenanthrene	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	85-01-8	
Phenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	108-95-2	
Pyrene	**0.62**	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.38	1	02/28/13 12:20	03/04/13 15:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%.	26-98	1	02/28/13 12:20	03/04/13 15:40	4165-60-0	
2-Fluorobiphenyl (S)	71	%.	36-94	1	02/28/13 12:20	03/04/13 15:40	321-60-8	
p-Terphenyl-d14 (S)	84	%.	32-112	1	02/28/13 12:20	03/04/13 15:40	1718-51-0	
Phenol-d5 (S)	78	%.	33-98	1	02/28/13 12:20	03/04/13 15:40	4165-62-2	
2-Fluorophenol (S)	77	%.	29-97	1	02/28/13 12:20	03/04/13 15:40	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	24-114	1	02/28/13 12:20	03/04/13 15:40	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.1**	%	0.10	1		02/27/13 13:14		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-6:12-14' **Lab ID: 5076593005** Collected: 02/21/13 11:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	83-32-9	
Acenaphthylene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	208-96-8	
Anthracene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	120-12-7	
Benzo(a)anthracene	**0.0071**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	50-32-8	
Benzo(b)fluoranthene	**0.0080**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	205-99-2	
Benzo(g,h,i)perylene	**0.0074**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	191-24-2	
Benzo(k)fluoranthene	**0.0078**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	207-08-9	
Chrysene	**0.0083**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	218-01-9	
Dibenz(a,h)anthracene	**0.0071**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	53-70-3	
Fluoranthene	**0.0070**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	206-44-0	
Fluorene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0074**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	193-39-5	
2-Methylnaphthalene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	91-57-6	
Naphthalene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	91-20-3	
Phenanthrene	ND	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	85-01-8	
Pyrene	**0.0065**	mg/kg	0.0057	1	02/25/13 11:13	02/26/13 01:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71	%.	46-109	1	02/25/13 11:13	02/26/13 01:01	321-60-8	
p-Terphenyl-d14 (S)	77	%.	43-107	1	02/25/13 11:13	02/26/13 01:01	1718-51-0	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		02/28/13 17:45	67-64-1	
Acrolein	ND	mg/kg	0.11	1		02/28/13 17:45	107-02-8	
Benzene	ND	mg/kg	0.0057	1		02/28/13 17:45	71-43-2	
Bromobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	108-86-1	
Bromochloromethane	ND	mg/kg	0.0057	1		02/28/13 17:45	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0057	1		02/28/13 17:45	75-27-4	
Bromoform	ND	mg/kg	0.0057	1		02/28/13 17:45	75-25-2	
Bromomethane	ND	mg/kg	0.0057	1		02/28/13 17:45	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.029	1		02/28/13 17:45	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		02/28/13 17:45	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0057	1		02/28/13 17:45	56-23-5	
Chlorobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	108-90-7	
Chloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	75-00-3	
Chloroform	ND	mg/kg	0.0057	1		02/28/13 17:45	67-66-3	
Chloromethane	ND	mg/kg	0.0057	1		02/28/13 17:45	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0057	1		02/28/13 17:45	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0057	1		02/28/13 17:45	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0057	1		02/28/13 17:45	124-48-1	
Dibromomethane	ND	mg/kg	0.0057	1		02/28/13 17:45	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	541-73-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-6:12-14' **Lab ID: 5076593005** Collected: 02/21/13 11:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,4-Dichlorobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		02/28/13 17:45	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0057	1		02/28/13 17:45	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0057	1		02/28/13 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0057	1		02/28/13 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0057	1		02/28/13 17:45	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0057	1		02/28/13 17:45	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0057	1		02/28/13 17:45	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0057	1		02/28/13 17:45	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0057	1		02/28/13 17:45	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0057	1		02/28/13 17:45	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0057	1		02/28/13 17:45	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		02/28/13 17:45	97-63-2	
2-Hexanone	ND	mg/kg	0.11	1		02/28/13 17:45	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		02/28/13 17:45	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0057	1		02/28/13 17:45	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0057	1		02/28/13 17:45	99-87-6	
Methylene Chloride	ND	mg/kg	0.023	1		02/28/13 17:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.029	1		02/28/13 17:45	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0057	1		02/28/13 17:45	1634-04-4	
n-Propylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	103-65-1	
Styrene	ND	mg/kg	0.0057	1		02/28/13 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0057	1		02/28/13 17:45	127-18-4	
Toluene	ND	mg/kg	0.0057	1		02/28/13 17:45	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0057	1		02/28/13 17:45	79-00-5	
Trichloroethene	ND	mg/kg	0.0057	1		02/28/13 17:45	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0057	1		02/28/13 17:45	75-69-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0057	1		02/28/13 17:45	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		02/28/13 17:45	108-05-4	
Vinyl chloride	ND	mg/kg	0.0057	1		02/28/13 17:45	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		02/28/13 17:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	71-125	1		02/28/13 17:45	1868-53-7	
Toluene-d8 (S)	98	%.	76-124	1		02/28/13 17:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		02/28/13 17:45	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-6:12-14' **Lab ID: 5076593005** Collected: 02/21/13 11:15 Received: 02/22/13 12:41 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.8**	%	0.10	1		02/27/13 13:14		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-3 **Lab ID: 5076593006** Collected: 02/21/13 15:20 Received: 02/22/13 12:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/28/13 19:25	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/28/13 19:25	107-02-8	
Benzene	ND	ug/L	5.0	1		02/28/13 19:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/28/13 19:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/28/13 19:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/13 19:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/13 19:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/28/13 19:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/28/13 19:25	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/28/13 19:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/13 19:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/13 19:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/28/13 19:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/13 19:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/28/13 19:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/28/13 19:25	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/28/13 19:25	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/13 19:25	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		02/28/13 19:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 19:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 19:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 19:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/28/13 19:25	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/28/13 19:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/13 19:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/13 19:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/13 19:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/13 19:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/13 19:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/13 19:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/28/13 19:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/28/13 19:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/28/13 19:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/13 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/13 19:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/28/13 19:25	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		02/28/13 19:25	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/28/13 19:25	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/28/13 19:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/28/13 19:25	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/28/13 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/28/13 19:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/28/13 19:25	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: MW-3 **Lab ID: 5076593006** Collected: 02/21/13 15:20 Received: 02/22/13 12:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	103-65-1	
Styrene	ND	ug/L	5.0	1		02/28/13 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/13 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/13 19:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/13 19:25	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/13 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/28/13 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/28/13 19:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/13 19:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/13 19:25	79-00-5	
Trichloroethene	**22.9**	ug/L	5.0	1		02/28/13 19:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/28/13 19:25	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/28/13 19:25	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		02/28/13 19:25	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/13 19:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/28/13 19:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	85	%.	83-123	1		02/28/13 19:25	1868-53-7	
4-Bromofluorobenzene (S)	108	%.	72-125	1		02/28/13 19:25	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		02/28/13 19:25	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: PW-1 **Lab ID: 5076593007** Collected: 02/21/13 14:40 Received: 02/22/13 12:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/28/13 21:06	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/28/13 21:06	107-02-8	
Benzene	ND	ug/L	5.0	1		02/28/13 21:06	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/28/13 21:06	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/28/13 21:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/13 21:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/13 21:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/28/13 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/28/13 21:06	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/28/13 21:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/13 21:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/13 21:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/28/13 21:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/13 21:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/28/13 21:06	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/28/13 21:06	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/28/13 21:06	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/13 21:06	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		02/28/13 21:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/28/13 21:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/28/13 21:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/13 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/13 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/13 21:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/13 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/13 21:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/13 21:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/28/13 21:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/28/13 21:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/28/13 21:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/13 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/13 21:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/28/13 21:06	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		02/28/13 21:06	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/28/13 21:06	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/28/13 21:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/28/13 21:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/28/13 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/28/13 21:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/28/13 21:06	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: PW-1 **Lab ID: 5076593007** Collected: 02/21/13 14:40 Received: 02/22/13 12:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	103-65-1	
Styrene	ND	ug/L	5.0	1		02/28/13 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/13 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/13 21:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/13 21:06	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/13 21:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/13 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/13 21:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/13 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/28/13 21:06	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/28/13 21:06	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		02/28/13 21:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/13 21:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/28/13 21:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	87	%.	83-123	1		02/28/13 21:06	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/28/13 21:06	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		02/28/13 21:06	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: TRIP BLANK **Lab ID: 5076593008** Collected: 02/21/13 08:00 Received: 02/22/13 12:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/28/13 21:39	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/28/13 21:39	107-02-8	
Benzene	ND	ug/L	5.0	1		02/28/13 21:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/28/13 21:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/28/13 21:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/13 21:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/13 21:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/28/13 21:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/28/13 21:39	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/28/13 21:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/13 21:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/13 21:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/28/13 21:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/13 21:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/28/13 21:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/28/13 21:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/28/13 21:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/13 21:39	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		02/28/13 21:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/28/13 21:39	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/28/13 21:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/13 21:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/13 21:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/13 21:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/13 21:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/13 21:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/13 21:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/28/13 21:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/28/13 21:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/28/13 21:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/13 21:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/13 21:39	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/28/13 21:39	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		02/28/13 21:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/28/13 21:39	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/28/13 21:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/28/13 21:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/28/13 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/28/13 21:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/28/13 21:39	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076593

Sample: TRIP BLANK **Lab ID: 5076593008** Collected: 02/21/13 08:00 Received: 02/22/13 12:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	103-65-1	
Styrene	ND	ug/L	5.0	1		02/28/13 21:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/13 21:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/13 21:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/13 21:39	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/13 21:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/28/13 21:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/13 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/13 21:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/13 21:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/28/13 21:39	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/28/13 21:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		02/28/13 21:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/13 21:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/28/13 21:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		02/28/13 21:39	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		02/28/13 21:39	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		02/28/13 21:39	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: GCV/16363 Analysis Method: EPA 8015 Mod Pur
QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 Solid GCV
Associated Lab Samples: 5076593001, 5076593002, 5076593003

METHOD BLANK: 878734 Matrix: Solid
Associated Lab Samples: 5076593001, 5076593002, 5076593003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C12)	mg/kg	ND	1.0	03/01/13 12:38	
4-Bromofluorobenzene (S)	%.	95	30-163	03/01/13 12:38	

LABORATORY CONTROL SAMPLE: 878735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	mg/kg	10	10.3	103	88-132	
4-Bromofluorobenzene (S)	%.			98	30-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878736 878737

Parameter	Units	5076576007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C12)	mg/kg	ND	9.2	8.6	10	9.2	109	107	12-136	8	20	
4-Bromofluorobenzene (S)	%.						106	104	30-163		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: GCV/16367
QC Batch Method: EPA 8015 Mod Pur
Analysis Method: EPA 8015 Mod Pur
Analysis Description: 8015 Solid GCV
Associated Lab Samples: 5076593004

METHOD BLANK: 879058 Matrix: Solid
Associated Lab Samples: 5076593004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C12)	mg/kg	ND	1.0	03/01/13 22:00	
4-Bromofluorobenzene (S)	%.	81	30-163	03/01/13 22:00	

LABORATORY CONTROL SAMPLE: 879059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	mg/kg	10	11.2	112	88-132	
4-Bromofluorobenzene (S)	%.			99	30-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 879060 879061

Parameter	Units	5076569003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C12)	mg/kg	25.1	11.4	11.4	36.5	121	100	845	12-136	107	20	M0,R1
4-Bromofluorobenzene (S)	%.						114	267	30-163		20	R1,S0

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: MERP/4470 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004

METHOD BLANK: 878158 Matrix: Solid
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	03/01/13 11:25	

LABORATORY CONTROL SAMPLE: 878159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878160 878161

Parameter	Units	5076567001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.53	.55	0.51	0.53	97	97	75-125	4	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: MPRP/10733 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004

METHOD BLANK: 875928 Matrix: Solid
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	02/25/13 10:37	
Barium	mg/kg	ND	2.0	02/25/13 10:37	
Cadmium	mg/kg	ND	2.0	02/25/13 10:37	
Chromium	mg/kg	ND	2.0	02/25/13 10:37	
Lead	mg/kg	ND	2.0	02/25/13 10:37	
Selenium	mg/kg	ND	2.0	02/25/13 10:37	
Silver	mg/kg	ND	2.0	02/25/13 10:37	

LABORATORY CONTROL SAMPLE: 875929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	55.2	110	80-120	
Barium	mg/kg	50	51.8	104	80-120	
Cadmium	mg/kg	50	52.0	104	80-120	
Chromium	mg/kg	50	51.6	103	80-120	
Lead	mg/kg	50	52.1	104	80-120	
Selenium	mg/kg	50	53.4	107	80-120	
Silver	mg/kg	25	26.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 875930 875931

Parameter	Units	5076591001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	8.0	57.2	62.2	61.6	68.6	94	97	75-125	11	20	
Barium	mg/kg	83.6	57.2	62.2	117	142	59	93	75-125	19	20	M0
Cadmium	mg/kg	ND	57.2	62.2	54.5	59.4	95	95	75-125	8	20	
Chromium	mg/kg	24.6	57.2	62.2	70.6	80.4	80	90	75-125	13	20	
Lead	mg/kg	11.8	57.2	62.2	61.2	68.6	87	91	75-125	11	20	
Selenium	mg/kg	ND	57.2	62.2	53.7	57.3	94	92	75-125	7	20	
Silver	mg/kg	ND	28.6	31.1	28.0	30.6	95	96	75-125	9	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: MSV/50895 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593005

METHOD BLANK: 878219 Matrix: Solid
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
1,1-Dichloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
1,1-Dichloroethene	mg/kg	ND	0.0050	02/28/13 12:09	
1,1-Dichloropropene	mg/kg	ND	0.0050	02/28/13 12:09	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
1,2-Dichloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
1,2-Dichloropropane	mg/kg	ND	0.0050	02/28/13 12:09	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
1,3-Dichloropropane	mg/kg	ND	0.0050	02/28/13 12:09	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
2,2-Dichloropropane	mg/kg	ND	0.0050	02/28/13 12:09	
2-Butanone (MEK)	mg/kg	ND	0.025	02/28/13 12:09	
2-Chlorotoluene	mg/kg	ND	0.0050	02/28/13 12:09	
2-Hexanone	mg/kg	ND	0.10	02/28/13 12:09	
4-Chlorotoluene	mg/kg	ND	0.0050	02/28/13 12:09	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	02/28/13 12:09	
Acetone	mg/kg	ND	0.10	02/28/13 12:09	
Acrolein	mg/kg	ND	0.10	02/28/13 12:09	
Benzene	mg/kg	ND	0.0050	02/28/13 12:09	
Bromobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
Bromochloromethane	mg/kg	ND	0.0050	02/28/13 12:09	
Bromodichloromethane	mg/kg	ND	0.0050	02/28/13 12:09	
Bromoform	mg/kg	ND	0.0050	02/28/13 12:09	
Bromomethane	mg/kg	ND	0.0050	02/28/13 12:09	
Carbon disulfide	mg/kg	ND	0.010	02/28/13 12:09	
Carbon tetrachloride	mg/kg	ND	0.0050	02/28/13 12:09	
Chlorobenzene	mg/kg	ND	0.0050	02/28/13 12:09	
Chloroethane	mg/kg	ND	0.0050	02/28/13 12:09	
Chloroform	mg/kg	ND	0.0050	02/28/13 12:09	
Chloromethane	mg/kg	ND	0.0050	02/28/13 12:09	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	02/28/13 12:09	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	02/28/13 12:09	
Dibromochloromethane	mg/kg	ND	0.0050	02/28/13 12:09	
Dibromomethane	mg/kg	ND	0.0050	02/28/13 12:09	
Dichlorodifluoromethane	mg/kg	ND	0.0050	02/28/13 12:09	
Ethyl methacrylate	mg/kg	ND	0.10	02/28/13 12:09	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

METHOD BLANK: 878219 Matrix: Solid

Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
Iodomethane	mg/kg	ND	0.10	02/28/13 12:09	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	02/28/13 12:09	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	02/28/13 12:09	
Methylene Chloride	mg/kg	ND	0.020	02/28/13 12:09	
n-Butylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
n-Propylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
p-Isopropyltoluene	mg/kg	ND	0.0050	02/28/13 12:09	
sec-Butylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
Styrene	mg/kg	ND	0.0050	02/28/13 12:09	
tert-Butylbenzene	mg/kg	ND	0.0050	02/28/13 12:09	
Tetrachloroethene	mg/kg	ND	0.0050	02/28/13 12:09	
Toluene	mg/kg	ND	0.0050	02/28/13 12:09	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	02/28/13 12:09	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	02/28/13 12:09	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	02/28/13 12:09	
Trichloroethene	mg/kg	ND	0.0050	02/28/13 12:09	
Trichlorofluoromethane	mg/kg	ND	0.0050	02/28/13 12:09	
Vinyl acetate	mg/kg	ND	0.10	02/28/13 12:09	
Vinyl chloride	mg/kg	ND	0.0050	02/28/13 12:09	
Xylene (Total)	mg/kg	ND	0.010	02/28/13 12:09	
4-Bromofluorobenzene (S)	%.	102	67-134	02/28/13 12:09	
Dibromofluoromethane (S)	%.	98	71-125	02/28/13 12:09	
Toluene-d8 (S)	%.	99	76-124	02/28/13 12:09	

LABORATORY CONTROL SAMPLE: 878220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.042	83	68-125	
1,1,1-Trichloroethane	mg/kg	.05	0.043	86	63-124	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.043	86	73-123	
1,1,2-Trichloroethane	mg/kg	.05	0.044	88	70-124	
1,1-Dichloroethane	mg/kg	.05	0.043	87	63-122	
1,1-Dichloroethene	mg/kg	.05	0.044	89	71-129	
1,1-Dichloropropene	mg/kg	.05	0.042	84	71-122	
1,2,3-Trichlorobenzene	mg/kg	.05	0.043	86	68-123	
1,2,4-Trichlorobenzene	mg/kg	.05	0.044	88	68-125	
1,2,4-Trimethylbenzene	mg/kg	.05	0.044	88	69-120	
1,2-Dichlorobenzene	mg/kg	.05	0.045	90	71-121	
1,2-Dichloroethane	mg/kg	.05	0.050	100	74-120	
1,2-Dichloropropane	mg/kg	.05	0.043	86	71-117	
1,3,5-Trimethylbenzene	mg/kg	.05	0.043	86	64-119	
1,3-Dichlorobenzene	mg/kg	.05	0.045	90	70-122	
1,3-Dichloropropane	mg/kg	.05	0.041	82	68-118	
1,4-Dichlorobenzene	mg/kg	.05	0.045	91	71-118	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 878220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	mg/kg	.05	0.043	87	62-119	
2-Butanone (MEK)	mg/kg	.25	0.22	86	38-154	
2-Chlorotoluene	mg/kg	.05	0.045	90	71-120	
2-Hexanone	mg/kg	.25	0.23	93	50-134	
4-Chlorotoluene	mg/kg	.05	0.041	83	72-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	91	66-122	
Acetone	mg/kg	.25	0.24	97	10-200	
Acrolein	mg/kg	1	1.5	154	11-200	
Benzene	mg/kg	.05	0.042	83	73-115	
Bromobenzene	mg/kg	.05	0.043	86	64-130	
Bromochloromethane	mg/kg	.05	0.048	96	71-127	
Bromodichloromethane	mg/kg	.05	0.044	88	60-121	
Bromoform	mg/kg	.05	0.036	71	44-130	
Bromomethane	mg/kg	.05	0.075	149	48-175	
Carbon disulfide	mg/kg	.1	0.092	92	71-126	
Carbon tetrachloride	mg/kg	.05	0.039	78	57-127	
Chlorobenzene	mg/kg	.05	0.045	89	72-121	
Chloroethane	mg/kg	.05	0.056	112	72-141	
Chloroform	mg/kg	.05	0.046	91	74-114	
Chloromethane	mg/kg	.05	0.044	88	51-126	
cis-1,2-Dichloroethene	mg/kg	.05	0.039	78	72-115	
cis-1,3-Dichloropropene	mg/kg	.05	0.036	73	64-115	
Dibromochloromethane	mg/kg	.05	0.039	78	58-114	
Dibromomethane	mg/kg	.05	0.044	87	73-120	
Dichlorodifluoromethane	mg/kg	.05	0.077	155	32-167	
Ethyl methacrylate	mg/kg	.2	0.18	91	65-117	
Ethylbenzene	mg/kg	.05	0.046	92	73-120	
Iodomethane	mg/kg	.1	.071J	71	45-156	
Isopropylbenzene (Cumene)	mg/kg	.05	0.041	81	74-123	
Methyl-tert-butyl ether	mg/kg	.1	0.086	86	69-123	
Methylene Chloride	mg/kg	.05	0.040	80	58-124	
n-Butylbenzene	mg/kg	.05	0.044	88	71-118	
n-Propylbenzene	mg/kg	.05	0.043	86	70-120	
p-Isopropyltoluene	mg/kg	.05	0.045	89	71-123	
sec-Butylbenzene	mg/kg	.05	0.044	88	66-122	
Styrene	mg/kg	.05	0.046	92	75-118	
tert-Butylbenzene	mg/kg	.05	0.036	71	54-124	
Tetrachloroethene	mg/kg	.05	0.042	84	66-126	
Toluene	mg/kg	.05	0.045	90	69-115	
trans-1,2-Dichloroethene	mg/kg	.05	0.039	78	69-120	
trans-1,3-Dichloropropene	mg/kg	.05	0.035	69	61-116	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.18	91	59-130	
Trichloroethene	mg/kg	.05	0.051	101	71-117	
Trichlorofluoromethane	mg/kg	.05	0.057	113	67-138	
Vinyl acetate	mg/kg	.2	.093J	47	35-134	
Vinyl chloride	mg/kg	.05	0.054	107	64-127	
Xylene (Total)	mg/kg	.15	0.13	85	69-117	
4-Bromofluorobenzene (S)	%.			102	67-134	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 878220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			97	71-125	
Toluene-d8 (S)	%.			101	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878221 878222

Parameter	Units	5076593002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	.053	.053	0.039	0.041	72	77	10-111	5	20	
1,1,1-Trichloroethane	mg/kg	ND	.053	.053	0.044	0.046	83	87	36-128	5	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.053	.053	0.039	0.042	74	78	10-130	6	20	
1,1,2-Trichloroethane	mg/kg	ND	.053	.053	0.043	0.045	80	85	10-126	6	20	
1,1-Dichloroethane	mg/kg	ND	.053	.053	0.046	0.048	86	90	39-126	5	20	
1,1-Dichloroethene	mg/kg	ND	.053	.053	0.049	0.051	92	96	42-147	4	20	
1,1-Dichloropropene	mg/kg	ND	.053	.053	0.043	0.045	80	84	29-129	5	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.053	.053	0.025	0.026	48	48	10-91	0	20	
1,2,4-Trichlorobenzene	mg/kg	ND	.053	.053	0.027	0.027	51	51	10-88	1	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.053	.053	0.037	0.038	70	71	10-109	2	20	
1,2-Dichlorobenzene	mg/kg	ND	.053	.053	0.036	0.037	67	69	10-104	2	20	
1,2-Dichloroethane	mg/kg	ND	.053	.053	0.054	0.056	101	105	19-126	4	20	
1,2-Dichloropropane	mg/kg	ND	.053	.053	0.043	0.045	81	85	24-123	5	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.053	.053	0.037	0.038	69	71	10-118	3	20	
1,3-Dichlorobenzene	mg/kg	ND	.053	.053	0.036	0.037	67	68	10-108	2	20	
1,3-Dichloropropane	mg/kg	ND	.053	.053	0.040	0.043	75	80	12-121	7	20	
1,4-Dichlorobenzene	mg/kg	ND	.053	.053	0.036	0.037	68	69	10-104	2	20	
2,2-Dichloropropane	mg/kg	ND	.053	.053	0.042	0.046	78	86	32-124	9	20	
2-Butanone (MEK)	mg/kg	ND	.27	.27	0.25	0.27	93	100	10-183	7	20	
2-Chlorotoluene	mg/kg	ND	.053	.053	0.039	0.040	73	76	10-128	3	20	
2-Hexanone	mg/kg	ND	.27	.27	0.25	0.27	95	102	10-158	8	20	
4-Chlorotoluene	mg/kg	ND	.053	.053	0.035	0.036	65	67	10-119	3	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.27	.27	0.24	0.26	89	96	12-130	8	20	
Acetone	mg/kg	ND	.27	.27	0.34	0.37	129	138	10-200	7	20	
Acrolein	mg/kg	ND	1.1	1.1	1.5	1.7	144	156	10-200	7	20	
Benzene	mg/kg	ND	.053	.053	0.043	0.045	80	84	23-138	5	20	
Bromobenzene	mg/kg	ND	.053	.053	0.038	0.041	72	76	10-111	6	20	
Bromochloromethane	mg/kg	ND	.053	.053	0.058	0.056	109	104	26-126	5	20	
Bromodichloromethane	mg/kg	ND	.053	.053	0.045	0.047	84	89	10-120	6	20	
Bromoform	mg/kg	ND	.053	.053	0.033	0.036	61	68	10-106	11	20	
Bromomethane	mg/kg	ND	.053	.053	0.077	0.087	144	162	10-190	12	20	
Carbon disulfide	mg/kg	ND	.11	.11	0.10	0.10	94	98	31-128	4	20	
Carbon tetrachloride	mg/kg	ND	.053	.053	0.038	0.041	72	77	26-126	7	20	
Chlorobenzene	mg/kg	ND	.053	.053	0.042	0.043	78	81	10-120	3	20	
Chloroethane	mg/kg	ND	.053	.053	0.059	0.063	111	117	18-186	5	20	
Chloroform	mg/kg	ND	.053	.053	0.048	0.051	91	96	29-126	6	20	
Chloromethane	mg/kg	ND	.053	.053	0.049	0.050	91	93	34-131	2	20	
cis-1,2-Dichloroethene	mg/kg	ND	.053	.053	0.040	0.042	75	79	28-132	5	20	
cis-1,3-Dichloropropene	mg/kg	ND	.053	.053	0.034	0.037	64	69	10-108	8	20	
Dibromochloromethane	mg/kg	ND	.053	.053	0.037	0.040	69	75	10-108	8	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878221 878222

Parameter	Units	5076593002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromomethane	mg/kg	ND	.053	.053	0.046	0.049	86	92	13-122	7	20	
Dichlorodifluoromethane	mg/kg	ND	.053	.053	0.083	0.087	156	163	10-197	4	20	
Ethyl methacrylate	mg/kg	ND	.21	.21	0.18	0.19	83	89	10-130	7	20	
Ethylbenzene	mg/kg	ND	.053	.053	0.043	0.044	80	82	10-135	2	20	
Iodomethane	mg/kg	ND	.11	.11	.087J	0.11	82	101	10-163		20	
Isopropylbenzene (Cumene)	mg/kg	ND	.053	.053	0.037	0.038	70	71	10-121	2	20	
Methyl-tert-butyl ether	mg/kg	ND	.11	.11	0.088	0.095	82	89	20-140	8	20	
Methylene Chloride	mg/kg	ND	.053	.053	0.048	0.047	79	75	28-131	4	20	
n-Butylbenzene	mg/kg	ND	.053	.053	0.033	0.033	61	62	10-110	1	20	
n-Propylbenzene	mg/kg	ND	.053	.053	0.037	0.038	70	71	10-123	2	20	
p-Isopropyltoluene	mg/kg	ND	.053	.053	0.036	0.036	67	68	10-117	2	20	
sec-Butylbenzene	mg/kg	ND	.053	.053	0.036	0.037	68	70	10-123	2	20	
Styrene	mg/kg	ND	.053	.053	0.041	0.043	77	80	10-119	3	20	
tert-Butylbenzene	mg/kg	ND	.053	.053	0.031	0.032	59	60	10-105	2	20	
Tetrachloroethene	mg/kg	ND	.053	.053	0.039	0.041	73	76	10-122	4	20	
Toluene	mg/kg	ND	.053	.053	0.044	0.046	83	86	10-131	3	20	
trans-1,2-Dichloroethene	mg/kg	ND	.053	.053	0.041	0.043	77	81	32-136	5	20	
trans-1,3-Dichloropropene	mg/kg	ND	.053	.053	0.032	0.035	60	65	10-101	8	20	
trans-1,4-Dichloro-2-butene	mg/kg	ND	.21	.21	0.17	0.18	80	86	10-104	7	20	
Trichloroethene	mg/kg	ND	.053	.053	0.053	0.054	99	102	15-133	3	20	
Trichlorofluoromethane	mg/kg	ND	.053	.053	0.062	0.066	116	123	37-152	6	20	
Vinyl acetate	mg/kg	ND	.21	.21	.067J	.071J	31	33	10-103		20	
Vinyl chloride	mg/kg	ND	.053	.053	0.058	0.061	109	115	41-147	5	20	
Xylene (Total)	mg/kg	ND	.16	.16	0.12	0.12	74	76	10-131	3	20	
4-Bromofluorobenzene (S)	%.						104	104	67-134		20	
Dibromofluoromethane (S)	%.						100	102	71-125		20	
Toluene-d8 (S)	%.						101	100	76-124		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: MSV/50896 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5076593006, 5076593007, 5076593008

METHOD BLANK: 878223 Matrix: Water
Associated Lab Samples: 5076593006, 5076593007, 5076593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/28/13 12:43	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/28/13 12:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/28/13 12:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/28/13 12:43	
1,1-Dichloroethane	ug/L	ND	5.0	02/28/13 12:43	
1,1-Dichloroethene	ug/L	ND	5.0	02/28/13 12:43	
1,1-Dichloropropene	ug/L	ND	5.0	02/28/13 12:43	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	02/28/13 12:43	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/13 12:43	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	02/28/13 12:43	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/28/13 12:43	
1,2-Dichloroethane	ug/L	ND	5.0	02/28/13 12:43	
1,2-Dichloropropane	ug/L	ND	5.0	02/28/13 12:43	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	02/28/13 12:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/28/13 12:43	
1,3-Dichloropropane	ug/L	ND	5.0	02/28/13 12:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/28/13 12:43	
2,2-Dichloropropane	ug/L	ND	5.0	02/28/13 12:43	
2-Butanone (MEK)	ug/L	ND	25.0	02/28/13 12:43	
2-Chlorotoluene	ug/L	ND	5.0	02/28/13 12:43	
2-Hexanone	ug/L	ND	25.0	02/28/13 12:43	
4-Chlorotoluene	ug/L	ND	5.0	02/28/13 12:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	02/28/13 12:43	
Acetone	ug/L	ND	100	02/28/13 12:43	
Acrolein	ug/L	ND	50.0	02/28/13 12:43	
Benzene	ug/L	ND	5.0	02/28/13 12:43	
Bromobenzene	ug/L	ND	5.0	02/28/13 12:43	
Bromochloromethane	ug/L	ND	5.0	02/28/13 12:43	
Bromodichloromethane	ug/L	ND	5.0	02/28/13 12:43	
Bromoform	ug/L	ND	5.0	02/28/13 12:43	
Bromomethane	ug/L	ND	5.0	02/28/13 12:43	
Carbon disulfide	ug/L	ND	10.0	02/28/13 12:43	
Carbon tetrachloride	ug/L	ND	5.0	02/28/13 12:43	
Chlorobenzene	ug/L	ND	5.0	02/28/13 12:43	
Chloroethane	ug/L	ND	5.0	02/28/13 12:43	
Chloroform	ug/L	ND	5.0	02/28/13 12:43	
Chloromethane	ug/L	ND	5.0	02/28/13 12:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/28/13 12:43	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/28/13 12:43	
Dibromochloromethane	ug/L	ND	5.0	02/28/13 12:43	
Dibromomethane	ug/L	ND	5.0	02/28/13 12:43	
Dichlorodifluoromethane	ug/L	ND	5.0	02/28/13 12:43	
Ethyl methacrylate	ug/L	ND	100	02/28/13 12:43	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

METHOD BLANK: 878223 Matrix: Water

Associated Lab Samples: 5076593006, 5076593007, 5076593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	5.0	02/28/13 12:43	
Iodomethane	ug/L	ND	10.0	02/28/13 12:43	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	02/28/13 12:43	
Methyl-tert-butyl ether	ug/L	ND	4.0	02/28/13 12:43	
Methylene Chloride	ug/L	ND	5.0	02/28/13 12:43	
n-Butylbenzene	ug/L	ND	5.0	02/28/13 12:43	
n-Propylbenzene	ug/L	ND	5.0	02/28/13 12:43	
p-Isopropyltoluene	ug/L	ND	5.0	02/28/13 12:43	
sec-Butylbenzene	ug/L	ND	5.0	02/28/13 12:43	
Styrene	ug/L	ND	5.0	02/28/13 12:43	
tert-Butylbenzene	ug/L	ND	5.0	02/28/13 12:43	
Tetrachloroethene	ug/L	ND	5.0	02/28/13 12:43	
Toluene	ug/L	ND	5.0	02/28/13 12:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/28/13 12:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/28/13 12:43	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/28/13 12:43	
Trichloroethene	ug/L	ND	5.0	02/28/13 12:43	
Trichlorofluoromethane	ug/L	ND	5.0	02/28/13 12:43	
Vinyl acetate	ug/L	ND	50.0	02/28/13 12:43	
Vinyl chloride	ug/L	ND	2.0	02/28/13 12:43	
Xylene (Total)	ug/L	ND	10.0	02/28/13 12:43	
4-Bromofluorobenzene (S)	%.	101	72-125	02/28/13 12:43	
Dibromofluoromethane (S)	%.	92	83-123	02/28/13 12:43	
Toluene-d8 (S)	%.	99	81-114	02/28/13 12:43	

LABORATORY CONTROL SAMPLE: 878224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.9	94	69-122	
1,1,1-Trichloroethane	ug/L	50	47.4	95	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	68-134	
1,1,2-Trichloroethane	ug/L	50	47.9	96	77-129	
1,1-Dichloroethane	ug/L	50	62.5	125	70-127	
1,1-Dichloroethene	ug/L	50	50.4	101	75-145	
1,1-Dichloropropene	ug/L	50	45.8	92	75-126	
1,2,3-Trichlorobenzene	ug/L	50	47.1	94	63-130	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	64-122	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	68-129	
1,2-Dichlorobenzene	ug/L	50	50.0	100	74-123	
1,2-Dichloroethane	ug/L	50	55.7	111	71-127	
1,2-Dichloropropane	ug/L	50	46.4	93	75-126	
1,3,5-Trimethylbenzene	ug/L	50	48.0	96	69-129	
1,3-Dichlorobenzene	ug/L	50	49.9	100	76-123	
1,3-Dichloropropane	ug/L	50	44.8	90	77-126	
1,4-Dichlorobenzene	ug/L	50	49.5	99	77-121	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 878224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.9	96	45-138	
2-Butanone (MEK)	ug/L	250	252	101	42-177	
2-Chlorotoluene	ug/L	50	50.0	100	74-129	
2-Hexanone	ug/L	250	263	105	57-162	
4-Chlorotoluene	ug/L	50	45.2	90	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	260	104	64-135	
Acetone	ug/L	250	268	107	10-200	
Acrolein	ug/L	1000	1750	175	10-200	
Benzene	ug/L	50	46.0	92	76-123	
Bromobenzene	ug/L	50	49.1	98	67-130	
Bromochloromethane	ug/L	50	53.4	107	58-153	
Bromodichloromethane	ug/L	50	48.9	98	71-124	
Bromoform	ug/L	50	39.7	79	64-116	
Bromomethane	ug/L	50	82.5	165	23-197	
Carbon disulfide	ug/L	100	109	109	55-146	
Carbon tetrachloride	ug/L	50	43.2	86	65-125	
Chlorobenzene	ug/L	50	49.1	98	78-120	
Chloroethane	ug/L	50	61.3	123	56-163	
Chloroform	ug/L	50	50.8	102	73-122	
Chloromethane	ug/L	50	48.5	97	46-146	
cis-1,2-Dichloroethene	ug/L	50	43.8	88	79-129	
cis-1,3-Dichloropropene	ug/L	50	40.4	81	66-123	
Dibromochloromethane	ug/L	50	43.2	86	70-123	
Dibromomethane	ug/L	50	48.3	97	73-123	
Dichlorodifluoromethane	ug/L	50	83.7	167	19-200	
Ethyl methacrylate	ug/L	200	204	102	70-127	
Ethylbenzene	ug/L	50	51.1	102	75-120	
Iodomethane	ug/L	100	93.8	94	16-181	
Isopropylbenzene (Cumene)	ug/L	50	45.7	91	73-123	
Methyl-tert-butyl ether	ug/L	100	122	122	66-128	
Methylene Chloride	ug/L	50	54.4	109	61-138	
n-Butylbenzene	ug/L	50	48.2	96	69-130	
n-Propylbenzene	ug/L	50	47.3	95	71-132	
p-Isopropyltoluene	ug/L	50	48.4	97	71-126	
sec-Butylbenzene	ug/L	50	48.0	96	69-130	
Styrene	ug/L	50	50.7	101	75-125	
tert-Butylbenzene	ug/L	50	39.2	78	49-114	
Tetrachloroethene	ug/L	50	45.7	91	57-125	
Toluene	ug/L	50	49.6	99	72-124	
trans-1,2-Dichloroethene	ug/L	50	59.0	118	71-145	
trans-1,3-Dichloropropene	ug/L	50	38.8	78	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	205	102	50-121	
Trichloroethene	ug/L	50	54.9	110	77-122	
Trichlorofluoromethane	ug/L	50	60.8	122	56-159	
Vinyl acetate	ug/L	200	136	68	27-119	
Vinyl chloride	ug/L	50	59.0	118	61-146	
Xylene (Total)	ug/L	150	141	94	72-126	
4-Bromofluorobenzene (S)	%.			103	72-125	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 878224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			98	83-123	
Toluene-d8 (S)	%.			102	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878225 878226

Parameter	Units	5076593006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	39.2	40.3	78	81	30-122	3	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	40.8	40.7	82	81	37-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.1	52.1	98	104	47-132	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.4	51.6	103	103	53-131	0	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.3	48.8	99	98	47-138	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	39.8	39.0	80	78	54-152	2	20	
1,1-Dichloropropene	ug/L	ND	50	50	43.5	41.9	87	84	47-136	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	36.5	34.8	73	70	15-132	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	35.2	33.3	70	67	10-130	5	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	33.5	31.9	65	62	10-141	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	40.5	41.2	81	82	20-137	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.1	49.7	100	99	42-139	1	20	
1,2-Dichloropropane	ug/L	ND	50	50	48.7	48.6	97	97	50-131	0	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	34.2	33.0	68	66	10-145	4	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	39.7	39.2	79	78	13-143	1	20	
1,3-Dichloropropane	ug/L	ND	50	50	46.9	46.7	94	93	53-130	0	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	39.3	38.7	79	77	13-140	2	20	
2,2-Dichloropropane	ug/L	ND	50	50	39.2	40.3	78	81	13-142	3	20	
2-Butanone (MEK)	ug/L	ND	250	250	256	257	103	103	43-142	0	20	
2-Chlorotoluene	ug/L	ND	50	50	42.4	42.9	85	86	15-145	1	20	
2-Hexanone	ug/L	ND	250	250	286	288	115	115	46-139	1	20	
4-Chlorotoluene	ug/L	ND	50	50	36.1	37.2	72	74	12-143	3	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	288	288	115	115	43-140	0	20	
Acetone	ug/L	ND	250	250	214	220	86	88	38-155	2	20	
Acrolein	ug/L	ND	1000	1000	1290	1310	129	131	11-200	2	20	
Benzene	ug/L	ND	50	50	47.5	46.4	95	93	52-134	2	20	
Bromobenzene	ug/L	ND	50	50	39.7	40.6	79	81	25-140	2	20	
Bromochloromethane	ug/L	ND	50	50	60.8	55.6	122	111	54-144	9	20	
Bromodichloromethane	ug/L	ND	50	50	42.3	42.6	85	85	42-128	1	20	
Bromoform	ug/L	ND	50	50	35.1	37.8	70	76	34-116	7	20	
Bromomethane	ug/L	ND	50	50	59.4	60.8	119	122	10-200	2	20	
Carbon disulfide	ug/L	ND	100	100	81.1	78.3	81	78	43-144	3	20	
Carbon tetrachloride	ug/L	ND	50	50	33.9	34.9	68	70	26-136	3	20	
Chlorobenzene	ug/L	ND	50	50	43.6	42.8	87	86	33-136	2	20	
Chloroethane	ug/L	ND	50	50	48.9	47.5	98	95	21-200	3	20	
Chloroform	ug/L	ND	50	50	48.0	47.0	96	94	50-134	2	20	
Chloromethane	ug/L	ND	50	50	39.0	37.7	78	75	32-160	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	44.7	44.1	89	88	48-145	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	37.0	37.9	74	76	35-116	2	20	
Dibromochloromethane	ug/L	ND	50	50	38.1	39.4	76	79	39-122	3	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878225 878226

Parameter	Units	5076593006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromomethane	ug/L	ND	50	50	47.3	46.5	95	93	49-134	2	20	
Dichlorodifluoromethane	ug/L	ND	50	50	66.9	63.7	134	127	35-200	5	20	
Ethyl methacrylate	ug/L	ND	200	200	201	198	101	99	54-123	2	20	
Ethylbenzene	ug/L	ND	50	50	43.9	42.7	88	85	29-132	3	20	
Iodomethane	ug/L	ND	100	100	59.4	63.7	59	64	10-171	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	34.3	34.7	69	69	11-146	1	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	93.4	93.2	93	93	39-137	0	20	
Methylene Chloride	ug/L	ND	50	50	43.4	42.8	87	86	47-141	1	20	
n-Butylbenzene	ug/L	ND	50	50	32.4	32.5	65	65	10-156	0	20	
n-Propylbenzene	ug/L	ND	50	50	37.2	38.6	74	77	10-148	4	20	
p-Isopropyltoluene	ug/L	ND	50	50	34.5	33.9	69	68	10-150	2	20	
sec-Butylbenzene	ug/L	ND	50	50	36.2	37.4	72	75	10-150	3	20	
Styrene	ug/L	ND	50	50	33.2	30.8	66	62	20-143	7	20	
tert-Butylbenzene	ug/L	ND	50	50	31.7	31.9	63	64	10-123	1	20	
Tetrachloroethene	ug/L	ND	50	50	40.5	39.3	81	79	30-124	3	20	
Toluene	ug/L	ND	50	50	49.4	48.6	99	97	42-130	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.0	44.0	90	88	48-144	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	33.0	34.4	66	69	24-114	4	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	169	177	84	89	22-120	5	20	
Trichloroethene	ug/L	22.9	50	50	72.1	70.9	98	96	44-130	2	20	
Trichlorofluoromethane	ug/L	ND	50	50	50.0	48.9	100	98	17-200	2	20	
Vinyl acetate	ug/L	ND	200	200	83.6	88.6	42	44	10-115	6	20	
Vinyl chloride	ug/L	ND	50	50	47.0	45.7	94	91	45-159	3	20	
Xylene (Total)	ug/L	ND	150	150	115	113	76	75	29-131	2	20	
4-Bromofluorobenzene (S)	%.						97	97	72-125		20	
Dibromofluoromethane (S)	%.						93	93	83-123		20	
Toluene-d8 (S)	%.						105	107	81-114		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: OEXT/32099 Analysis Method: EPA 8015 Mod Ext
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 TPH Ohio
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004

METHOD BLANK: 876670 Matrix: Solid
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	20.0	02/27/13 15:38	
TPH (C10-C20)	mg/kg	ND	10.0	02/27/13 15:38	
TPH (C20-C34)	mg/kg	ND	10.0	02/27/13 15:38	
n-Pentacosane (S)	%.	71	30-126	02/27/13 15:38	

LABORATORY CONTROL SAMPLE: 876671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	83.3	56.8	68	47-107	
n-Pentacosane (S)	%.			75	30-126	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 876672 876673

Parameter	Units	5076532014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Petroleum Hydrocarbons	mg/kg	187	96.1	96.1	385	414	206	236	23-115	7	20	M3
n-Pentacosane (S)	%.						107	118	30-126		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: OEXT/32087
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5076593005

METHOD BLANK: 876304
Matrix: Solid
Associated Lab Samples: 5076593005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	mg/kg	ND	0.0050	02/25/13 18:40	
Acenaphthene	mg/kg	ND	0.0050	02/25/13 18:40	
Acenaphthylene	mg/kg	ND	0.0050	02/25/13 18:40	
Anthracene	mg/kg	ND	0.0050	02/25/13 18:40	
Benzo(a)anthracene	mg/kg	ND	0.0050	02/25/13 18:40	
Benzo(a)pyrene	mg/kg	ND	0.0050	02/25/13 18:40	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	02/25/13 18:40	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	02/25/13 18:40	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	02/25/13 18:40	
Chrysene	mg/kg	ND	0.0050	02/25/13 18:40	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	02/25/13 18:40	
Fluoranthene	mg/kg	ND	0.0050	02/25/13 18:40	
Fluorene	mg/kg	ND	0.0050	02/25/13 18:40	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	02/25/13 18:40	
Naphthalene	mg/kg	ND	0.0050	02/25/13 18:40	
Phenanthrene	mg/kg	ND	0.0050	02/25/13 18:40	
Pyrene	mg/kg	ND	0.0050	02/25/13 18:40	
2-Fluorobiphenyl (S)	%.	68	46-109	02/25/13 18:40	
p-Terphenyl-d14 (S)	%.	77	43-107	02/25/13 18:40	

LABORATORY CONTROL SAMPLE: 876305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	mg/kg	.33	0.27	82	49-116	
Acenaphthene	mg/kg	.33	0.28	84	52-114	
Acenaphthylene	mg/kg	.33	0.28	85	52-119	
Anthracene	mg/kg	.33	0.30	89	55-124	
Benzo(a)anthracene	mg/kg	.33	0.33	100	52-122	
Benzo(a)pyrene	mg/kg	.33	0.35	104	56-131	
Benzo(b)fluoranthene	mg/kg	.33	0.37	111	54-125	
Benzo(g,h,i)perylene	mg/kg	.33	0.33	100	55-122	
Benzo(k)fluoranthene	mg/kg	.33	0.33	98	55-128	
Chrysene	mg/kg	.33	0.33	99	56-118	
Dibenz(a,h)anthracene	mg/kg	.33	0.34	102	56-125	
Fluoranthene	mg/kg	.33	0.34	102	55-125	
Fluorene	mg/kg	.33	0.31	92	54-120	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.34	103	56-124	
Naphthalene	mg/kg	.33	0.25	75	52-112	
Phenanthrene	mg/kg	.33	0.31	92	53-116	
Pyrene	mg/kg	.33	0.33	100	55-120	
2-Fluorobiphenyl (S)	%.			71	46-109	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 876305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			85	43-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 876306 876307

Parameter	Units	5076660010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Methylnaphthalene	mg/kg	ND	.38	.38	0.28	0.30	71	76	43-106	6	20	
Acenaphthene	mg/kg	ND	.38	.38	0.27	0.28	69	72	46-101	3	20	
Acenaphthylene	mg/kg	ND	.38	.38	0.28	0.29	73	74	47-105	2	20	
Anthracene	mg/kg	ND	.38	.38	0.27	0.28	69	72	39-112	3	20	
Benzo(a)anthracene	mg/kg	ND	.38	.38	0.29	0.35	76	90	36-105	16	20	
Benzo(a)pyrene	mg/kg	ND	.38	.38	0.29	0.33	75	85	34-113	13	20	
Benzo(b)fluoranthene	mg/kg	ND	.38	.38	0.30	0.34	78	87	33-111	10	20	
Benzo(g,h,i)perylene	mg/kg	ND	.38	.38	0.27	0.30	69	78	26-109	12	20	
Benzo(k)fluoranthene	mg/kg	ND	.38	.38	0.28	0.34	72	88	31-116	20	20	
Chrysene	mg/kg	ND	.38	.38	0.30	0.34	76	88	34-109	14	20	
Dibenz(a,h)anthracene	mg/kg	ND	.38	.38	0.29	0.31	75	79	32-111	6	20	
Fluoranthene	mg/kg	ND	.38	.38	0.30	0.36	77	94	33-117	19	20	
Fluorene	mg/kg	ND	.38	.38	0.29	0.29	75	76	44-107	1	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.38	.38	0.28	0.32	73	82	27-113	11	20	
Naphthalene	mg/kg	ND	.38	.38	0.27	0.29	71	75	45-106	6	20	
Phenanthrene	mg/kg	ND	.38	.38	0.29	0.30	73	78	42-103	6	20	
Pyrene	mg/kg	ND	.38	.38	0.29	0.35	75	91	36-111	19	20	
2-Fluorobiphenyl (S)	%.						65	64	46-109		20	
p-Terphenyl-d14 (S)	%.						76	76	43-107		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: OEXT/32119
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5076593001

METHOD BLANK: 877789
Matrix: Solid
Associated Lab Samples: 5076593001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	ND	0.33	03/01/13 12:59	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	03/01/13 12:59	
2,4-Dichlorophenol	mg/kg	ND	0.33	03/01/13 12:59	
2,4-Dimethylphenol	mg/kg	ND	0.33	03/01/13 12:59	
2,4-Dinitrophenol	mg/kg	ND	1.6	03/01/13 12:59	
2,4-Dinitrotoluene	mg/kg	ND	0.33	03/01/13 12:59	
2,6-Dinitrotoluene	mg/kg	ND	0.33	03/01/13 12:59	
2-Chloronaphthalene	mg/kg	ND	0.33	03/01/13 12:59	
2-Chlorophenol	mg/kg	ND	0.33	03/01/13 12:59	
2-Methylnaphthalene	mg/kg	ND	0.33	03/01/13 12:59	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	03/01/13 12:59	
2-Nitroaniline	mg/kg	ND	1.6	03/01/13 12:59	
2-Nitrophenol	mg/kg	ND	0.33	03/01/13 12:59	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.66	03/01/13 12:59	
3-Nitroaniline	mg/kg	ND	1.6	03/01/13 12:59	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	03/01/13 12:59	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	03/01/13 12:59	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	03/01/13 12:59	
4-Chloroaniline	mg/kg	ND	0.66	03/01/13 12:59	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	03/01/13 12:59	
4-Nitroaniline	mg/kg	ND	1.6	03/01/13 12:59	
4-Nitrophenol	mg/kg	ND	1.6	03/01/13 12:59	
Acenaphthene	mg/kg	ND	0.33	03/01/13 12:59	
Acenaphthylene	mg/kg	ND	0.33	03/01/13 12:59	
Anthracene	mg/kg	ND	0.33	03/01/13 12:59	
Benzo(a)anthracene	mg/kg	ND	0.33	03/01/13 12:59	
Benzo(a)pyrene	mg/kg	ND	0.33	03/01/13 12:59	
Benzo(b)fluoranthene	mg/kg	ND	0.33	03/01/13 12:59	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	03/01/13 12:59	
Benzo(k)fluoranthene	mg/kg	ND	0.33	03/01/13 12:59	
Benzyl alcohol	mg/kg	ND	0.66	03/01/13 12:59	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	03/01/13 12:59	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	03/01/13 12:59	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.33	03/01/13 12:59	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	03/01/13 12:59	
Butylbenzylphthalate	mg/kg	ND	0.33	03/01/13 12:59	
Chrysene	mg/kg	ND	0.33	03/01/13 12:59	
Di-n-butylphthalate	mg/kg	ND	0.33	03/01/13 12:59	
Di-n-octylphthalate	mg/kg	ND	0.33	03/01/13 12:59	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	03/01/13 12:59	
Dibenzofuran	mg/kg	ND	0.33	03/01/13 12:59	
Diethylphthalate	mg/kg	ND	0.33	03/01/13 12:59	
Dimethylphthalate	mg/kg	ND	0.33	03/01/13 12:59	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

METHOD BLANK: 877789 Matrix: Solid

Associated Lab Samples: 5076593001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoranthene	mg/kg	ND	0.33	03/01/13 12:59	
Fluorene	mg/kg	ND	0.33	03/01/13 12:59	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	03/01/13 12:59	
Hexachloroethane	mg/kg	ND	0.33	03/01/13 12:59	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	03/01/13 12:59	
Isophorone	mg/kg	ND	0.33	03/01/13 12:59	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	03/01/13 12:59	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	03/01/13 12:59	
Naphthalene	mg/kg	ND	0.33	03/01/13 12:59	
Nitrobenzene	mg/kg	ND	0.33	03/01/13 12:59	
Phenanthrene	mg/kg	ND	0.33	03/01/13 12:59	
Phenol	mg/kg	ND	0.33	03/01/13 12:59	
Pyrene	mg/kg	ND	0.33	03/01/13 12:59	
2,4,6-Tribromophenol (S)	%.	72	24-114	03/01/13 12:59	
2-Fluorobiphenyl (S)	%.	67	36-94	03/01/13 12:59	
2-Fluorophenol (S)	%.	72	29-97	03/01/13 12:59	
Nitrobenzene-d5 (S)	%.	70	26-98	03/01/13 12:59	
p-Terphenyl-d14 (S)	%.	76	32-112	03/01/13 12:59	
Phenol-d5 (S)	%.	71	33-98	03/01/13 12:59	

LABORATORY CONTROL SAMPLE: 877790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	2.5	75	49-102	
2-Chlorophenol	mg/kg	3.3	2.3	68	44-98	
2-Methylnaphthalene	mg/kg	3.3	2.4	72	49-94	
4-Chloro-3-methylphenol	mg/kg	3.3	2.5	74	53-103	
4-Nitrophenol	mg/kg	3.3	2.8	84	25-110	
Acenaphthene	mg/kg	3.3	2.6	78	55-103	
Acenaphthylene	mg/kg	3.3	2.6	79	58-107	
Anthracene	mg/kg	3.3	2.8	84	57-113	
Benzo(a)anthracene	mg/kg	3.3	2.6	78	56-110	
Benzo(a)pyrene	mg/kg	3.3	2.9	87	59-110	
Benzo(b)fluoranthene	mg/kg	3.3	2.8	85	53-109	
Benzo(g,h,i)perylene	mg/kg	3.3	2.6	78	55-109	
Benzo(k)fluoranthene	mg/kg	3.3	2.7	82	55-108	
Chrysene	mg/kg	3.3	2.6	78	57-108	
Dibenz(a,h)anthracene	mg/kg	3.3	2.7	80	53-111	
Fluoranthene	mg/kg	3.3	2.8	83	59-108	
Fluorene	mg/kg	3.3	2.6	78	57-107	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	2.7	80	54-110	
N-Nitroso-di-n-propylamine	mg/kg	3.3	2.3	68	46-96	
Naphthalene	mg/kg	3.3	2.3	68	44-100	
Phenanthrene	mg/kg	3.3	2.6	79	53-106	
Phenol	mg/kg	3.3	2.3	69	47-100	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 877790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	mg/kg	3.3	2.7	82	60-112	
2,4,6-Tribromophenol (S)	%.			79	24-114	
2-Fluorobiphenyl (S)	%.			73	36-94	
2-Fluorophenol (S)	%.			74	29-97	
Nitrobenzene-d5 (S)	%.			74	26-98	
p-Terphenyl-d14 (S)	%.			88	32-112	
Phenol-d5 (S)	%.			74	33-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 877791 877792

Parameter	Units	5076567001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	3.6	3.6	2.3	2.3	65	64	15-108	1	20	
2-Chlorophenol	mg/kg	ND	3.6	3.6	1.6	1.5	45	41	31-94	11	20	
2-Methylnaphthalene	mg/kg	ND	3.6	3.6	2.5	2.5	68	68	33-93	0	20	
4-Chloro-3-methylphenol	mg/kg	ND	3.6	3.6	2.4	2.4	66	66	35-102	0	20	
4-Nitrophenol	mg/kg	ND	3.6	3.6	ND	ND	13	14	10-125		20	
Acenaphthene	mg/kg	ND	3.6	3.6	2.8	2.7	77	76	36-98	1	20	
Acenaphthylene	mg/kg	ND	3.6	3.6	2.8	2.8	78	78	37-106	1	20	
Anthracene	mg/kg	ND	3.6	3.6	2.6	2.8	73	77	30-107	5	20	
Benzo(a)anthracene	mg/kg	ND	3.6	3.6	2.6	2.6	72	73	30-100	2	20	
Benzo(a)pyrene	mg/kg	ND	3.6	3.6	2.6	2.6	72	73	24-103	2	20	
Benzo(b)fluoranthene	mg/kg	ND	3.6	3.6	2.4	2.4	68	68	26-100	0	20	
Benzo(g,h,i)perylene	mg/kg	ND	3.6	3.6	2.7	2.8	75	77	24-100	3	20	
Benzo(k)fluoranthene	mg/kg	ND	3.6	3.6	2.6	2.6	71	73	29-100	2	20	
Chrysene	mg/kg	ND	3.6	3.6	2.7	2.7	75	76	30-99	1	20	
Dibenz(a,h)anthracene	mg/kg	ND	3.6	3.6	2.6	2.6	71	73	26-100	3	20	
Fluoranthene	mg/kg	ND	3.6	3.6	2.0	1.9	56	53	35-101	6	20	
Fluorene	mg/kg	ND	3.6	3.6	2.8	2.7	77	76	38-98	2	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	3.6	3.6	2.6	2.7	73	74	23-99	2	20	
N-Nitroso-di-n-propylamine	mg/kg	ND	3.6	3.6	2.3	2.1	64	59	33-96	8	20	
Naphthalene	mg/kg	ND	3.6	3.6	2.5	2.3	68	64	33-92	6	20	
Phenanthrene	mg/kg	ND	3.6	3.6	2.6	2.7	72	74	35-101	3	20	
Phenol	mg/kg	ND	3.6	3.6	2.3	2.1	65	59	32-99	9	20	
Pyrene	mg/kg	ND	3.6	3.6	1.8	1.7	51	48	37-103	5	20	
2,4,6-Tribromophenol (S)	%.						4	4	24-114		20	S0
2-Fluorobiphenyl (S)	%.						72	71	36-94		20	
2-Fluorophenol (S)	%.						45	40	29-97		20	
Nitrobenzene-d5 (S)	%.						66	61	26-98		20	
p-Terphenyl-d14 (S)	%.						52	49	32-112		20	
Phenol-d5 (S)	%.						69	63	33-98		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: OEXT/32120 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5076593002, 5076593003, 5076593004

METHOD BLANK: 877793 Matrix: Solid
Associated Lab Samples: 5076593002, 5076593003, 5076593004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4-Dichlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4-Dimethylphenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4-Dinitrophenol	mg/kg	ND	1.6	03/04/13 09:20	
2,4-Dinitrotoluene	mg/kg	ND	0.33	03/04/13 09:20	
2,6-Dinitrotoluene	mg/kg	ND	0.33	03/04/13 09:20	
2-Chloronaphthalene	mg/kg	ND	0.33	03/04/13 09:20	
2-Chlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2-Methylnaphthalene	mg/kg	ND	0.33	03/04/13 09:20	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	03/04/13 09:20	
2-Nitroaniline	mg/kg	ND	1.6	03/04/13 09:20	
2-Nitrophenol	mg/kg	ND	0.33	03/04/13 09:20	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.66	03/04/13 09:20	
3-Nitroaniline	mg/kg	ND	1.6	03/04/13 09:20	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	03/04/13 09:20	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	03/04/13 09:20	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	03/04/13 09:20	
4-Chloroaniline	mg/kg	ND	0.66	03/04/13 09:20	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	03/04/13 09:20	
4-Nitroaniline	mg/kg	ND	1.6	03/04/13 09:20	
4-Nitrophenol	mg/kg	ND	1.6	03/04/13 09:20	
Acenaphthene	mg/kg	ND	0.33	03/04/13 09:20	
Acenaphthylene	mg/kg	ND	0.33	03/04/13 09:20	
Anthracene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(a)anthracene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(a)pyrene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(b)fluoranthene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(k)fluoranthene	mg/kg	ND	0.33	03/04/13 09:20	
Benzyl alcohol	mg/kg	ND	0.66	03/04/13 09:20	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	03/04/13 09:20	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	03/04/13 09:20	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.33	03/04/13 09:20	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	03/04/13 09:20	
Butylbenzylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Chrysene	mg/kg	ND	0.33	03/04/13 09:20	
Di-n-butylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Di-n-octylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	03/04/13 09:20	
Dibenzofuran	mg/kg	ND	0.33	03/04/13 09:20	
Diethylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Dimethylphthalate	mg/kg	ND	0.33	03/04/13 09:20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

METHOD BLANK: 877793 Matrix: Solid

Associated Lab Samples: 5076593002, 5076593003, 5076593004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoranthene	mg/kg	ND	0.33	03/04/13 09:20	
Fluorene	mg/kg	ND	0.33	03/04/13 09:20	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	03/04/13 09:20	
Hexachloroethane	mg/kg	ND	0.33	03/04/13 09:20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	03/04/13 09:20	
Isophorone	mg/kg	ND	0.33	03/04/13 09:20	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	03/04/13 09:20	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	03/04/13 09:20	
Naphthalene	mg/kg	ND	0.33	03/04/13 09:20	
Nitrobenzene	mg/kg	ND	0.33	03/04/13 09:20	
Phenanthrene	mg/kg	ND	0.33	03/04/13 09:20	
Phenol	mg/kg	ND	0.33	03/04/13 09:20	
Pyrene	mg/kg	ND	0.33	03/04/13 09:20	
2,4,6-Tribromophenol (S)	%.	75	24-114	03/04/13 09:20	
2-Fluorobiphenyl (S)	%.	68	36-94	03/04/13 09:20	
2-Fluorophenol (S)	%.	72	29-97	03/04/13 09:20	
Nitrobenzene-d5 (S)	%.	71	26-98	03/04/13 09:20	
p-Terphenyl-d14 (S)	%.	80	32-112	03/04/13 09:20	
Phenol-d5 (S)	%.	72	33-98	03/04/13 09:20	

LABORATORY CONTROL SAMPLE: 877794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	2.1	64	49-102	
2-Chlorophenol	mg/kg	3.3	2.2	65	44-98	
2-Methylnaphthalene	mg/kg	3.3	2.2	65	49-94	
4-Chloro-3-methylphenol	mg/kg	3.3	2.1	62	53-103	
4-Nitrophenol	mg/kg	3.3	2.3	69	25-110	
Acenaphthene	mg/kg	3.3	2.2	65	55-103	
Acenaphthylene	mg/kg	3.3	2.2	67	58-107	
Anthracene	mg/kg	3.3	2.3	69	57-113	
Benzo(a)anthracene	mg/kg	3.3	2.1	64	56-110	
Benzo(a)pyrene	mg/kg	3.3	2.3	70	59-110	
Benzo(b)fluoranthene	mg/kg	3.3	2.2	65	53-109	
Benzo(g,h,i)perylene	mg/kg	3.3	2.2	65	55-109	
Benzo(k)fluoranthene	mg/kg	3.3	2.3	69	55-108	
Chrysene	mg/kg	3.3	2.2	65	57-108	
Dibenz(a,h)anthracene	mg/kg	3.3	2.2	67	53-111	
Fluoranthene	mg/kg	3.3	2.2	67	59-108	
Fluorene	mg/kg	3.3	2.2	65	57-107	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	2.2	67	54-110	
N-Nitroso-di-n-propylamine	mg/kg	3.3	2.0	61	46-96	
Naphthalene	mg/kg	3.3	2.1	63	44-100	
Phenanthrene	mg/kg	3.3	2.2	67	53-106	
Phenol	mg/kg	3.3	2.0	61	47-100	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

LABORATORY CONTROL SAMPLE: 877794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	mg/kg	3.3	2.3	69	60-112	
2,4,6-Tribromophenol (S)	%.			67	24-114	
2-Fluorobiphenyl (S)	%.			61	36-94	
2-Fluorophenol (S)	%.			66	29-97	
Nitrobenzene-d5 (S)	%.			66	26-98	
p-Terphenyl-d14 (S)	%.			71	32-112	
Phenol-d5 (S)	%.			67	33-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 877795 877796

Parameter	Units	5076593002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	3.5	3.5	2.3	2.6	64	75	15-108	15	20	
2-Chlorophenol	mg/kg	ND	3.5	3.5	2.2	2.6	63	74	31-94	17	20	
2-Methylnaphthalene	mg/kg	ND	3.5	3.5	2.2	2.7	62	75	33-93	20	20	
4-Chloro-3-methylphenol	mg/kg	ND	3.5	3.5	2.2	2.7	62	76	35-102	20	20	
4-Nitrophenol	mg/kg	ND	3.5	3.5	2.7	3.1	77	88	10-125	14	20	
Acenaphthene	mg/kg	ND	3.5	3.5	2.4	2.7	67	76	36-98	14	20	
Acenaphthylene	mg/kg	ND	3.5	3.5	2.4	2.8	69	79	37-106	14	20	
Anthracene	mg/kg	ND	3.5	3.5	2.5	2.9	70	82	30-107	15	20	
Benzo(a)anthracene	mg/kg	ND	3.5	3.5	2.3	2.6	65	73	30-100	12	20	
Benzo(a)pyrene	mg/kg	ND	3.5	3.5	2.5	2.7	70	77	24-103	10	20	
Benzo(b)fluoranthene	mg/kg	ND	3.5	3.5	2.3	2.7	64	75	26-100	16	20	
Benzo(g,h,i)perylene	mg/kg	ND	3.5	3.5	2.3	2.5	65	71	24-100	10	20	
Benzo(k)fluoranthene	mg/kg	ND	3.5	3.5	2.4	2.7	67	76	29-100	13	20	
Chrysene	mg/kg	ND	3.5	3.5	2.3	2.6	65	72	30-99	11	20	
Dibenz(a,h)anthracene	mg/kg	ND	3.5	3.5	2.4	2.7	66	76	26-100	13	20	
Fluoranthene	mg/kg	ND	3.5	3.5	2.4	2.8	69	79	35-101	14	20	
Fluorene	mg/kg	ND	3.5	3.5	2.3	2.7	65	76	38-98	15	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	3.5	3.5	2.3	2.6	64	73	23-99	13	20	
N-Nitroso-di-n-propylamine	mg/kg	ND	3.5	3.5	2.2	2.5	62	70	33-96	12	20	
Naphthalene	mg/kg	ND	3.5	3.5	2.2	2.6	61	73	33-92	18	20	
Phenanthrene	mg/kg	ND	3.5	3.5	2.4	2.8	68	78	35-101	15	20	
Phenol	mg/kg	ND	3.5	3.5	2.2	2.5	62	71	32-99	14	20	
Pyrene	mg/kg	ND	3.5	3.5	2.5	2.8	69	79	37-103	13	20	
2,4,6-Tribromophenol (S)	%.						73	85	24-114		20	
2-Fluorobiphenyl (S)	%.						65	75	36-94		20	
2-Fluorophenol (S)	%.						69	78	29-97		20	
Nitrobenzene-d5 (S)	%.						67	78	26-98		20	
p-Terphenyl-d14 (S)	%.						70	85	32-112		20	
Phenol-d5 (S)	%.						68	78	33-98		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076593

QC Batch: PMST/8003 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5076593001, 5076593002, 5076593003, 5076593004, 5076593005

SAMPLE DUPLICATE: 877276

Parameter	Units	5076593001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.3	4.8	11	5	

SAMPLE DUPLICATE: 877277

Parameter	Units	5076644001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.9	5.2	6	5	R1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Hudepohl
Pace Project No.: 5076593

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD CROSS REFERENCE TABLE

Project: Hudepohl
Pace Project No.: 5076593

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B
7471 Mercury	Solid	SW-846 7471A	SW-846 7471A
8015 GRO 5035	Solid	SW-846 8015B	SW-846 5035A
8015 Gasoline Range Organics	Solid	SW-846 8015A	SW-846 5030A
8015 TPH Ohio Microwave	Solid	SW-846 8015B	SW-846 3546
8260 MSV	Water	SW-846 8260B	SW-846 5030B
8260 MSV 5030 Low Level	Solid	SW-846 8260A	SW-846 5030A
8270 MSSV PAH by SIM	Solid	SW-846 8270C	SW-846 3546
8270 MSSV SHORT LIST MICROWAVE	Solid	SW-846 8270C	SW-846 3546

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hudepohl
Pace Project No.: 5076593

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5076593001	**MW-7:2-4'**	EPA 3546	OEXT/32099	EPA 8015 Mod Ext	GCSV/10569
5076593002	**MW-7:18-20'**	EPA 3546	OEXT/32099	EPA 8015 Mod Ext	GCSV/10569
5076593003	**SB-13:12-14'**	EPA 3546	OEXT/32099	EPA 8015 Mod Ext	GCSV/10569
5076593004	**MW-6:2-4'**	EPA 3546	OEXT/32099	EPA 8015 Mod Ext	GCSV/10569
5076593001	**MW-7:2-4'**	EPA 8015 Mod Pur	GCV/16363		
5076593002	**MW-7:18-20'**	EPA 8015 Mod Pur	GCV/16363		
5076593003	**SB-13:12-14'**	EPA 8015 Mod Pur	GCV/16363		
5076593004	**MW-6:2-4'**	EPA 8015 Mod Pur	GCV/16367		
5076593001	**MW-7:2-4'**	EPA 3050	MPRP/10733	EPA 6010	ICP/11368
5076593002	**MW-7:18-20'**	EPA 3050	MPRP/10733	EPA 6010	ICP/11368
5076593003	**SB-13:12-14'**	EPA 3050	MPRP/10733	EPA 6010	ICP/11368
5076593004	**MW-6:2-4'**	EPA 3050	MPRP/10733	EPA 6010	ICP/11368
5076593001	**MW-7:2-4'**	EPA 7471	MERP/4470	EPA 7471	MERC/4597
5076593002	**MW-7:18-20'**	EPA 7471	MERP/4470	EPA 7471	MERC/4597
5076593003	**SB-13:12-14'**	EPA 7471	MERP/4470	EPA 7471	MERC/4597
5076593004	**MW-6:2-4'**	EPA 7471	MERP/4470	EPA 7471	MERC/4597
5076593005	**MW-6:12-14'**	EPA 3546	OEXT/32087	EPA 8270 by SIM	MSSV/11986
5076593001	**MW-7:2-4'**	EPA 3546	OEXT/32119	EPA 8270	MSSV/12019
5076593002	**MW-7:18-20'**	EPA 3546	OEXT/32120	EPA 8270	MSSV/12027
5076593003	**SB-13:12-14'**	EPA 3546	OEXT/32120	EPA 8270	MSSV/12027
5076593004	**MW-6:2-4'**	EPA 3546	OEXT/32120	EPA 8270	MSSV/12027
5076593001	**MW-7:2-4'**	EPA 8260	MSV/50895		
5076593002	**MW-7:18-20'**	EPA 8260	MSV/50895		
5076593003	**SB-13:12-14'**	EPA 8260	MSV/50895		
5076593005	**MW-6:12-14'**	EPA 8260	MSV/50895		
5076593006	**MW-3**	EPA 8260	MSV/50896		
5076593007	**PW-1**	EPA 8260	MSV/50896		
5076593008	**TRIP BLANK**	EPA 8260	MSV/50896		
5076593001	**MW-7:2-4'**	ASTM D2974-87	PMST/8003		
5076593002	**MW-7:18-20'**	ASTM D2974-87	PMST/8003		
5076593003	**SB-13:12-14'**	ASTM D2974-87	PMST/8003		
5076593004	**MW-6:2-4'**	ASTM D2974-87	PMST/8003		
5076593005	**MW-6:12-14'**	ASTM D2974-87	PMST/8003		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1605321

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Pandey Environmental	Report To: Nate Wagner	Attention: Nate Wagner
Address: 673 Mohawk St. Ste 300 Columbus, OH. 43206	Copy To:	Company Name:
Email To: nwagner@pandeyenvironmental.com	Purchase Order No.:	Address:
Phone: 614-444-2078 Fax: 614-444-2079	Project Name: Hudepohl	Pace Quote Reference: Std pricing
Requested Due Date/TAT:	Project Number:	Pace Project Manager: Ike Hunt
		Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER VAP

Site Location STATE: OH

5076593

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes (see valid codes to left)	Sample Type (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	Sample Temp at Collection	# of Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	VOCs	SVOCs	RCRA-8 Metals	TPH-DRO	TPH-GRO	PAH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-7: 2-4'	SL	G			2-20-13	12:10		3	X									X	X	X	X	X			001
2	MW-7: 18-20'						12:15		3	X									X	X	X	X	X			002
3	SB-13: 12-14'						10:55		3	X									X	X	X	X	X			003
4	MW-6: 2-4'					2-21-13	11:07		2	X										X	X	X	X			004
5	MW-6: 12-14'						11:15		2	X									X					X		005
6	MW-3	WT				2-21-13	3:20		3				X						X							006
7	PW-1	WT				2-21-13	2:40		3				X						X							007
8	Trip Blank	WT				—	—		3										X							008
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Jason Martin	2-21-13	5:00	Colette Weaver/PACE	022213	1241	1.2c	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Martin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-21-13

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

FE 8024 5548 4554 ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pandey Environmental Project # 5076593

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8024 5548 4554

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other foam vial holder

Thermometer Used: 1 2 3 4 6 A B (C) D E Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable): 1.2c Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: _____

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	6.
Containers Intact:	☒Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☒No ☐N/A	8. No sample labels on vials for PW-1 only the lids has ID on it.
All containers needing acid/base pres. have been checked? exceptions: (VOA) coliform, TOC, O&G	☐Yes ☒No ☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Headspace in VOA Vials (>6mm):	☒Yes ☒No ☐N/A	10. all the trip blank vials have bubbles
Trip Blank Present:	☒Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Project Manager Review:		
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	12.
Sufficient Volume:	☐Yes ☐No ☐N/A	13.
Correct Containers Used:	☐Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt **Date:** 2/22/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Pandey Environmental

COC PAGE 1 of 1
COC ID# 1605321

Project # 5076593

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			2													
2			↓													
3																
4			↓													
5			2													
6	3															
7	↓															
8	3															
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

CERTIFICATIONS

Project: Hudepohl
Pace Project No.: 5076644

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Hudepohl
Pace Project No.: 5076644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5076644001	**MW-7:2-4 DUP**	Solid	02/22/13 12:05	02/23/13 10:53
5076644002	**MW-2**	Water	02/22/13 11:15	02/23/13 10:53
5076644003	**MW-7**	Water	02/22/13 12:40	02/23/13 10:53
5076644004	**MW-7 DUP**	Water	02/22/13 12:45	02/23/13 10:53
5076644005	**MW-6**	Water	02/22/13 14:00	02/23/13 10:53
5076644006	**MW-5**	Water	02/22/13 15:20	02/23/13 10:53
5076644007	**MW-4**	Water	02/22/13 16:05	02/23/13 10:53
5076644008	**TRIP BLANK**	Water	02/22/13 08:00	02/23/13 10:53

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Hudepohl
Pace Project No.: 5076644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5076644001	**MW-7:2-4 DUP**	EPA 8015 Mod Ext	RAK	4	PASI-I
		EPA 8015 Mod Pur	PTH	2	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270	KES	62	PASI-I
		EPA 8260	GRM	67	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5076644002	**MW-2**	EPA 8260	AMV	67	PASI-I
5076644003	**MW-7**	EPA 8260	AMV	67	PASI-I
5076644004	**MW-7 DUP**	EPA 8260	AMV	67	PASI-I
5076644005	**MW-6**	EPA 8260	GRM	67	PASI-I
5076644006	**MW-5**	EPA 8260	GRM	67	PASI-I
5076644007	**MW-4**	EPA 8260	GRM	67	PASI-I
5076644008	**TRIP BLANK**	EPA 8260	GRM	67	PASI-I

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7:2-4 DUP **Lab ID: 5076644001** Collected: 02/22/13 12:05 Received: 02/23/13 10:53 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 TPH Ohio Microwave	Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546							
Total Petroleum Hydrocarbons	ND	mg/kg	21.0	1	02/27/13 13:30	02/28/13 01:17		
TPH (C10-C20)	ND	mg/kg	10.5	1	02/27/13 13:30	02/28/13 01:17		
TPH (C20-C34)	ND	mg/kg	10.5	1	02/27/13 13:30	02/28/13 01:17		
Surrogates								
n-Pentacosane (S)	88	%.	30-126	1	02/27/13 13:30	02/28/13 01:17	629-99-2	
8015 Gasoline Range Organics	Analytical Method: EPA 8015 Mod Pur							
TPH (C06-C12)	ND	mg/kg	1.1	1		03/01/13 15:13		
Surrogates								
4-Bromofluorobenzene (S)	103	%.	30-163	1		03/01/13 15:13	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**4.6**	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7440-38-2	
Barium	**22.5**	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7440-39-3	
Cadmium	ND	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7440-43-9	
Chromium	**6.2**	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7440-47-3	
Lead	**5.2**	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7439-92-1	
Selenium	ND	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7782-49-2	
Silver	ND	mg/kg	1.9	1	02/26/13 14:19	03/04/13 11:07	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.18	1	03/04/13 13:50	03/05/13 10:47	7439-97-6	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	83-32-9	
Acenaphthylene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	208-96-8	
Anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	207-08-9	
Benzyl alcohol	ND	mg/kg	0.69	1	02/28/13 12:20	03/04/13 16:01	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.69	1	02/28/13 12:20	03/04/13 16:01	59-50-7	
4-Chloroaniline	ND	mg/kg	0.69	1	02/28/13 12:20	03/04/13 16:01	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	91-58-7	
2-Chlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	7005-72-3	
Chrysene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	53-70-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7:2-4 DUP **Lab ID: 5076644001** Collected: 02/22/13 12:05 Received: 02/23/13 10:53 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Dibenzofuran	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	132-64-9	
2,4-Dichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	120-83-2	
Diethylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	105-67-9	
Dimethylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 16:01	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 16:01	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	117-81-7	
Fluoranthene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	206-44-0	
Fluorene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	86-73-7	
Hexachlorocyclopentadiene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	77-47-4	
Hexachloroethane	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	193-39-5	
Isophorone	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.69	1	02/28/13 12:20	03/04/13 16:01		
Naphthalene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	91-20-3	
2-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 16:01	88-74-4	
3-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 16:01	99-09-2	
4-Nitroaniline	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 16:01	100-01-6	
Nitrobenzene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	98-95-3	
2-Nitrophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	88-75-5	
4-Nitrophenol	ND	mg/kg	1.7	1	02/28/13 12:20	03/04/13 16:01	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	86-30-6	
Phenanthrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	85-01-8	
Phenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	108-95-2	
Pyrene	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.35	1	02/28/13 12:20	03/04/13 16:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	73	%.	26-98	1	02/28/13 12:20	03/04/13 16:01	4165-60-0	
2-Fluorobiphenyl (S)	64	%.	36-94	1	02/28/13 12:20	03/04/13 16:01	321-60-8	
p-Terphenyl-d14 (S)	67	%.	32-112	1	02/28/13 12:20	03/04/13 16:01	1718-51-0	
Phenol-d5 (S)	74	%.	33-98	1	02/28/13 12:20	03/04/13 16:01	4165-62-2	
2-Fluorophenol (S)	74	%.	29-97	1	02/28/13 12:20	03/04/13 16:01	367-12-4	
2,4,6-Tribromophenol (S)	77	%.	24-114	1	02/28/13 12:20	03/04/13 16:01	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		03/04/13 14:08	67-64-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7:2-4 DUP **Lab ID: 5076644001** Collected: 02/22/13 12:05 Received: 02/23/13 10:53 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acrolein	ND	mg/kg	0.11	1		03/04/13 14:08	107-02-8	
Benzene	ND	mg/kg	0.0053	1		03/04/13 14:08	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		03/04/13 14:08	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		03/04/13 14:08	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		03/04/13 14:08	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		03/04/13 14:08	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		03/04/13 14:08	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		03/04/13 14:08	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		03/04/13 14:08	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		03/04/13 14:08	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		03/04/13 14:08	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		03/04/13 14:08	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		03/04/13 14:08	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		03/04/13 14:08	124-48-1	
Dibromomethane	ND	mg/kg	0.0053	1		03/04/13 14:08	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		03/04/13 14:08	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		03/04/13 14:08	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		03/04/13 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		03/04/13 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		03/04/13 14:08	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		03/04/13 14:08	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		03/04/13 14:08	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		03/04/13 14:08	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		03/04/13 14:08	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		03/04/13 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		03/04/13 14:08	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		03/04/13 14:08	97-63-2	
2-Hexanone	ND	mg/kg	0.11	1		03/04/13 14:08	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		03/04/13 14:08	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		03/04/13 14:08	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		03/04/13 14:08	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		03/04/13 14:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		03/04/13 14:08	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		03/04/13 14:08	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7:2-4 DUP **Lab ID: 5076644001** Collected: 02/22/13 12:05 Received: 02/23/13 10:53 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
n-Propylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	103-65-1	
Styrene	ND	mg/kg	0.0053	1		03/04/13 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		03/04/13 14:08	127-18-4	
Toluene	ND	mg/kg	0.0053	1		03/04/13 14:08	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		03/04/13 14:08	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		03/04/13 14:08	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		03/04/13 14:08	75-69-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		03/04/13 14:08	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		03/04/13 14:08	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		03/04/13 14:08	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		03/04/13 14:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	71-125	1		03/04/13 14:08	1868-53-7	
Toluene-d8 (S)	104	%.	76-124	1		03/04/13 14:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	67-134	1		03/04/13 14:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.9**	%	0.10	1		02/27/13 13:15		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-2 **Lab ID: 5076644002** Collected: 02/22/13 11:15 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/03/13 06:16	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/03/13 06:16	107-02-8	
Benzene	ND	ug/L	5.0	1		03/03/13 06:16	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/03/13 06:16	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/03/13 06:16	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/03/13 06:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/03/13 06:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/13 06:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/03/13 06:16	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/03/13 06:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/03/13 06:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/03/13 06:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/03/13 06:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/03/13 06:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/03/13 06:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/03/13 06:16	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/03/13 06:16	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/03/13 06:16	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/03/13 06:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/03/13 06:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/03/13 06:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/03/13 06:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/03/13 06:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/03/13 06:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/03/13 06:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/03/13 06:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/03/13 06:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/03/13 06:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/03/13 06:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/03/13 06:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/13 06:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/13 06:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/03/13 06:16	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/03/13 06:16	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/03/13 06:16	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/03/13 06:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/03/13 06:16	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/03/13 06:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/03/13 06:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/03/13 06:16	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-2 **Lab ID: 5076644002** Collected: 02/22/13 11:15 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	103-65-1	
Styrene	ND	ug/L	5.0	1		03/03/13 06:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/03/13 06:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/03/13 06:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/03/13 06:16	127-18-4	
Toluene	ND	ug/L	5.0	1		03/03/13 06:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/03/13 06:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/03/13 06:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/03/13 06:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/03/13 06:16	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/03/13 06:16	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/03/13 06:16	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/03/13 06:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/03/13 06:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		03/03/13 06:16	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		03/03/13 06:16	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		03/03/13 06:16	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7 **Lab ID: 5076644003** Collected: 02/22/13 12:40 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/03/13 06:54	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/03/13 06:54	107-02-8	
Benzene	ND	ug/L	5.0	1		03/03/13 06:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/03/13 06:54	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/03/13 06:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/03/13 06:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/03/13 06:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/13 06:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/03/13 06:54	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/03/13 06:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/03/13 06:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/03/13 06:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/03/13 06:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/03/13 06:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/03/13 06:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/03/13 06:54	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/03/13 06:54	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/03/13 06:54	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/03/13 06:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/03/13 06:54	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/03/13 06:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/03/13 06:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/03/13 06:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/03/13 06:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/03/13 06:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/03/13 06:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/03/13 06:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/03/13 06:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/03/13 06:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/03/13 06:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/13 06:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/13 06:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/03/13 06:54	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/03/13 06:54	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/03/13 06:54	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/03/13 06:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/03/13 06:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/03/13 06:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/03/13 06:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/03/13 06:54	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7 **Lab ID: 5076644003** Collected: 02/22/13 12:40 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	103-65-1	
Styrene	ND	ug/L	5.0	1		03/03/13 06:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/03/13 06:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/03/13 06:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/03/13 06:54	127-18-4	
Toluene	ND	ug/L	5.0	1		03/03/13 06:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/03/13 06:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/03/13 06:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/03/13 06:54	79-00-5	
Trichloroethene	**6.6**	ug/L	5.0	1		03/03/13 06:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/03/13 06:54	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/03/13 06:54	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/03/13 06:54	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/03/13 06:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/03/13 06:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		03/03/13 06:54	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		03/03/13 06:54	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		03/03/13 06:54	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7 DUP **Lab ID: 5076644004** Collected: 02/22/13 12:45 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/03/13 07:32	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/03/13 07:32	107-02-8	
Benzene	ND	ug/L	5.0	1		03/03/13 07:32	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/03/13 07:32	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/03/13 07:32	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/03/13 07:32	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/03/13 07:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/13 07:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/03/13 07:32	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/03/13 07:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/03/13 07:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/03/13 07:32	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/03/13 07:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/03/13 07:32	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/03/13 07:32	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/03/13 07:32	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/03/13 07:32	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/03/13 07:32	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/03/13 07:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 07:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 07:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/03/13 07:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/03/13 07:32	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/03/13 07:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/03/13 07:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/03/13 07:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/03/13 07:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/03/13 07:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/03/13 07:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/03/13 07:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/03/13 07:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/03/13 07:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/03/13 07:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/13 07:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/13 07:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/03/13 07:32	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/03/13 07:32	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/03/13 07:32	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/03/13 07:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/03/13 07:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/03/13 07:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/03/13 07:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/03/13 07:32	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-7 DUP **Lab ID: 5076644004** Collected: 02/22/13 12:45 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	103-65-1	
Styrene	ND	ug/L	5.0	1		03/03/13 07:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/03/13 07:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/03/13 07:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/03/13 07:32	127-18-4	
Toluene	ND	ug/L	5.0	1		03/03/13 07:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/03/13 07:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/03/13 07:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/03/13 07:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/03/13 07:32	79-00-5	
Trichloroethene	**5.8**	ug/L	5.0	1		03/03/13 07:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/03/13 07:32	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/03/13 07:32	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/03/13 07:32	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/03/13 07:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/03/13 07:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/03/13 07:32	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		03/03/13 07:32	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		03/03/13 07:32	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-6 **Lab ID: 5076644005** Collected: 02/22/13 14:00 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/04/13 13:51	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/04/13 13:51	107-02-8	
Benzene	ND	ug/L	5.0	1		03/04/13 13:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/04/13 13:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/04/13 13:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/04/13 13:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/04/13 13:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/04/13 13:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/04/13 13:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/04/13 13:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/04/13 13:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/04/13 13:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/04/13 13:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/04/13 13:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/04/13 13:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 13:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 13:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/04/13 13:51	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/04/13 13:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 13:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/04/13 13:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/04/13 13:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/04/13 13:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/04/13 13:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/04/13 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 13:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 13:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/04/13 13:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 13:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/04/13 13:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 13:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/04/13 13:51	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/04/13 13:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/04/13 13:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/04/13 13:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/04/13 13:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/04/13 13:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/04/13 13:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/04/13 13:51	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-6 **Lab ID: 5076644005** Collected: 02/22/13 14:00 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	103-65-1	
Styrene	ND	ug/L	5.0	1		03/04/13 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 13:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/04/13 13:51	127-18-4	
Toluene	ND	ug/L	5.0	1		03/04/13 13:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 13:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 13:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/04/13 13:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/04/13 13:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/04/13 13:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/04/13 13:51	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 13:51	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/04/13 13:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/04/13 13:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/04/13 13:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/04/13 13:51	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		03/04/13 13:51	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		03/04/13 13:51	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-5 **Lab ID: 5076644006** Collected: 02/22/13 15:20 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/04/13 14:26	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/04/13 14:26	107-02-8	
Benzene	ND	ug/L	5.0	1		03/04/13 14:26	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/04/13 14:26	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/04/13 14:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/04/13 14:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/04/13 14:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/04/13 14:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/04/13 14:26	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/04/13 14:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/04/13 14:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/04/13 14:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/04/13 14:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/04/13 14:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/04/13 14:26	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 14:26	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 14:26	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/04/13 14:26	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/04/13 14:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 14:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 14:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/04/13 14:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/04/13 14:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/04/13 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/04/13 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/04/13 14:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 14:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/04/13 14:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 14:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/04/13 14:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 14:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/04/13 14:26	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/04/13 14:26	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/04/13 14:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/04/13 14:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/04/13 14:26	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/04/13 14:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/04/13 14:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/04/13 14:26	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-5 **Lab ID: 5076644006** Collected: 02/22/13 15:20 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	103-65-1	
Styrene	ND	ug/L	5.0	1		03/04/13 14:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 14:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/04/13 14:26	127-18-4	
Toluene	ND	ug/L	5.0	1		03/04/13 14:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 14:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 14:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/04/13 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/04/13 14:26	79-00-5	
Trichloroethene	**7.1**	ug/L	5.0	1		03/04/13 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/04/13 14:26	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 14:26	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/04/13 14:26	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/04/13 14:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/04/13 14:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/04/13 14:26	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		03/04/13 14:26	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		03/04/13 14:26	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-4 **Lab ID: 5076644007** Collected: 02/22/13 16:05 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/04/13 15:00	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/04/13 15:00	107-02-8	
Benzene	ND	ug/L	5.0	1		03/04/13 15:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/04/13 15:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/04/13 15:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/04/13 15:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/04/13 15:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/04/13 15:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/04/13 15:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/04/13 15:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/04/13 15:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/04/13 15:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/04/13 15:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/04/13 15:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/04/13 15:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 15:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 15:00	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/04/13 15:00	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/04/13 15:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/04/13 15:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/04/13 15:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/04/13 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/04/13 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/04/13 15:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 15:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 15:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/04/13 15:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 15:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/04/13 15:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 15:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/04/13 15:00	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/04/13 15:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/04/13 15:00	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/04/13 15:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/04/13 15:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/04/13 15:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/04/13 15:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/04/13 15:00	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: MW-4 **Lab ID: 5076644007** Collected: 02/22/13 16:05 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	103-65-1	
Styrene	ND	ug/L	5.0	1		03/04/13 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 15:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/04/13 15:00	127-18-4	
Toluene	ND	ug/L	5.0	1		03/04/13 15:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/04/13 15:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/04/13 15:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/04/13 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/04/13 15:00	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 15:00	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/04/13 15:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/04/13 15:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/04/13 15:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		03/04/13 15:00	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		03/04/13 15:00	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		03/04/13 15:00	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: TRIP BLANK **Lab ID: 5076644008** Collected: 02/22/13 08:00 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/04/13 15:35	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/04/13 15:35	107-02-8	
Benzene	ND	ug/L	5.0	1		03/04/13 15:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/04/13 15:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/04/13 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/04/13 15:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/04/13 15:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/04/13 15:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/04/13 15:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/04/13 15:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/04/13 15:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/04/13 15:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/04/13 15:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/04/13 15:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/04/13 15:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 15:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/04/13 15:35	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/04/13 15:35	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/04/13 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/04/13 15:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/04/13 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/04/13 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/04/13 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/04/13 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/04/13 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/04/13 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/04/13 15:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/04/13 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/13 15:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/04/13 15:35	97-63-2	
2-Hexanone	ND	ug/L	25.0	1		03/04/13 15:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/04/13 15:35	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/04/13 15:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/04/13 15:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/04/13 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/04/13 15:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/04/13 15:35	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Hudepohl
Pace Project No.: 5076644

Sample: TRIP BLANK **Lab ID: 5076644008** Collected: 02/22/13 08:00 Received: 02/23/13 10:53 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	103-65-1	
Styrene	ND	ug/L	5.0	1		03/04/13 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/13 15:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/04/13 15:35	127-18-4	
Toluene	ND	ug/L	5.0	1		03/04/13 15:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/04/13 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/04/13 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/04/13 15:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/04/13 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/04/13 15:35	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/04/13 15:35	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/04/13 15:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/04/13 15:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/04/13 15:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/04/13 15:35	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		03/04/13 15:35	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		03/04/13 15:35	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: GCV/16363
QC Batch Method: EPA 8015 Mod Pur
Analysis Method: EPA 8015 Mod Pur
Analysis Description: 8015 Solid GCV
Associated Lab Samples: 5076644001

METHOD BLANK: 878734 Matrix: Solid
Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C12)	mg/kg	ND	1.0	03/01/13 12:38	
4-Bromofluorobenzene (S)	%.	95	30-163	03/01/13 12:38	

LABORATORY CONTROL SAMPLE: 878735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	mg/kg	10	10.3	103	88-132	
4-Bromofluorobenzene (S)	%.			98	30-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878736 878737

Parameter	Units	5076576007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C12)	mg/kg	ND	9.2	8.6	10	9.2	109	107	12-136	8	20	
4-Bromofluorobenzene (S)	%.						106	104	30-163		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: MERP/4476
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 5076644001

METHOD BLANK: 879373 Matrix: Solid
Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	03/05/13 10:43	

LABORATORY CONTROL SAMPLE: 879374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.53	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 879375 879376

Parameter	Units	5076640001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.64	.59	0.55	0.46	87	77	75-125	18	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: MPRP/10745
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 5076644001

METHOD BLANK: 876674 Matrix: Solid
Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	03/04/13 10:05	
Barium	mg/kg	ND	2.0	03/04/13 10:05	
Cadmium	mg/kg	ND	2.0	03/04/13 10:05	
Chromium	mg/kg	ND	2.0	03/04/13 10:05	
Lead	mg/kg	ND	2.0	03/04/13 10:05	
Selenium	mg/kg	ND	2.0	03/04/13 10:05	
Silver	mg/kg	ND	2.0	03/04/13 10:05	

LABORATORY CONTROL SAMPLE: 876675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.6	105	80-120	
Barium	mg/kg	50	53.4	107	80-120	
Cadmium	mg/kg	50	49.1	98	80-120	
Chromium	mg/kg	50	52.8	106	80-120	
Lead	mg/kg	50	49.5	99	80-120	
Selenium	mg/kg	50	51.3	103	80-120	
Silver	mg/kg	25	25.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 876676 876677

Parameter	Units	5076567001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	1.6J	46.5	45.9	36.5	36.0	75	75	75-125	1	20	
Barium	mg/kg	236	46.5	45.9	288	270	73	33	75-125	7	20	P6
Cadmium	mg/kg	ND	46.5	45.9	35.4	34.7	76	75	75-125	2	20	
Chromium	mg/kg	16.5	46.5	45.9	48.3	46.6	65	63	75-125	3	20	M3
Lead	mg/kg	1.6J	46.5	45.9	29.7	28.9	60	59	75-125	2	20	M3
Selenium	mg/kg	1.4J	46.5	45.9	33.8	33.4	69	69	75-125	1	20	M3
Silver	mg/kg	ND	23.2	23	16.4	16.1	70	70	75-125	1	20	M3

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: MSV/51001
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 5076644001

METHOD BLANK: 879693
Matrix: Solid
Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
1,1-Dichloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
1,1-Dichloroethene	mg/kg	ND	0.0050	03/04/13 13:34	
1,1-Dichloropropene	mg/kg	ND	0.0050	03/04/13 13:34	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
1,2-Dichloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
1,2-Dichloropropane	mg/kg	ND	0.0050	03/04/13 13:34	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
1,3-Dichloropropane	mg/kg	ND	0.0050	03/04/13 13:34	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
2,2-Dichloropropane	mg/kg	ND	0.0050	03/04/13 13:34	
2-Butanone (MEK)	mg/kg	ND	0.025	03/04/13 13:34	
2-Chlorotoluene	mg/kg	ND	0.0050	03/04/13 13:34	
2-Hexanone	mg/kg	ND	0.10	03/04/13 13:34	
4-Chlorotoluene	mg/kg	ND	0.0050	03/04/13 13:34	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	03/04/13 13:34	
Acetone	mg/kg	ND	0.10	03/04/13 13:34	
Acrolein	mg/kg	ND	0.10	03/04/13 13:34	
Benzene	mg/kg	ND	0.0050	03/04/13 13:34	
Bromobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
Bromochloromethane	mg/kg	ND	0.0050	03/04/13 13:34	
Bromodichloromethane	mg/kg	ND	0.0050	03/04/13 13:34	
Bromoform	mg/kg	ND	0.0050	03/04/13 13:34	
Bromomethane	mg/kg	ND	0.0050	03/04/13 13:34	
Carbon disulfide	mg/kg	ND	0.010	03/04/13 13:34	
Carbon tetrachloride	mg/kg	ND	0.0050	03/04/13 13:34	
Chlorobenzene	mg/kg	ND	0.0050	03/04/13 13:34	
Chloroethane	mg/kg	ND	0.0050	03/04/13 13:34	
Chloroform	mg/kg	ND	0.0050	03/04/13 13:34	
Chloromethane	mg/kg	ND	0.0050	03/04/13 13:34	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	03/04/13 13:34	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	03/04/13 13:34	
Dibromochloromethane	mg/kg	ND	0.0050	03/04/13 13:34	
Dibromomethane	mg/kg	ND	0.0050	03/04/13 13:34	
Dichlorodifluoromethane	mg/kg	ND	0.0050	03/04/13 13:34	
Ethyl methacrylate	mg/kg	ND	0.10	03/04/13 13:34	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

METHOD BLANK: 879693 Matrix: Solid

Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
Iodomethane	mg/kg	ND	0.10	03/04/13 13:34	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	03/04/13 13:34	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	03/04/13 13:34	
Methylene Chloride	mg/kg	ND	0.020	03/04/13 13:34	
n-Butylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
n-Propylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
p-Isopropyltoluene	mg/kg	ND	0.0050	03/04/13 13:34	
sec-Butylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
Styrene	mg/kg	ND	0.0050	03/04/13 13:34	
tert-Butylbenzene	mg/kg	ND	0.0050	03/04/13 13:34	
Tetrachloroethene	mg/kg	ND	0.0050	03/04/13 13:34	
Toluene	mg/kg	ND	0.0050	03/04/13 13:34	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	03/04/13 13:34	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	03/04/13 13:34	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	03/04/13 13:34	
Trichloroethene	mg/kg	ND	0.0050	03/04/13 13:34	
Trichlorofluoromethane	mg/kg	ND	0.0050	03/04/13 13:34	
Vinyl acetate	mg/kg	ND	0.10	03/04/13 13:34	
Vinyl chloride	mg/kg	ND	0.0050	03/04/13 13:34	
Xylene (Total)	mg/kg	ND	0.010	03/04/13 13:34	
4-Bromofluorobenzene (S)	%.	99	67-134	03/04/13 13:34	
Dibromofluoromethane (S)	%.	99	71-125	03/04/13 13:34	
Toluene-d8 (S)	%.	103	76-124	03/04/13 13:34	

LABORATORY CONTROL SAMPLE: 879694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.053	106	68-125	
1,1,1-Trichloroethane	mg/kg	.05	0.049	98	63-124	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.047	93	73-123	
1,1,2-Trichloroethane	mg/kg	.05	0.046	93	70-124	
1,1-Dichloroethane	mg/kg	.05	0.047	93	63-122	
1,1-Dichloroethene	mg/kg	.05	0.046	92	71-129	
1,1-Dichloropropene	mg/kg	.05	0.047	94	71-122	
1,2,3-Trichlorobenzene	mg/kg	.05	0.047	93	68-123	
1,2,4-Trichlorobenzene	mg/kg	.05	0.049	99	68-125	
1,2,4-Trimethylbenzene	mg/kg	.05	0.049	98	69-120	
1,2-Dichlorobenzene	mg/kg	.05	0.044	89	71-121	
1,2-Dichloroethane	mg/kg	.05	0.052	103	74-120	
1,2-Dichloropropane	mg/kg	.05	0.043	87	71-117	
1,3,5-Trimethylbenzene	mg/kg	.05	0.049	98	64-119	
1,3-Dichlorobenzene	mg/kg	.05	0.045	90	70-122	
1,3-Dichloropropane	mg/kg	.05	0.044	88	68-118	
1,4-Dichlorobenzene	mg/kg	.05	0.046	93	71-118	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 879694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	mg/kg	.05	0.050	100	62-119	
2-Butanone (MEK)	mg/kg	.25	0.22	90	38-154	
2-Chlorotoluene	mg/kg	.05	0.047	94	71-120	
2-Hexanone	mg/kg	.25	0.23	94	50-134	
4-Chlorotoluene	mg/kg	.05	0.046	92	72-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.24	96	66-122	
Acetone	mg/kg	.25	0.25	102	10-200	
Acrolein	mg/kg	1	1.2	123	11-200	
Benzene	mg/kg	.05	0.046	93	73-115	
Bromobenzene	mg/kg	.05	0.046	92	64-130	
Bromochloromethane	mg/kg	.05	0.059	119	71-127	
Bromodichloromethane	mg/kg	.05	0.050	100	60-121	
Bromoform	mg/kg	.05	0.041	83	44-130	
Bromomethane	mg/kg	.05	0.041	83	48-175	
Carbon disulfide	mg/kg	.1	0.092	92	71-126	
Carbon tetrachloride	mg/kg	.05	0.052	104	57-127	
Chlorobenzene	mg/kg	.05	0.045	91	72-121	
Chloroethane	mg/kg	.05	0.046	92	72-141	
Chloroform	mg/kg	.05	0.050	100	74-114	
Chloromethane	mg/kg	.05	0.037	73	51-126	
cis-1,2-Dichloroethene	mg/kg	.05	0.047	94	72-115	
cis-1,3-Dichloropropene	mg/kg	.05	0.047	94	64-115	
Dibromochloromethane	mg/kg	.05	0.047	94	58-114	
Dibromomethane	mg/kg	.05	0.049	99	73-120	
Dichlorodifluoromethane	mg/kg	.05	0.039	77	32-167	
Ethyl methacrylate	mg/kg	.2	0.19	96	65-117	
Ethylbenzene	mg/kg	.05	0.048	96	73-120	
Iodomethane	mg/kg	.1	.079J	79	45-156	
Isopropylbenzene (Cumene)	mg/kg	.05	0.045	89	74-123	
Methyl-tert-butyl ether	mg/kg	.1	0.093	93	69-123	
Methylene Chloride	mg/kg	.05	0.052	103	58-124	
n-Butylbenzene	mg/kg	.05	0.050	100	71-118	
n-Propylbenzene	mg/kg	.05	0.049	97	70-120	
p-Isopropyltoluene	mg/kg	.05	0.050	100	71-123	
sec-Butylbenzene	mg/kg	.05	0.050	100	66-122	
Styrene	mg/kg	.05	0.049	98	75-118	
tert-Butylbenzene	mg/kg	.05	0.041	83	54-124	
Tetrachloroethene	mg/kg	.05	0.046	92	66-126	
Toluene	mg/kg	.05	0.046	93	69-115	
trans-1,2-Dichloroethene	mg/kg	.05	0.048	96	69-120	
trans-1,3-Dichloropropene	mg/kg	.05	0.045	91	61-116	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.20	102	59-130	
Trichloroethene	mg/kg	.05	0.052	104	71-117	
Trichlorofluoromethane	mg/kg	.05	0.052	103	67-138	
Vinyl acetate	mg/kg	.2	0.10	52	35-134	
Vinyl chloride	mg/kg	.05	0.044	89	64-127	
Xylene (Total)	mg/kg	.15	0.14	94	69-117	
4-Bromofluorobenzene (S)	%.			98	67-134	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 879694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			100	71-125	
Toluene-d8 (S)	%.			100	76-124	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: MSV/50973 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5076644002, 5076644003, 5076644004

METHOD BLANK: 879385 Matrix: Water
Associated Lab Samples: 5076644002, 5076644003, 5076644004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/02/13 22:38	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/02/13 22:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/02/13 22:38	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/02/13 22:38	
1,1-Dichloroethane	ug/L	ND	5.0	03/02/13 22:38	
1,1-Dichloroethene	ug/L	ND	5.0	03/02/13 22:38	
1,1-Dichloropropene	ug/L	ND	5.0	03/02/13 22:38	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/02/13 22:38	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/02/13 22:38	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/02/13 22:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/02/13 22:38	
1,2-Dichloroethane	ug/L	ND	5.0	03/02/13 22:38	
1,2-Dichloropropane	ug/L	ND	5.0	03/02/13 22:38	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/02/13 22:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/02/13 22:38	
1,3-Dichloropropane	ug/L	ND	5.0	03/02/13 22:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/02/13 22:38	
2,2-Dichloropropane	ug/L	ND	5.0	03/02/13 22:38	
2-Butanone (MEK)	ug/L	ND	25.0	03/02/13 22:38	
2-Chlorotoluene	ug/L	ND	5.0	03/02/13 22:38	
2-Hexanone	ug/L	ND	25.0	03/02/13 22:38	
4-Chlorotoluene	ug/L	ND	5.0	03/02/13 22:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/02/13 22:38	
Acetone	ug/L	ND	100	03/02/13 22:38	
Acrolein	ug/L	ND	50.0	03/02/13 22:38	
Benzene	ug/L	ND	5.0	03/02/13 22:38	
Bromobenzene	ug/L	ND	5.0	03/02/13 22:38	
Bromochloromethane	ug/L	ND	5.0	03/02/13 22:38	
Bromodichloromethane	ug/L	ND	5.0	03/02/13 22:38	
Bromoform	ug/L	ND	5.0	03/02/13 22:38	
Bromomethane	ug/L	ND	5.0	03/02/13 22:38	
Carbon disulfide	ug/L	ND	10.0	03/02/13 22:38	
Carbon tetrachloride	ug/L	ND	5.0	03/02/13 22:38	
Chlorobenzene	ug/L	ND	5.0	03/02/13 22:38	
Chloroethane	ug/L	ND	5.0	03/02/13 22:38	
Chloroform	ug/L	ND	5.0	03/02/13 22:38	
Chloromethane	ug/L	ND	5.0	03/02/13 22:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/02/13 22:38	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/02/13 22:38	
Dibromochloromethane	ug/L	ND	5.0	03/02/13 22:38	
Dibromomethane	ug/L	ND	5.0	03/02/13 22:38	
Dichlorodifluoromethane	ug/L	ND	5.0	03/02/13 22:38	
Ethyl methacrylate	ug/L	ND	100	03/02/13 22:38	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

METHOD BLANK: 879385 Matrix: Water

Associated Lab Samples: 5076644002, 5076644003, 5076644004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	5.0	03/02/13 22:38	
Iodomethane	ug/L	ND	10.0	03/02/13 22:38	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/02/13 22:38	
Methyl-tert-butyl ether	ug/L	ND	4.0	03/02/13 22:38	
Methylene Chloride	ug/L	ND	5.0	03/02/13 22:38	
n-Butylbenzene	ug/L	ND	5.0	03/02/13 22:38	
n-Propylbenzene	ug/L	ND	5.0	03/02/13 22:38	
p-Isopropyltoluene	ug/L	ND	5.0	03/02/13 22:38	
sec-Butylbenzene	ug/L	ND	5.0	03/02/13 22:38	
Styrene	ug/L	ND	5.0	03/02/13 22:38	
tert-Butylbenzene	ug/L	ND	5.0	03/02/13 22:38	
Tetrachloroethene	ug/L	ND	5.0	03/02/13 22:38	
Toluene	ug/L	ND	5.0	03/02/13 22:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/02/13 22:38	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/02/13 22:38	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/02/13 22:38	
Trichloroethene	ug/L	ND	5.0	03/02/13 22:38	
Trichlorofluoromethane	ug/L	ND	5.0	03/02/13 22:38	
Vinyl acetate	ug/L	ND	50.0	03/02/13 22:38	
Vinyl chloride	ug/L	ND	2.0	03/02/13 22:38	
Xylene (Total)	ug/L	ND	10.0	03/02/13 22:38	
4-Bromofluorobenzene (S)	%.	103	72-125	03/02/13 22:38	
Dibromofluoromethane (S)	%.	98	83-123	03/02/13 22:38	
Toluene-d8 (S)	%.	99	81-114	03/02/13 22:38	

LABORATORY CONTROL SAMPLE: 879386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	69-122	
1,1,1-Trichloroethane	ug/L	50	45.3	91	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	68-134	
1,1,2-Trichloroethane	ug/L	50	50.9	102	77-129	
1,1-Dichloroethane	ug/L	50	45.4	91	70-127	
1,1-Dichloroethene	ug/L	50	44.0	88	75-145	
1,1-Dichloropropene	ug/L	50	45.7	91	75-126	
1,2,3-Trichlorobenzene	ug/L	50	43.7	87	63-130	
1,2,4-Trichlorobenzene	ug/L	50	42.5	85	64-122	
1,2,4-Trimethylbenzene	ug/L	50	46.7	93	68-129	
1,2-Dichlorobenzene	ug/L	50	47.0	94	74-123	
1,2-Dichloroethane	ug/L	50	48.6	97	71-127	
1,2-Dichloropropane	ug/L	50	43.0	86	75-126	
1,3,5-Trimethylbenzene	ug/L	50	45.6	91	69-129	
1,3-Dichlorobenzene	ug/L	50	45.1	90	76-123	
1,3-Dichloropropane	ug/L	50	48.3	97	77-126	
1,4-Dichlorobenzene	ug/L	50	44.1	88	77-121	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 879386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	42.5	85	45-138	
2-Butanone (MEK)	ug/L	250	226	90	42-177	
2-Chlorotoluene	ug/L	50	43.6	87	74-129	
2-Hexanone	ug/L	250	265	106	57-162	
4-Chlorotoluene	ug/L	50	43.9	88	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	262	105	64-135	
Acetone	ug/L	250	232	93	10-200	
Acrolein	ug/L	1000	1500	150	10-200	
Benzene	ug/L	50	46.9	94	76-123	
Bromobenzene	ug/L	50	47.3	95	67-130	
Bromochloromethane	ug/L	50	44.2	88	58-153	
Bromodichloromethane	ug/L	50	46.9	94	71-124	
Bromoform	ug/L	50	46.6	93	64-116	
Bromomethane	ug/L	50	59.7	119	23-197	
Carbon disulfide	ug/L	100	90.5	90	55-146	
Carbon tetrachloride	ug/L	50	46.2	92	65-125	
Chlorobenzene	ug/L	50	47.8	96	78-120	
Chloroethane	ug/L	50	56.3	113	56-163	
Chloroform	ug/L	50	48.6	97	73-122	
Chloromethane	ug/L	50	58.1	116	46-146	
cis-1,2-Dichloroethene	ug/L	50	43.2	86	79-129	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	66-123	
Dibromochloromethane	ug/L	50	48.8	98	70-123	
Dibromomethane	ug/L	50	46.5	93	73-123	
Dichlorodifluoromethane	ug/L	50	72.2	144	19-200	
Ethyl methacrylate	ug/L	200	228	114	70-127	
Ethylbenzene	ug/L	50	51.1	102	75-120	
Iodomethane	ug/L	100	84.7	85	16-181	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	73-123	
Methyl-tert-butyl ether	ug/L	100	90.9	91	66-128	
Methylene Chloride	ug/L	50	46.0	92	61-138	
n-Butylbenzene	ug/L	50	44.8	90	69-130	
n-Propylbenzene	ug/L	50	46.5	93	71-132	
p-Isopropyltoluene	ug/L	50	48.7	97	71-126	
sec-Butylbenzene	ug/L	50	48.0	96	69-130	
Styrene	ug/L	50	50.2	100	75-125	
tert-Butylbenzene	ug/L	50	43.9	88	49-114	
Tetrachloroethene	ug/L	50	50.7	101	57-125	
Toluene	ug/L	50	47.6	95	72-124	
trans-1,2-Dichloroethene	ug/L	50	43.2	86	71-145	
trans-1,3-Dichloropropene	ug/L	50	41.7	83	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	199	99	50-121	
Trichloroethene	ug/L	50	49.2	98	77-122	
Trichlorofluoromethane	ug/L	50	51.4	103	56-159	
Vinyl acetate	ug/L	200	98.9	49	27-119	
Vinyl chloride	ug/L	50	58.1	116	61-146	
Xylene (Total)	ug/L	150	138	92	72-126	
4-Bromofluorobenzene (S)	%.			106	72-125	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 879386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			99	83-123	
Toluene-d8 (S)	%.			105	81-114	

MATRIX SPIKE SAMPLE: 879387

Parameter	Units	5076644004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	30.4	61	30-122	
1,1,1-Trichloroethane	ug/L	ND	50	37.9	76	37-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	38.2	76	47-132	
1,1,2-Trichloroethane	ug/L	ND	50	40.6	81	53-131	
1,1-Dichloroethane	ug/L	ND	50	38.5	77	47-138	
1,1-Dichloroethene	ug/L	ND	50	41.6	83	54-152	
1,1-Dichloropropene	ug/L	ND	50	34.3	69	47-136	
1,2,3-Trichlorobenzene	ug/L	ND	50	18.0	36	15-132	
1,2,4-Trichlorobenzene	ug/L	ND	50	15.2	30	10-130	
1,2,4-Trimethylbenzene	ug/L	ND	50	14.0	28	10-141	
1,2-Dichlorobenzene	ug/L	ND	50	20.1	40	20-137	
1,2-Dichloroethane	ug/L	ND	50	47.4	95	42-139	
1,2-Dichloropropane	ug/L	ND	50	35.6	71	50-131	
1,3,5-Trimethylbenzene	ug/L	ND	50	13.3	27	10-145	
1,3-Dichlorobenzene	ug/L	ND	50	16.8	34	13-143	
1,3-Dichloropropane	ug/L	ND	50	36.9	74	53-130	
1,4-Dichlorobenzene	ug/L	ND	50	15.9	32	13-140	
2,2-Dichloropropane	ug/L	ND	50	36.3	73	13-142	
2-Butanone (MEK)	ug/L	ND	250	226	90	43-142	
2-Chlorotoluene	ug/L	ND	50	17.1	34	15-145	
2-Hexanone	ug/L	ND	250	212	85	46-139	
4-Chlorotoluene	ug/L	ND	50	14.1	28	12-143	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	227	91	43-140	
Acetone	ug/L	ND	250	212	85	38-155	
Acrolein	ug/L	ND	1000	1030	103	11-200	
Benzene	ug/L	ND	50	35.4	71	52-134	
Bromobenzene	ug/L	ND	50	22.0	44	25-140	
Bromochloromethane	ug/L	ND	50	41.3	83	54-144	
Bromodichloromethane	ug/L	ND	50	39.3	79	42-128	
Bromoform	ug/L	ND	50	37.4	75	34-116	
Bromomethane	ug/L	ND	50	52.7	105	10-200	
Carbon disulfide	ug/L	ND	100	74.0	74	43-144	
Carbon tetrachloride	ug/L	ND	50	36.7	73	26-136	
Chlorobenzene	ug/L	ND	50	25.1	50	33-136	
Chloroethane	ug/L	ND	50	53.8	108	21-200	
Chloroform	ug/L	ND	50	42.9	86	50-134	
Chloromethane	ug/L	ND	50	55.8	112	32-160	
cis-1,2-Dichloroethene	ug/L	ND	50	36.9	74	48-145	
cis-1,3-Dichloropropene	ug/L	ND	50	29.8	60	35-116	
Dibromochloromethane	ug/L	ND	50	37.1	74	39-122	
Dibromomethane	ug/L	ND	50	39.2	78	49-134	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

MATRIX SPIKE SAMPLE: 879387

Parameter	Units	5076644004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	ND	50	67.1	134	35-200	
Ethyl methacrylate	ug/L	ND	200	177	89	54-123	
Ethylbenzene	ug/L	ND	50	20.7	41	29-132	
Iodomethane	ug/L	ND	100	81.1	81	10-171	
Isopropylbenzene (Cumene)	ug/L	ND	50	16.7	33	11-146	
Methyl-tert-butyl ether	ug/L	ND	100	88.1	88	39-137	
Methylene Chloride	ug/L	ND	50	46.2	92	47-141	
n-Butylbenzene	ug/L	ND	50	4.6J	9	10-156	M0
n-Propylbenzene	ug/L	ND	50	11.9	24	10-148	
p-Isopropyltoluene	ug/L	ND	50	8.4	17	10-150	
sec-Butylbenzene	ug/L	ND	50	11.1	22	10-150	
Styrene	ug/L	ND	50	22.1	44	20-143	
tert-Butylbenzene	ug/L	ND	50	13.6	27	10-123	
Tetrachloroethene	ug/L	ND	50	24.3	49	30-124	
Toluene	ug/L	ND	50	28.5	57	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	36.2	72	48-144	
trans-1,3-Dichloropropene	ug/L	ND	50	31.3	63	24-114	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	146	73	22-120	
Trichloroethene	ug/L	5.8	50	33.7	56	44-130	
Trichlorofluoromethane	ug/L	ND	50	55.4	111	17-200	
Vinyl acetate	ug/L	ND	200	87.3	44	10-115	
Vinyl chloride	ug/L	ND	50	56.3	113	45-159	
Xylene (Total)	ug/L	ND	150	63.8	43	29-131	
4-Bromofluorobenzene (S)	%.				101	72-125	
Dibromofluoromethane (S)	%.				97	83-123	
Toluene-d8 (S)	%.				99	81-114	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: MSV/50996 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5076644005, 5076644006, 5076644007, 5076644008

METHOD BLANK: 879683 Matrix: Water
Associated Lab Samples: 5076644005, 5076644006, 5076644007, 5076644008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/04/13 12:42	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/04/13 12:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/04/13 12:42	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/04/13 12:42	
1,1-Dichloroethane	ug/L	ND	5.0	03/04/13 12:42	
1,1-Dichloroethene	ug/L	ND	5.0	03/04/13 12:42	
1,1-Dichloropropene	ug/L	ND	5.0	03/04/13 12:42	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/04/13 12:42	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/04/13 12:42	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/04/13 12:42	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/04/13 12:42	
1,2-Dichloroethane	ug/L	ND	5.0	03/04/13 12:42	
1,2-Dichloropropane	ug/L	ND	5.0	03/04/13 12:42	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/04/13 12:42	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/04/13 12:42	
1,3-Dichloropropane	ug/L	ND	5.0	03/04/13 12:42	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/04/13 12:42	
2,2-Dichloropropane	ug/L	ND	5.0	03/04/13 12:42	
2-Butanone (MEK)	ug/L	ND	25.0	03/04/13 12:42	
2-Chlorotoluene	ug/L	ND	5.0	03/04/13 12:42	
2-Hexanone	ug/L	ND	25.0	03/04/13 12:42	
4-Chlorotoluene	ug/L	ND	5.0	03/04/13 12:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/04/13 12:42	
Acetone	ug/L	ND	100	03/04/13 12:42	
Acrolein	ug/L	ND	50.0	03/04/13 12:42	
Benzene	ug/L	ND	5.0	03/04/13 12:42	
Bromobenzene	ug/L	ND	5.0	03/04/13 12:42	
Bromochloromethane	ug/L	ND	5.0	03/04/13 12:42	
Bromodichloromethane	ug/L	ND	5.0	03/04/13 12:42	
Bromoform	ug/L	ND	5.0	03/04/13 12:42	
Bromomethane	ug/L	ND	5.0	03/04/13 12:42	
Carbon disulfide	ug/L	ND	10.0	03/04/13 12:42	
Carbon tetrachloride	ug/L	ND	5.0	03/04/13 12:42	
Chlorobenzene	ug/L	ND	5.0	03/04/13 12:42	
Chloroethane	ug/L	ND	5.0	03/04/13 12:42	
Chloroform	ug/L	ND	5.0	03/04/13 12:42	
Chloromethane	ug/L	ND	5.0	03/04/13 12:42	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/04/13 12:42	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/04/13 12:42	
Dibromochloromethane	ug/L	ND	5.0	03/04/13 12:42	
Dibromomethane	ug/L	ND	5.0	03/04/13 12:42	
Dichlorodifluoromethane	ug/L	ND	5.0	03/04/13 12:42	
Ethyl methacrylate	ug/L	ND	100	03/04/13 12:42	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

METHOD BLANK: 879683 Matrix: Water

Associated Lab Samples: 5076644005, 5076644006, 5076644007, 5076644008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	5.0	03/04/13 12:42	
Iodomethane	ug/L	ND	10.0	03/04/13 12:42	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/04/13 12:42	
Methyl-tert-butyl ether	ug/L	ND	4.0	03/04/13 12:42	
Methylene Chloride	ug/L	ND	5.0	03/04/13 12:42	
n-Butylbenzene	ug/L	ND	5.0	03/04/13 12:42	
n-Propylbenzene	ug/L	ND	5.0	03/04/13 12:42	
p-Isopropyltoluene	ug/L	ND	5.0	03/04/13 12:42	
sec-Butylbenzene	ug/L	ND	5.0	03/04/13 12:42	
Styrene	ug/L	ND	5.0	03/04/13 12:42	
tert-Butylbenzene	ug/L	ND	5.0	03/04/13 12:42	
Tetrachloroethene	ug/L	ND	5.0	03/04/13 12:42	
Toluene	ug/L	ND	5.0	03/04/13 12:42	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/04/13 12:42	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/04/13 12:42	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/04/13 12:42	
Trichloroethene	ug/L	ND	5.0	03/04/13 12:42	
Trichlorofluoromethane	ug/L	ND	5.0	03/04/13 12:42	
Vinyl acetate	ug/L	ND	50.0	03/04/13 12:42	
Vinyl chloride	ug/L	ND	2.0	03/04/13 12:42	
Xylene (Total)	ug/L	ND	10.0	03/04/13 12:42	
4-Bromofluorobenzene (S)	%.	98	72-125	03/04/13 12:42	
Dibromofluoromethane (S)	%.	97	83-123	03/04/13 12:42	
Toluene-d8 (S)	%.	102	81-114	03/04/13 12:42	

LABORATORY CONTROL SAMPLE: 879684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.1	104	69-122	
1,1,1-Trichloroethane	ug/L	50	49.1	98	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	68-134	
1,1,2-Trichloroethane	ug/L	50	47.3	95	77-129	
1,1-Dichloroethane	ug/L	50	47.5	95	70-127	
1,1-Dichloroethene	ug/L	50	47.5	95	75-145	
1,1-Dichloropropene	ug/L	50	47.5	95	75-126	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	63-130	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	64-122	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	68-129	
1,2-Dichlorobenzene	ug/L	50	45.7	91	74-123	
1,2-Dichloroethane	ug/L	50	51.1	102	71-127	
1,2-Dichloropropane	ug/L	50	45.3	91	75-126	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	69-129	
1,3-Dichlorobenzene	ug/L	50	45.4	91	76-123	
1,3-Dichloropropane	ug/L	50	43.4	87	77-126	
1,4-Dichlorobenzene	ug/L	50	46.3	93	77-121	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 879684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	51.9	104	45-138	
2-Butanone (MEK)	ug/L	250	239	96	42-177	
2-Chlorotoluene	ug/L	50	47.3	95	74-129	
2-Hexanone	ug/L	250	244	97	57-162	
4-Chlorotoluene	ug/L	50	48.3	97	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	238	95	64-135	
Acetone	ug/L	250	316	126	10-200	
Acrolein	ug/L	1000	1260	126	10-200	
Benzene	ug/L	50	46.5	93	76-123	
Bromobenzene	ug/L	50	46.6	93	67-130	
Bromochloromethane	ug/L	50	50.3	101	58-153	
Bromodichloromethane	ug/L	50	54.0	108	71-124	
Bromoform	ug/L	50	40.6	81	64-116	
Bromomethane	ug/L	50	23.5	47	23-197	
Carbon disulfide	ug/L	100	93.6	94	55-146	
Carbon tetrachloride	ug/L	50	47.7	95	65-125	
Chlorobenzene	ug/L	50	45.8	92	78-120	
Chloroethane	ug/L	50	51.2	102	56-163	
Chloroform	ug/L	50	51.0	102	73-122	
Chloromethane	ug/L	50	30.2	60	46-146	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	79-129	
cis-1,3-Dichloropropene	ug/L	50	46.5	93	66-123	
Dibromochloromethane	ug/L	50	46.7	93	70-123	
Dibromomethane	ug/L	50	47.0	94	73-123	
Dichlorodifluoromethane	ug/L	50	37.2	74	19-200	
Ethyl methacrylate	ug/L	200	213	106	70-127	
Ethylbenzene	ug/L	50	47.6	95	75-120	
Iodomethane	ug/L	100	29.4	29	16-181	
Isopropylbenzene (Cumene)	ug/L	50	44.9	90	73-123	
Methyl-tert-butyl ether	ug/L	100	92.9	93	66-128	
Methylene Chloride	ug/L	50	46.4	93	61-138	
n-Butylbenzene	ug/L	50	51.6	103	69-130	
n-Propylbenzene	ug/L	50	49.5	99	71-132	
p-Isopropyltoluene	ug/L	50	50.8	102	71-126	
sec-Butylbenzene	ug/L	50	51.9	104	69-130	
Styrene	ug/L	50	49.2	98	75-125	
tert-Butylbenzene	ug/L	50	41.8	84	49-114	
Tetrachloroethene	ug/L	50	46.2	92	57-125	
Toluene	ug/L	50	46.6	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	71-145	
trans-1,3-Dichloropropene	ug/L	50	45.4	91	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	182	91	50-121	
Trichloroethene	ug/L	50	54.2	108	77-122	
Trichlorofluoromethane	ug/L	50	50.0	100	56-159	
Vinyl acetate	ug/L	200	112	56	27-119	
Vinyl chloride	ug/L	50	40.9	82	61-146	
Xylene (Total)	ug/L	150	144	96	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 879684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			98	83-123	
Toluene-d8 (S)	%.			99	81-114	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: OEXT/32113
QC Batch Method: EPA 3546
Analysis Method: EPA 8015 Mod Ext
Analysis Description: EPA 8015 TPH Ohio
Associated Lab Samples: 5076644001

METHOD BLANK: 877281 Matrix: Solid
Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	20.0	02/28/13 00:02	
TPH (C10-C20)	mg/kg	ND	10.0	02/28/13 00:02	
TPH (C20-C34)	mg/kg	ND	10.0	02/28/13 00:02	
n-Pentacosane (S)	%.	80	30-126	02/28/13 00:02	

LABORATORY CONTROL SAMPLE: 877282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	83.3	67.7	81	47-107	
n-Pentacosane (S)	%.			89	30-126	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 877300 877301

Parameter	Units	5076721019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Petroleum Hydrocarbons	mg/kg	ND	99.5	99.5	62.8	82.9	55	76	23-115	28	20	R1
n-Pentacosane (S)	%.						66	87	30-126		20	R1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: OEXT/32120
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5076644001

METHOD BLANK: 877793
Matrix: Solid
Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4-Dichlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4-Dimethylphenol	mg/kg	ND	0.33	03/04/13 09:20	
2,4-Dinitrophenol	mg/kg	ND	1.6	03/04/13 09:20	
2,4-Dinitrotoluene	mg/kg	ND	0.33	03/04/13 09:20	
2,6-Dinitrotoluene	mg/kg	ND	0.33	03/04/13 09:20	
2-Chloronaphthalene	mg/kg	ND	0.33	03/04/13 09:20	
2-Chlorophenol	mg/kg	ND	0.33	03/04/13 09:20	
2-Methylnaphthalene	mg/kg	ND	0.33	03/04/13 09:20	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	03/04/13 09:20	
2-Nitroaniline	mg/kg	ND	1.6	03/04/13 09:20	
2-Nitrophenol	mg/kg	ND	0.33	03/04/13 09:20	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.66	03/04/13 09:20	
3-Nitroaniline	mg/kg	ND	1.6	03/04/13 09:20	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	03/04/13 09:20	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	03/04/13 09:20	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	03/04/13 09:20	
4-Chloroaniline	mg/kg	ND	0.66	03/04/13 09:20	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	03/04/13 09:20	
4-Nitroaniline	mg/kg	ND	1.6	03/04/13 09:20	
4-Nitrophenol	mg/kg	ND	1.6	03/04/13 09:20	
Acenaphthene	mg/kg	ND	0.33	03/04/13 09:20	
Acenaphthylene	mg/kg	ND	0.33	03/04/13 09:20	
Anthracene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(a)anthracene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(a)pyrene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(b)fluoranthene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	03/04/13 09:20	
Benzo(k)fluoranthene	mg/kg	ND	0.33	03/04/13 09:20	
Benzyl alcohol	mg/kg	ND	0.66	03/04/13 09:20	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	03/04/13 09:20	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	03/04/13 09:20	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.33	03/04/13 09:20	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	03/04/13 09:20	
Butylbenzylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Chrysene	mg/kg	ND	0.33	03/04/13 09:20	
Di-n-butylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Di-n-octylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	03/04/13 09:20	
Dibenzofuran	mg/kg	ND	0.33	03/04/13 09:20	
Diethylphthalate	mg/kg	ND	0.33	03/04/13 09:20	
Dimethylphthalate	mg/kg	ND	0.33	03/04/13 09:20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

METHOD BLANK: 877793 Matrix: Solid

Associated Lab Samples: 5076644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoranthene	mg/kg	ND	0.33	03/04/13 09:20	
Fluorene	mg/kg	ND	0.33	03/04/13 09:20	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	03/04/13 09:20	
Hexachloroethane	mg/kg	ND	0.33	03/04/13 09:20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	03/04/13 09:20	
Isophorone	mg/kg	ND	0.33	03/04/13 09:20	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	03/04/13 09:20	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	03/04/13 09:20	
Naphthalene	mg/kg	ND	0.33	03/04/13 09:20	
Nitrobenzene	mg/kg	ND	0.33	03/04/13 09:20	
Phenanthrene	mg/kg	ND	0.33	03/04/13 09:20	
Phenol	mg/kg	ND	0.33	03/04/13 09:20	
Pyrene	mg/kg	ND	0.33	03/04/13 09:20	
2,4,6-Tribromophenol (S)	%.	75	24-114	03/04/13 09:20	
2-Fluorobiphenyl (S)	%.	68	36-94	03/04/13 09:20	
2-Fluorophenol (S)	%.	72	29-97	03/04/13 09:20	
Nitrobenzene-d5 (S)	%.	71	26-98	03/04/13 09:20	
p-Terphenyl-d14 (S)	%.	80	32-112	03/04/13 09:20	
Phenol-d5 (S)	%.	72	33-98	03/04/13 09:20	

LABORATORY CONTROL SAMPLE: 877794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	2.1	64	49-102	
2-Chlorophenol	mg/kg	3.3	2.2	65	44-98	
2-Methylnaphthalene	mg/kg	3.3	2.2	65	49-94	
4-Chloro-3-methylphenol	mg/kg	3.3	2.1	62	53-103	
4-Nitrophenol	mg/kg	3.3	2.3	69	25-110	
Acenaphthene	mg/kg	3.3	2.2	65	55-103	
Acenaphthylene	mg/kg	3.3	2.2	67	58-107	
Anthracene	mg/kg	3.3	2.3	69	57-113	
Benzo(a)anthracene	mg/kg	3.3	2.1	64	56-110	
Benzo(a)pyrene	mg/kg	3.3	2.3	70	59-110	
Benzo(b)fluoranthene	mg/kg	3.3	2.2	65	53-109	
Benzo(g,h,i)perylene	mg/kg	3.3	2.2	65	55-109	
Benzo(k)fluoranthene	mg/kg	3.3	2.3	69	55-108	
Chrysene	mg/kg	3.3	2.2	65	57-108	
Dibenz(a,h)anthracene	mg/kg	3.3	2.2	67	53-111	
Fluoranthene	mg/kg	3.3	2.2	67	59-108	
Fluorene	mg/kg	3.3	2.2	65	57-107	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	2.2	67	54-110	
N-Nitroso-di-n-propylamine	mg/kg	3.3	2.0	61	46-96	
Naphthalene	mg/kg	3.3	2.1	63	44-100	
Phenanthrene	mg/kg	3.3	2.2	67	53-106	
Phenol	mg/kg	3.3	2.0	61	47-100	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

LABORATORY CONTROL SAMPLE: 877794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	mg/kg	3.3	2.3	69	60-112	
2,4,6-Tribromophenol (S)	%.			67	24-114	
2-Fluorobiphenyl (S)	%.			61	36-94	
2-Fluorophenol (S)	%.			66	29-97	
Nitrobenzene-d5 (S)	%.			66	26-98	
p-Terphenyl-d14 (S)	%.			71	32-112	
Phenol-d5 (S)	%.			67	33-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 877795 877796

Parameter	Units	5076593002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	3.5	3.5	2.3	2.6	64	75	15-108	15	20	
2-Chlorophenol	mg/kg	ND	3.5	3.5	2.2	2.6	63	74	31-94	17	20	
2-Methylnaphthalene	mg/kg	ND	3.5	3.5	2.2	2.7	62	75	33-93	20	20	
4-Chloro-3-methylphenol	mg/kg	ND	3.5	3.5	2.2	2.7	62	76	35-102	20	20	
4-Nitrophenol	mg/kg	ND	3.5	3.5	2.7	3.1	77	88	10-125	14	20	
Acenaphthene	mg/kg	ND	3.5	3.5	2.4	2.7	67	76	36-98	14	20	
Acenaphthylene	mg/kg	ND	3.5	3.5	2.4	2.8	69	79	37-106	14	20	
Anthracene	mg/kg	ND	3.5	3.5	2.5	2.9	70	82	30-107	15	20	
Benzo(a)anthracene	mg/kg	ND	3.5	3.5	2.3	2.6	65	73	30-100	12	20	
Benzo(a)pyrene	mg/kg	ND	3.5	3.5	2.5	2.7	70	77	24-103	10	20	
Benzo(b)fluoranthene	mg/kg	ND	3.5	3.5	2.3	2.7	64	75	26-100	16	20	
Benzo(g,h,i)perylene	mg/kg	ND	3.5	3.5	2.3	2.5	65	71	24-100	10	20	
Benzo(k)fluoranthene	mg/kg	ND	3.5	3.5	2.4	2.7	67	76	29-100	13	20	
Chrysene	mg/kg	ND	3.5	3.5	2.3	2.6	65	72	30-99	11	20	
Dibenz(a,h)anthracene	mg/kg	ND	3.5	3.5	2.4	2.7	66	76	26-100	13	20	
Fluoranthene	mg/kg	ND	3.5	3.5	2.4	2.8	69	79	35-101	14	20	
Fluorene	mg/kg	ND	3.5	3.5	2.3	2.7	65	76	38-98	15	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	3.5	3.5	2.3	2.6	64	73	23-99	13	20	
N-Nitroso-di-n-propylamine	mg/kg	ND	3.5	3.5	2.2	2.5	62	70	33-96	12	20	
Naphthalene	mg/kg	ND	3.5	3.5	2.2	2.6	61	73	33-92	18	20	
Phenanthrene	mg/kg	ND	3.5	3.5	2.4	2.8	68	78	35-101	15	20	
Phenol	mg/kg	ND	3.5	3.5	2.2	2.5	62	71	32-99	14	20	
Pyrene	mg/kg	ND	3.5	3.5	2.5	2.8	69	79	37-103	13	20	
2,4,6-Tribromophenol (S)	%.						73	85	24-114		20	
2-Fluorobiphenyl (S)	%.						65	75	36-94		20	
2-Fluorophenol (S)	%.						69	78	29-97		20	
Nitrobenzene-d5 (S)	%.						67	78	26-98		20	
p-Terphenyl-d14 (S)	%.						70	85	32-112		20	
Phenol-d5 (S)	%.						68	78	33-98		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Hudepohl
Pace Project No.: 5076644

QC Batch: PMST/8003
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5076644001

SAMPLE DUPLICATE: 877276

Parameter	Units	5076593001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.3	4.8	11	5	

SAMPLE DUPLICATE: 877277

Parameter	Units	5076644001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.9	5.2	6	5	R1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Hudepohl
Pace Project No.: 5076644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD CROSS REFERENCE TABLE

Project: Hudepohl
Pace Project No.: 5076644

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B
7471 Mercury	Solid	SW-846 7471A	SW-846 7471A
8015 GRO 5035	Solid	SW-846 8015B	SW-846 5035A
8015 Gasoline Range Organics	Solid	SW-846 8015A	SW-846 5030A
8015 TPH Ohio Microwave	Solid	SW-846 8015B	SW-846 3546
8260 MSV	Water	SW-846 8260B	SW-846 5030B
8260 MSV 5030 Low Level	Solid	SW-846 8260A	SW-846 5030A
8270 MSSV SHORT LIST MICROWAVE	Solid	SW-846 8270C	SW-846 3546

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hudepohl
Pace Project No.: 5076644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5076644001	**MW-7:2-4 DUP**	EPA 3546	OEXT/32113	EPA 8015 Mod Ext	GCSV/10581
5076644001	**MW-7:2-4 DUP**	EPA 8015 Mod Pur	GCV/16363		
5076644001	**MW-7:2-4 DUP**	EPA 3050	MPRP/10745	EPA 6010	ICP/11385
5076644001	**MW-7:2-4 DUP**	EPA 7471	MERP/4476	EPA 7471	MERC/4603
5076644001	**MW-7:2-4 DUP**	EPA 3546	OEXT/32120	EPA 8270	MSSV/12027
5076644001	**MW-7:2-4 DUP**	EPA 8260	MSV/51001		
5076644002	**MW-2**	EPA 8260	MSV/50973		
5076644003	**MW-7**	EPA 8260	MSV/50973		
5076644004	**MW-7 DUP**	EPA 8260	MSV/50973		
5076644005	**MW-6**	EPA 8260	MSV/50996		
5076644006	**MW-5**	EPA 8260	MSV/50996		
5076644007	**MW-4**	EPA 8260	MSV/50996		
5076644008	**TRIP BLANK**	EPA 8260	MSV/50996		
5076644001	**MW-7:2-4 DUP**	ASTM D2974-87	PMST/8003		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1605323

Section A Required Client Information:

Company: PANDEY
Address: 673 Mohawk #300
Cols. OH 43206
Email To: aharnocz@pandeyenvironmental.com
Phone: 614-444-8078 Fax: 444-8075
Requested Due Date/TAT: See Email

Section B Required Project Information:

Report To: Alex Harnocz
Copy To: Nate Wanner
Purchase Order No.:
Project Name: ~~Cincinnati~~ Hudepohl
Project Number:

Section C Invoice Information:

Attention: Nate Wanner
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Ken Hunt
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER VAP

Site Location STATE: Ohio

5076644

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	VOC	SVOC	RCRA 8 Metals	TPH DRO	TPH GRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-7: 2-4 DUP	SL	G			2/22	12:05		2	X									X	X	X	X	X		-001
2	MW-2	WT	G				11:15		3				X						X						-002
3	MW-7	WT	G				12:40		3				X						X						-003
4	MW-7 DUP	WT	G				12:45		3				X						X						-004
5	MW-6	WT	G				2:00		3				X						X						-005
6	MW-5	WT	G				3:20		3				X						X						-006
7	MW-4	WT	G				4:05		3				X						X						-007
8	Trip Blank	WT	G						3				X						X						-008
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Harnocz / PANDEY	2/22	4:45	FedEx	2/22	4:45	
				James Jones	2/23	1053	4.2

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alex Harnocz

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/22/13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pandey

Project # 5076644

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: 1 2 3 ~~4~~ 6 A B C D E Type of Ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable): 4.2 Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2-23-13 JJ

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Headspace in VOA Vials (>6mm):	☒Yes	☐No	☐N/A	10. two trip blanks
Trip Blank Present:	☒Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	12.
Sufficient Volume:	☒Yes	☐No	☐N/A	13.
Correct Containers Used:	☒Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt **Date:** 2/23/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Pandey

COC PAGE 1 of 1

COC ID#

Project # 50766414

Pace Analytical
www.pacelabs.com

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			2													
2	3															
3	3															
4	3															
5	3															
6	3															
7	3															
8	3															
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Appendix G

Regulatory Standards and Data Validation

G1 – Generic Direct Contact Soil Standards

G2 – Groundwater Standards Used in VAP Risk Assessment

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Metals & Inorganic Analytes							
Antimony	1200	n/a	n/a	1200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Arsenic	610	82	n/a	82	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Barium	370000	n/a	n/a	370000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Beryllium	5100	39000	n/a	5100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cadmium	2300	52000	n/a	2300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chromium	n/a	n/a	n/a	n/a	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chromium	8400	7900	n/a	7900	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chromium	4400000	n/a	n/a	1000000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cobalt	23000	34000	n/a	23000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Copper	120000	n/a	n/a	120000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cyanide, Free	59000	n/a	n/a	59000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluorine (soluble fluoride)	180000	n/a	n/a	180000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Lead	n/a	n/a	n/a	1800	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Mercury	290	n/a	n/a	290	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nickel	44000	n/a	n/a	44000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Selenium	15000	n/a	n/a	15000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Silver	15000	n/a	n/a	15000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Thallium	230	n/a	n/a	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vanadium	26000	n/a	n/a	26000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Zinc	880000	n/a	n/a	880000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Total Petroleum Hydrocarbons (TPH)							

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Total Petroleum Hydrocarbons (TPH)							
TPH (C06-C12)	n/a	n/a	n/a	8000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C10-C20)	n/a	n/a	n/a	20000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C16-C34)	n/a	n/a	n/a	20000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C20-C34 Silty Clay
TPH (C20-C34)	n/a	n/a	n/a	40000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C21-C34)	n/a	n/a	n/a	40000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C20-C34 Silty Clay
TPH (C4-C10)	n/a	n/a	n/a	8000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C06-C12 Silty Clay
Herbicides							
2,3,7,8-TCDD (Dioxin)	0.002	0.00089	n/a	0.00089	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Polychlorinated Biphenyls (PCBs)							
Polychlorinated Biphenyls	18	26	n/a	18	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	88000	81	748	81	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,1-Trichloroethane	11000	n/a	1343	1300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,2,2-Tetrachloroethane	180000	24	1673	24	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,2-Trichloroethane	12000	55	2553	55	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1-Dichloroethane	3000	n/a	2335	2300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1-Dichloroethene	610	n/a	1668	610	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2,3-Trichloropropane	18000	28	1083	28	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2,4-Trimethylbenzene	120	n/a	255	120	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2-Dichloroethane	17000	19	2898	19	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Volatile Organic Compounds (VOCs)							
1,2-Dichloropropane	31	41	1130	31	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3,5-Trimethylbenzene	95	n/a	199	95	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3-Dichloropropene	130	84	811	84	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,4-Dioxane	160000	600	274037	600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Butanone (MEK)	220000	n/a	102144	100000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Hexanone	90000	n/a	n/a	90000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
4-Chlorotoluene	22000	n/a	230	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
4-Methyl-2-pentanone (MIBK)	98000	n/a	16000	16000	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Acetone	850000	n/a	103593	100000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acrylonitrile	48	16	22279	16	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzene	170	140	918	140	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbon disulfide	2200	n/a	1385	1400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbon tetrachloride	8.2	15	1443	8.2	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chlorobenzene	710	n/a	737	710	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloroethane	18000	68000	2206	2200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloroform	600	14	3416	14	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
cis-1,2-Dichloroethene	29000	n/a	2206	2200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
cis-1,3-Dichloropropene	130	84	810	84	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Dibromochloromethane	59000	2300	1647	1600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodifluoromethane	520	n/a	1359	520	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethyl Ether	590000	n/a	33062	33000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Volatile Organic Compounds (VOCs)							
Ethylbenzene	8500	n/a	234	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Formaldehyde	2900	1200	128801	1200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Formic acid	1700	n/a	172001	1700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isobutyl Alcohol	880000	n/a	40126	40000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isopropylbenzene (Cumene)	5700	n/a	255	260	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methanol	240000	n/a	106035	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methyl Isobutyl Ketone (MIBK)	97000	n/a	15942	16000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methyl tert- Butyl Ether (MTBE)	28000	1900	6743	1900	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methylene chloride	4900	570	2297	570	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Butylbenzene	52000	n/a	178	178.2	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Hexane	800	n/a	186	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Propylbenzene	5800	n/a	236	36.47483084713	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
p-Isopropyltoluene	220000	n/a	573	72.92529002016	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
sec-Butylbenzene	62000	n/a	764	64.49881848635	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Styrene	29000	n/a	1734	1700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
tert-Butylbenzene	46000	n/a	215	14.96013105614	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Tetrachloroethene	1700	53	376	53	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Toluene	33000	n/a	521	520	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
trans-1,2-Dichloroethene	260	n/a	1806	260	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
trans-1,3-Dichloropropene	130	84	810	84	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Trichloroethene	3200	150	953	150	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Volatile Organic Compounds (VOCs)							
Trichlorofluoromethane	1600	n/a	1565	1600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vinyl acetate	2000	n/a	2708	2000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vinyl chloride	210	12	1144	12	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Xylene (Total)	1500	n/a	370	370	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Semi-Volatile Organic Compounds (SVOCs)							
1,2-Dichlorobenzene	4600	n/a	373	370	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2-Dinitrobenzene	110	n/a	n/a	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3,5 - Trinitrobenzene (s)	34000	n/a	n/a	34000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3-Dinitrobenzene, meta -	110	n/a	n/a	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,4-Dichlorobenzene	17000	130	n/a	130	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1-Methylnaphthalene	66000	n/a	359	360	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4,5-Trichlorophenol	110000	n/a	n/a	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4,6-Trichlorophenol	n/a	4400	n/a	4400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4-Dimethylphenol	22000	n/a	n/a	22000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4-Dinitrotoluene	2200	98	n/a	98	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,6-Dinitrotoluene	1100	100	n/a	100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Methylnaphthalene	3700	n/a	n/a	3700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Methylphenol(o-Cresol)	56000	n/a	n/a	56000	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
3&4-Methylphenol(m&p Cresol)	5600	n/a	n/a	5600	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
3,3-Dichlorobenzidine	n/a	110	n/a	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acenaphthene	56000	n/a	n/a	56000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Semi-Volatile Organic Compounds (SVOCs)							
Acenaphthylene	56000	n/a	n/a	56000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acetophenone	110000	n/a	n/a	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Aniline	540	7400	62083	540	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Anthracene	280000	n/a	n/a	280000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzidine	3400	0.29	n/a	0.3	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(a)anthracene	n/a	76	n/a	76	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(a)pyrene	n/a	7.7	n/a	7.7	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(b)fluoranthene	n/a	77	n/a	77	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(g,h,i)perylene	28000	n/a	n/a	28000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(k)fluoranthene	n/a	770	n/a	770	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
bis(2-Ethylhexyl)phthalate	22000	4800	190	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Butylbenzylphthalate	220000	4800	58	58	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbazole	n/a	3400	n/a	3400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chlordane	670	270	n/a	270	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chrysene	n/a	7600	n/a	7600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dibenz(a,h)anthracene	n/a	7.7	n/a	7.7	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyldichloroethane	4100	470	n/a	470	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyldichloroethene	n/a	310	n/a	310	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyltrichloroethane	1000	350	n/a	350	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorophenoxyacetic acid, 2,4	11000	n/a	n/a	11000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Diethylphthalate	900000	n/a	593	590	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Semi-Volatile Organic Compounds (SVOCs)							
Dimethylphthalate	900000	n/a	5680	5680	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di-n-butylphthalate	110000	n/a	107	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di-n-octylphthalate	45000	n/a	12	12	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Endrin	340	n/a	n/a	340	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethylene Glycol	760000	n/a	106000	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluoranthene	37000	n/a	n/a	37000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluorene	37000	n/a	n/a	37000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Heptachlor	560	8.9	n/a	8.9	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Heptachlor Epoxide	15	7	n/a	7	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachloro-1,3-butadiene	220	240	1032	220	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachlorobenzene	900	28	n/a	28	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachloroethane	1100	1700	n/a	1100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Indeno(1,2,3-cd)pyrene	n/a	77	n/a	77	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isophorone	140000	71000	4570	4600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Lindane	550	70	n/a	70	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
m-cresol	56000	n/a	61381	56000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methoxychlor	5600	n/a	n/a	5600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Naphthalene	280	150	n/a	150	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nitrobenzene	170	n/a	1463	170	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
N-Nitrosodiphenylamine	22000	10000	n/a	10000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
o-cresol	56000	n/a	n/a	56000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Commercial							
Semi-Volatile Organic Compounds (SVOCs)							
p-cresol	5600	n/a	n/a	5600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pentachlorophenol	17000	280	n/a	280	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Phenanthrene	280000	n/a	n/a	280000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Phenol	66000	n/a	n/a	66000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pyrene	28000	n/a	n/a	28000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pyridine	1100	n/a	400084	1100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Silvex	9000	n/a	n/a	9000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Toxaphene	n/a	59	n/a	59	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Metals & Inorganic Analytes							
Antimony	390	n/a	n/a	390	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Arsenic	420	640	n/a	420	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Barium	120000	n/a	n/a	120000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Beryllium	3100	63000	n/a	3100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cadmium	1600	83000	n/a	1600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chromium	2900000	n/a	n/a	1000000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chromium	n/a	n/a	n/a	n/a	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chromium	15000	13000	n/a	13000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cobalt	4000	54000	n/a	4000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Copper	19000	n/a	n/a	19000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cyanide, Free	39000	n/a	n/a	39000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluorine (soluble fluoride)	120000	n/a	n/a	120000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Lead	n/a	n/a	n/a	750	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Mercury	190	n/a	n/a	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nickel	21000	n/a	n/a	21000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Selenium	9700	n/a	n/a	9700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Silver	9700	n/a	n/a	9700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Thallium	1600	n/a	n/a	1600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vanadium	17000	n/a	n/a	17000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Zinc	580000	n/a	n/a	580000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Total Petroleum Hydrocarbons (TPH)							

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Total Petroleum Hydrocarbons (TPH)							
TPH (C06-C12)	n/a	n/a	n/a	8000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C10-C20)	n/a	n/a	n/a	20000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C16-C34)	n/a	n/a	n/a	20000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C20-C34 Silty Clay
TPH (C20-C34)	n/a	n/a	n/a	40000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C21-C34)	n/a	n/a	n/a	40000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C20-C34 Silty Clay
TPH (C4-C10)	n/a	n/a	n/a	8000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C06-C12 Silty Clay
Herbicides							
2,3,7,8-TCDD (Dioxin)	0.0013	0.0062	n/a	0.0013	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Polychlorinated Biphenyls (PCBs)							
Polychlorinated Biphenyls	42	230	n/a	42	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	58000	310	748	310	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,1-Trichloroethane	33000	n/a	1343	1300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,2,2-Tetrachloroethane	970000	94	1673	94	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,2-Trichloroethane	78000	210	2553	210	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1-Dichloroethane	2500	n/a	2335	2300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1-Dichloroethene	180	n/a	1668	180	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2,3-Trichloropropane	120000	190	1083	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2,4-Trimethylbenzene	35	n/a	255	35	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2-Dichloroethane	6600	75	2898	75	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Volatile Organic Compounds (VOCs)							
1,2-Dichloropropane	30	160	1130	30	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3,5-Trimethylbenzene	280	n/a	199	200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3-Dichloropropene	38	330	811	38	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,4-Dioxane	87000	2300	274037	2300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Butanone (MEK)	15000	n/a	102144	15000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Hexanone	680000	n/a	n/a	680000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
4-Chlorotoluene	170000	n/a	230	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
4-Methyl-2-pentanone (MIBK)	12000	n/a	16000	12000	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Acetone	320000	n/a	103593	100000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acrylonitrile	14	69	22279	14	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzene	150	540	918	150	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbon disulfide	190	n/a	1385	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbon tetrachloride	24	56	1443	24	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chlorobenzene	2100	n/a	737	740	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloroethane	5500	470000	2206	2200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloroform	430	55	3416	55	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
cis-1,2-Dichloroethene	190000	n/a	2206	2200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
cis-1,3-Dichloropropene	38	330	810	38	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Dibromochloromethane	390000	16000	1647	1600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodifluoromethane	1500	n/a	1359	1400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethyl Ether	3900000	n/a	33062	33000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Volatile Organic Compounds (VOCs)							
Ethylbenzene	2600	n/a	234	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Formaldehyde	3500	4700	128801	3500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Formic acid	1500	n/a	172001	1500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isobutyl Alcohol	5800000	n/a	40126	40000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isopropylbenzene (Cumene)	17000	n/a	255	260	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methanol	9700000	n/a	106035	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methyl Isobutyl Ketone (MIBK)	12000	n/a	15942	12000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methyl tert- Butyl Ether (MTBE)	8300	7500	6743	6700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methylene chloride	1500	2200	2297	1500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Butylbenzene	6300	n/a	178	178.2	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Hexane	710	n/a	186	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Propylbenzene	17000	n/a	236	36.47483084713	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
p-Isopropyltoluene	170000	n/a	573	72.92529002016	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
sec-Butylbenzene	10000	n/a	764	64.49881848635	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Styrene	27000	n/a	1734	1700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
tert-Butylbenzene	4800	n/a	215	14.96013105614	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Tetrachloroethene	540	220	376	220	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Toluene	2000	n/a	521	520	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
trans-1,2-Dichloroethene	78	n/a	1806	78	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
trans-1,3-Dichloropropene	38	330	810	38	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Trichloroethene	960	560	953	560	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Volatile Organic Compounds (VOCs)							
Trichlorofluoromethane	4800	n/a	1565	1600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vinyl acetate	100	n/a	2708	100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vinyl chloride	63	48	1144	48	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Xylene (Total)	440	n/a	370	370	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Semi-Volatile Organic Compounds (SVOCs)							
1,2-Dichlorobenzene	12000	n/a	373	370	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2-Dinitrobenzene	850	n/a	n/a	850	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3,5 - Trinitrobenzene (s)	430	n/a	n/a	430	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3-Dinitrobenzene, meta -	850	n/a	n/a	850	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,4-Dichlorobenzene	15000	510	n/a	510	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1-Methylnaphthalene	51000	n/a	359	360	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4,5-Trichlorophenol	850000	n/a	n/a	850000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4,6-Trichlorophenol	n/a	29000	n/a	29000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4-Dimethylphenol	170000	n/a	n/a	170000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4-Dinitrotoluene	1700	870	n/a	870	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,6-Dinitrotoluene	8600	880	n/a	880	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Methylnaphthalene	2800	n/a	n/a	2800	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Methylphenol(o-Cresol)	430000	n/a	n/a	430000	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
3&4-Methylphenol(m&p Cresol)	4300	n/a	n/a	4300	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
3,3-Dichlorobenzidine	n/a	730	n/a	730	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acenaphthene	440000	n/a	n/a	440000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Semi-Volatile Organic Compounds (SVOCs)							
Acenaphthylene	440000	n/a	n/a	440000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acetophenone	850000	n/a	n/a	850000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Aniline	1300	44000	62083	1300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Anthracene	2200000	n/a	n/a	1000000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzidine	2600	2.5	n/a	2.5	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(a)anthracene	n/a	680	n/a	680	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(a)pyrene	n/a	69	n/a	69	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(b)fluoranthene	n/a	690	n/a	690	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(g,h,i)perylene	220000	n/a	n/a	220000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(k)fluoranthene	n/a	6900	n/a	6900	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
bis(2-Ethylhexyl)phthalate	170000	42000	190	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Butylbenzylphthalate	1700000	43000	58	58	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbazole	n/a	30000	n/a	30000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chlordane	77	1900	n/a	77	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chrysene	n/a	69000	n/a	69000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dibenz(a,h)anthracene	n/a	69	n/a	69	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyldichloroethane	2800	3500	n/a	2800	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyldichloroethene	n/a	2200	n/a	2200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyltrichloroethane	700	2700	n/a	700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorophenoxyacetic acid, 2,4	8500	n/a	n/a	8500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Diethylphthalate	6800000	n/a	593	590	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Semi-Volatile Organic Compounds (SVOCs)							
Dimethylphthalate	6800000	n/a	5680	5680	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di-n-butylphthalate	850000	n/a	107	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di-n-octylphthalate	340000	n/a	12	12	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Endrin	1700	n/a	n/a	1700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethylene Glycol	1700000	n/a	106000	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluoranthene	290000	n/a	n/a	290000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluorene	290000	n/a	n/a	290000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Heptachlor	85	52	n/a	52	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Heptachlor Epoxide	11	58	n/a	11	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachloro-1,3-butadiene	170	1100	1032	170	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachlorobenzene	85	170	n/a	85	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachloroethane	8500	8000	n/a	8000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Indeno(1,2,3-cd)pyrene	n/a	690	n/a	690	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isophorone	1700000	630000	4570	4600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Lindane	3900	420	n/a	420	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
m-cresol	430000	n/a	61381	61000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methoxychlor	4300	n/a	n/a	4300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Naphthalene	84	580	n/a	84	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nitrobenzene	610	n/a	1463	610	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
N-Nitrosodiphenylamine	17000	71000	n/a	17000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
o-cresol	430000	n/a	n/a	430000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Construction							
Semi-Volatile Organic Compounds (SVOCs)							
p-cresol	4300	n/a	n/a	4300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pentachlorophenol	460	2600	n/a	460	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Phenanthrene	2200000	n/a	n/a	2200000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Phenol	510000	n/a	n/a	510000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pyrene	220000	n/a	n/a	220000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pyridine	8500	n/a	400084	8500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Silvex	6800	n/a	n/a	6800	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Toxaphene	n/a	500	n/a	500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Metals & Inorganic Analytes							
Antimony	30	n/a	n/a	30	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Arsenic	21	6.7	n/a	6.7	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Barium	15000	n/a	n/a	15000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Beryllium	150	16000	n/a	150	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Cadmium	72	22000	n/a	72	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chromium	n/a	n/a	n/a	n/a	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chromium	230	3300	n/a	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chromium	110000	n/a	n/a	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Cobalt	1400	14000	n/a	1400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Copper	3000	n/a	n/a	3000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Cyanide, Free	1500	n/a	n/a	1500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Fluorine (soluble fluoride)	4500	n/a	n/a	4500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Lead	n/a	n/a	n/a	400	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Mercury	7.6	n/a	n/a	7.6	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Nickel	1500	n/a	n/a	1500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Selenium	380	n/a	n/a	380	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Silver	380	n/a	n/a	380	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Thallium	6.1	n/a	n/a	6.1	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Vanadium	680	n/a	n/a	680	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Zinc	23000	n/a	n/a	23000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Total Petroleum Hydrocarbons (TPH)							

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Total Petroleum Hydrocarbons (TPH)							
TPH (C06-C12)	n/a	n/a	n/a	8000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C10-C20)	n/a	n/a	n/a	20000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C16-C34)	n/a	n/a	n/a	20000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C20-C34 Silty Clay
TPH (C20-C34)	n/a	n/a	n/a	40000	mg/kg	3/1/2009	OAC 3745-300-09 - Effective 3/1/2009 Silty Clay
TPH (C21-C34)	n/a	n/a	n/a	40000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C20-C34 Silty Clay
TPH (C4-C10)	n/a	n/a	n/a	8000	mg/kg	3/1/2009	VAP Rule 9 Table I std. C06-C12 Silty Clay
Herbicides							
2,3,7,8-TCDD (Dioxin)	0.00039	0.000034	n/a	0.000034	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Polychlorinated Biphenyls (PCBs)							
Polychlorinated Biphenyls	1.2	4	n/a	1.2	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	2300	37	748	37	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,1,1-Trichloroethane	6100	n/a	1343	1300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,1,2,2-Tetrachloroethane	4500	11	1673	11	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,1,2-Trichloroethane	300	25	2553	25	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,1-Dichloroethane	2000	n/a	2335	2000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,1-Dichloroethene	410	n/a	1668	410	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,2,3-Trichloropropane	450	1.5	1083	1.5	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,2,4-Trimethylbenzene	85	n/a	255	85	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,2-Dichloroethane	1400	8.7	2898	8.7	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Volatile Organic Compounds (VOCs)							
1,2-Dichloropropane	23	19	1130	19	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,3,5-Trimethylbenzene	69	n/a	199	69	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,3-Dichloropropene	92	35	811	35	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,4-Dioxane	7400	260	274037	260	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2-Butanone (MEK)	37000	n/a	102144	37000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2-Hexanone	5000	n/a	n/a	5000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
4-Chlorotoluene	1300	n/a	230	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
4-Methyl-2-pentanone (MIBK)	5800	n/a	16000	5800	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Acetone	64000	n/a	103593	64000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Acrylonitrile	35	6.6	22279	6.6	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzene	94	64	918	64	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Carbon disulfide	1400	n/a	1385	1400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Carbon tetrachloride	5.5	6.6	1443	5.5	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chlorobenzene	410	n/a	737	410	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chloroethane	10000	3700	2206	2200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chloroform	300	6.6	3416	6.6	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
cis-1,2-Dichloroethene	760	n/a	2206	760	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
cis-1,3-Dichloropropene	92	35	810	35	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Dibromochloromethane	1500	130	1647	130	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Dichlorodifluoromethane	380	n/a	1359	380	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Ethyl Ether	15000	n/a	33062	15000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Volatile Organic Compounds (VOCs)							
Ethylbenzene	3600	n/a	234	230	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Formaldehyde	1900	560	128801	560	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Formic acid	1200	n/a	172001	1200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Isobutyl Alcohol	23000	n/a	40126	23000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Isopropylbenzene (Cumene)	2700	n/a	255	260	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Methanol	33000	n/a	106035	33000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Methyl Isobutyl Ketone (MIBK)	5800	n/a	15942	5800	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Methyl tert- Butyl Ether (MTBE)	21000	850	6743	850	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Methylene chloride	2200	250	2297	250	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
n-Butylbenzene	4700	n/a	178	178	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
n-Hexane	530	n/a	186	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
n-Propylbenzene	2700	n/a	236	236	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
p-Isopropyltoluene	13000	n/a	573	573	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
sec-Butylbenzene	4800	n/a	764	764	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Styrene	9500	n/a	1734	1700	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
tert-Butylbenzene	4700	n/a	215	215	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Tetrachloroethene	510	17	376	17	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Toluene	5100	n/a	521	520	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
trans-1,2-Dichloroethene	180	n/a	1806	180	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
trans-1,3-Dichloropropene	92	35	810	35	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
Trichloroethene	2300	65	953	65	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Volatile Organic Compounds (VOCs)							
Trichlorofluoromethane	1200	n/a	1565	1200	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Vinyl acetate	1400	n/a	2708	1400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Vinyl chloride	98	4.6	1144	4.6	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Xylene (Total)	1000	n/a	370	370	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Semi-Volatile Organic Compounds (SVOCs)							
1,2-Dichlorobenzene	2300	n/a	373	370	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,2-Dinitrobenzene	6.3	n/a	n/a	6.3	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,3,5 - Trinitrobenzene (s)	1900	n/a	n/a	1900	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,3-Dinitrobenzene, meta -	6.3	n/a	n/a	6.3	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1,4-Dichlorobenzene	3500	60	n/a	60	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
1-Methylnaphthalene	4100	n/a	359	360	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2,4,5-Trichlorophenol	6300	n/a	n/a	6300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2,4,6-Trichlorophenol	n/a	770	n/a	770	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2,4-Dimethylphenol	1300	n/a	n/a	1300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2,4-Dinitrotoluene	120	n/a	n/a	13	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2,6-Dinitrotoluene	63	13	n/a	13	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2-Methylnaphthalene	240	n/a	n/a	240	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
2-Methylphenol(o-Cresol)	3100	n/a	n/a	3100	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
3&4-Methylphenol(m&p Cresol)	310	n/a	n/a	310	mg/kg	3/1/2009	OAC 3745-300-08 - Effective 3/1/2009
3,3-Dichlorobenzidine	n/a	19	n/a	19	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Acenaphthene	3500	n/a	n/a	3500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Semi-Volatile Organic Compounds (SVOCs)							
Acenaphthylene	3500	n/a	n/a	3500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Acetophenone	6300	n/a	n/a	6300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Aniline	220	1500	62083	220	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Anthracene	18000	n/a	n/a	18000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzidine	190	0.04	n/a	0.04	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzo(a)anthracene	n/a	11	n/a	11	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzo(a)pyrene	n/a	1.1	n/a	1.1	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzo(b)fluoranthene	n/a	11	n/a	11	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzo(g,h,i)perylene	1800	n/a	n/a	1800	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Benzo(k)fluoranthene	n/a	110	n/a	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
bis(2-Ethylhexyl)phthalate	1300	620	190	190	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Butylbenzylphthalate	13000	620	58	58	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Carbazole	n/a	430	n/a	430	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chlordane	34	28	n/a	28	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Chrysene	n/a	1100	n/a	1100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Dibenz(a,h)anthracene	n/a	1.1	n/a	1.1	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Dichlorodiphenyldichloroethane	140	42	n/a	42	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Dichlorodiphenyldichloroethene	n/a	30	n/a	30	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Dichlorodiphenyltrichloroethane	36	30	n/a	30	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Dichlorophenoxyacetic acid, 2,4	630	n/a	n/a	630	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Diethylphthalate	50000	n/a	593	590	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Semi-Volatile Organic Compounds (SVOCs)							
Dimethylphthalate	50000	n/a	5680	5680	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Di-n-butylphthalate	6300	n/a	107	110	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Di-n-octylphthalate	2500	n/a	12	12	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Endrin	19	n/a	n/a	19	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Ethylene Glycol	110000	n/a	106000	110000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Fluoranthene	2400	n/a	n/a	2400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Fluorene	2400	n/a	n/a	2400	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Heptachlor	31	1.8	n/a	1.8	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Heptachlor Epoxide	0.81	0.95	n/a	0.81	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Hexachloro-1,3-butadiene	13	83	1032	13	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Hexachlorobenzene	50	5.2	n/a	5.2	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Hexachloroethane	63	550	n/a	63	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Indeno(1,2,3-cd)pyrene	n/a	11	n/a	11	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Isophorone	12000	9100	4570	4600	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Lindane	21	8.7	n/a	8.7	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
m-cresol	3100	n/a	61381	3100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Methoxychlor	310	n/a	n/a	310	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Naphthalene	180	69	n/a	69	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Nitrobenzene	27	n/a	1463	27	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
N-Nitrosodiphenylamine	1300	1700	n/a	1300	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
o-cresol	3100	n/a	n/a	3100	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G1 - Generic Direct Contact Soil Standards Used in VAP Risk Assessment

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY
ENVIRONMENTAL, LLC

Parameter	NonCancer	Cancer	SoilSaturation	Standard	Units	Date	Source
Residential							
Semi-Volatile Organic Compounds (SVOCs)							
p-cresol	310	n/a	n/a	310	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Pentachlorophenol	1400	55	n/a	55	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Phenanthrene	18000	n/a	n/a	18000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Phenol	15000	n/a	n/a	15000	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Pyrene	1800	n/a	n/a	1800	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Pyridine	63	n/a	400084	63	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Silvex	500	n/a	n/a	500	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012
Toxaphene	n/a	7.8	n/a	7.8	mg/kg	6/18/2012	CIDARS Downloaded from OEPA 6/18/2012

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Metals & Inorganic Analytes										
Antimony	15	n/a	6.3	n/a	6	6	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Arsenic	11	1.1	4.7	1.4	10	10	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Asbestos	n/a	n/a	n/a	n/a	7	7	MFL	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Barium	7600	n/a	3200	n/a	2000	2000	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Beryllium	55	n/a	24	n/a	4	4	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Bromate	n/a	n/a	n/a	n/a	10	10	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Cadmium	18	n/a	7.5	n/a	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloramines	n/a	n/a	n/a	n/a	4000	4000	RDL in ug	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Chlorine	n/a	n/a	n/a	n/a	4000	4000	RDL in ug	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Chlorine Dioxide	n/a	n/a	n/a	n/a	800	800	RDL in ug	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Chlorite	n/a	n/a	n/a	n/a	100	100	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Chromium	94	n/a	40	n/a	100	100	ug/L	MCL	6/18/2012	CIDARS 6/18/12 - Total Cr for MCL / Cr(VI) for Risk
Cobalt	760	n/a	320	n/a	n/a	320	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Copper	1500	n/a	630	n/a	n/a	1500	ug/L	MCLG	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Cyanide, Free	760	n/a	320	n/a	200	200	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluorine (soluble fluoride)	2300	n/a	950	n/a	4000	4000	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Haloacetic acids (HAA5)	n/a	n/a	n/a	n/a	60	60	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Lead	n/a	n/a	n/a	n/a	15	15	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Mercury	3.8	n/a	1.6	n/a	2	2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nickel	760	n/a	320	n/a	n/a	320	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nitrate - Nitrite (as N)	n/a	n/a	n/a	n/a	10000	10000	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Nitrate (as N)	n/a	n/a	n/a	n/a	10000	10000	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Metals & Inorganic Analytes										
Nitrite (as N)	n/a	n/a	n/a	n/a	1000	1000	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Selenium	190	n/a	79	n/a	50	50	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Silver	190	n/a	79	n/a	n/a	79	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Thallium	3	n/a	1.3	n/a	2	2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vanadium	310	n/a	130	n/a	n/a	130	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Zinc	11000	n/a	4700	n/a	n/a	4700	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pesticides										
Carbofuran	n/a	n/a	n/a	n/a	40	40	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Dibromochloropropane (DBCP)	n/a	n/a	n/a	n/a	0.2	0.2	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Endothall	n/a	n/a	n/a	n/a	100	100	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Oxamyl (Vydate)	n/a	n/a	n/a	n/a	200	200	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Herbicides										
2,3,7,8-TCDD (Dioxin)	n/a	n/a	n/a	n/a	0.00003	0.00003	ug/L	MCLG	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Alachlor	n/a	n/a	n/a	n/a	2	2	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Atrazine	n/a	n/a	n/a	n/a	3	3	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Dalapon	n/a	n/a	n/a	n/a	200	200	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Dinoseb	n/a	n/a	n/a	n/a	7	7	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Diquat	n/a	n/a	n/a	n/a	20	20	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Glyphosate	n/a	n/a	n/a	n/a	700	700	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Picloram	n/a	n/a	n/a	n/a	500	500	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Simazine	n/a	n/a	n/a	n/a	4	4	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Polychlorinated Biphenyls (PCBs)										
Polychlorinated Biphenyls	0.76	0.79	0.32	1.1	0.5	0.5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	1100	56	470	70	n/a	56	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,1-Trichloroethane	10000	n/a	4000	n/a	200	200	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,2,2-Tetrachloroethane	2200	7	930	9	n/a	7	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1,2-Trichloroethane	150	25	63	32	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1-Dichloroethane	7000	250	2600	320	n/a	250	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,1-Dichloroethene	1700	n/a	680	n/a	7	7	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2,3-Trichloropropane	230	0.23	95	0.3	n/a	0.22	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2,4-Trimethylbenzene	640	n/a	140	n/a	n/a	140	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2-Dibromoethane (EDB)	n/a	n/a	n/a	n/a	0.05	0.05	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
1,2-Dichloroethane	750	16	310	20	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,2-Dichloropropane	520	40	100	51	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3,5-Trimethylbenzene	640	n/a	140	n/a	n/a	140	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3-Dichloropropene	860	16	270	21	n/a	16	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,4-Dioxane	3800	140	1600	190	n/a	140	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Butanone (MEK)	22000	n/a	8900	n/a	n/a	8900	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Hexanone	3000	n/a	950	n/a	n/a	950	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
4-Chlorotoluene	760	n/a	320	n/a	n/a	320	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acetone	34000	n/a	14000	n/a	n/a	14000	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acrylonitrile	260	2.8	52	3.7	n/a	2.7	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzene	140	94	57	130	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Volatile Organic Compounds (VOCs)										
Carbon disulfide	3500	n/a	1400	n/a	n/a	1400	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbon tetrachloride	24	11	9.1	15	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chlorobenzene	650	n/a	250	n/a	100	100	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloroethane	15000	550	6200	730	n/a	550	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chloroform	370	40	150	48	n/a	40	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
cis-1,2-Dichloroethene	380	n/a	160	n/a	70	70	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dibromochloromethane	760	19	320	25	n/a	19	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodifluoromethane	6100	n/a	2100	n/a	n/a	2100	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethyl Ether	7600	n/a	3200	n/a	n/a	3200	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethylbenzene	3300	n/a	1400	n/a	700	700	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Formaldehyde	7600	n/a	3200	n/a	n/a	3200	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Formic acid	76000	n/a	32000	n/a	n/a	32000	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isobutyl Alcohol	11000	n/a	4700	n/a	n/a	4700	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isopropylbenzene (Cumene)	3600	n/a	1400	n/a	n/a	1400	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methanol	19000	n/a	7900	n/a	n/a	7900	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methyl Isobutyl Ketone (MIBK)	3000	n/a	1200	n/a	n/a	1200	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methyl tert- Butyl Ether (MTBE)	440000	840	84000	1100	40	40	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Methylene chloride	2200	210	920	270	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Butylbenzene	3000	n/a	1300	n/a	n/a	1300	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Hexane	2200	n/a	910	n/a	n/a	910	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
n-Propylbenzene	3600	n/a	1400	n/a	n/a	1400	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
p-Isopropyltoluene	7600	n/a	3200	n/a	n/a	3200	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Volatile Organic Compounds (VOCs)										
sec-Butylbenzene	3000	n/a	1300	n/a	n/a	1300	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Styrene	6700	n/a	2700	n/a	100	100	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
tert-Butylbenzene	3000	n/a	1300	n/a	n/a	1300	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Tetrachloroethene	350	2.6	140	3.6	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Toluene	2800	n/a	1200	n/a	1000	1000	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Total Trihalomethanes	n/a	n/a	n/a	n/a	80	80	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
trans-1,2-Dichloroethene	710	n/a	270	n/a	100	100	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Trichloroethene	16000	110	5500	150	5	5	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Trichlorofluoromethane	10000	n/a	3800	n/a	n/a	3800	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vinyl acetate	18000	n/a	4300	n/a	n/a	4300	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Vinyl chloride	110	1.1	47	1.5	2	2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Xylene (Total)	3900	n/a	1300	n/a	10000	10000	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	n/a	n/a	n/a	n/a	70	70	ug/L	MCL	12/22/2008	OAC 3745-300-08 - JCARR Filing
1,2-Dichlorobenzene	2800	n/a	1100	n/a	600	600	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3,5 - Trinitrobenzene (s)	1100	n/a	470	n/a	n/a	470	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,3-Dinitrobenzene, meta -	3.8	n/a	1.6	n/a	n/a	1.6	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1,4-Dichlorobenzene	2300	150	970	170	75	75	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
1-Methylnaphthalene	2600	n/a	1100	n/a	n/a	1100	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4,5-Trichlorophenol	3800	n/a	1600	n/a	n/a	1600	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4,6-Trichlorophenol	n/a	120	n/a	180	n/a	120	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,4-Dimethylphenol	730	n/a	310	n/a	n/a	310	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Semi-Volatile Organic Compounds (SVOCs)										
2,4-Dinitrotoluene	76	2.3	32	3.1	n/a	2.3	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2,6-Dinitrotoluene	38	2.3	16	3.1	n/a	2.3	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
2-Methylnaphthalene	150	n/a	63	n/a	n/a	63	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
3,3-Dichlorobenzidine	n/a	3.3	n/a	4.6	n/a	3.3	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acenaphthene	2300	n/a	950	n/a	n/a	950	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acenaphthylene	2300	n/a	950	n/a	n/a	950	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Acetophenone	3800	n/a	1600	n/a	n/a	1600	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Aniline	260	280	110	370	n/a	110	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Anthracene	11000	n/a	4700	n/a	n/a	4700	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzidine	110	0.0069	47	0.0092	n/a	0.01	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(a)anthracene	n/a	0.63	n/a	1.3	n/a	0.63	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(a)pyrene	n/a	0.046	n/a	0.098	0.2	0.2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(b)fluoranthene	n/a	0.46	n/a	0.99	n/a	0.46	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(g,h,i)perylene	1100	n/a	470	n/a	n/a	470	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Benzo(k)fluoranthene	n/a	22	n/a	29	n/a	22	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
bis(2-Ethylhexyl)phthalate	760	110	320	150	6	6	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Butylbenzylphthalate	7600	110	3200	150	n/a	110	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Carbazole	n/a	79	n/a	110	n/a	79	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chlordane	17	3.9	7.2	5.5	2	2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Chrysene	n/a	63	n/a	130	n/a	63	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di(2-ethylhexyl)adipate	n/a	n/a	n/a	n/a	400	400	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Dibenz(a,h)anthracene	n/a	0.0013	n/a	0.0031	n/a	0.001	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Semi-Volatile Organic Compounds (SVOCs)										
Dichlorodiphenyldichloroethane (	51	3.5	22	6	n/a	3.5	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyldichloroethene (	n/a	2.6	n/a	4.4	n/a	2.6	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorodiphenyltrichloroethane	11	2	4.8	3.6	n/a	2	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dichlorophenoxyacetic acid, 2,4 -	380	n/a	160	n/a	70	70	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Diethylphthalate	30000	n/a	13000	n/a	n/a	13000	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Dimethylphthalate	30000	n/a	13000	n/a	n/a	13000	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di-n-butylphthalate	3600	n/a	1500	n/a	n/a	1500	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Di-n-octylphthalate	1500	n/a	630	n/a	n/a	630	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Endrin	11	n/a	4.6	n/a	2	2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Ethylene Glycol	76000	n/a	32000	n/a	n/a	32000	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluoranthene	960	n/a	420	n/a	n/a	420	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Fluorene	1500	n/a	630	n/a	n/a	630	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Heptachlor	18	0.34	7.7	0.46	0.4	0.4	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Heptachlor Epoxide	0.49	0.17	0.21	0.23	0.2	0.2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachloro-1,3-butadiene	6.2	15	2.7	22	n/a	2.7	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachlorobenzene	23	0.61	9.7	0.99	1	1	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Hexachlorocyclopentadiene	n/a	n/a	n/a	n/a	50	50	ug/L	MCL	8/25/2010	CIDARS downloaded from OEPA 08/25/2010
Hexachloroethane	35	100	15	140	n/a	15	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Indeno(1,2,3-cd)pyrene	n/a	0.34	n/a	0.76	n/a	0.34	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Isophorone	7600	1700	3200	2200	n/a	1700	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Lindane	11	1.4	4.6	1.9	0.2	0.2	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
m-cresol	1900	n/a	790	n/a	n/a	790	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Table G2 - Ground Water Standards Used in VAP Risk Assessment

PANDEY
ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Adult Non-Cancer	Adult Cancer	Child Non-Cancer	Child Cancer	MCL	VAP Standard	Units	Type Of Standard	Date	Source
Semi-Volatile Organic Compounds (SVOCs)										
Methoxychlor	190	n/a	79	n/a	40	40	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Naphthalene	280	120	67	100	n/a	67	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Nitrobenzene	18	n/a	7	n/a	n/a	7	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
N-Nitrosodiphenylamine	730	300	310	420	n/a	300	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
o-cresol	1900	n/a	790	n/a	n/a	790	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
p-cresol	190	n/a	79	n/a	n/a	79	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pentachlorophenol	560	4.4	250	8.6	1	1	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Phenanthrene	11000	n/a	4700	n/a	n/a	4700	ug/L	Supplemental	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Phenol	11000	n/a	4700	n/a	n/a	4700	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pyrene	1100	n/a	470	n/a	n/a	470	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Pyridine	38	n/a	16	n/a	n/a	16	ug/L	Risk Der.	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Silvex	130	n/a	57	n/a	50	50	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12
Toxaphene	n/a	1.4	n/a	1.9	3	3	ug/L	MCL	6/18/2012	CIDARS Downloaded from OEPA 6/18/12

Appendix H

Analytical Data Summaries

H1 – Soil Analytical Results

H2 – Groundwater Analytical Results

H3 – Soil Gas Analytical Results

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	B-1: 2-4'	B-1: 10-12'	B-2: 4-6'	B-2: 12-14'	B-3: 0-2'	B-3: 8-10'	B-4A: 0-2'	B-4A:4-6'	B-4A: 12-14'	B-5: 6-8'	B-5: 20-21'	B-5: 24-25'	B-6: 8-10'	B-6: 16-18'	B-8: 0-2'	B-9: 4-5'	B-10: 4-6'	B-10: 28-30'	B-11: 4-6'
Identified Area	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Semi-Volatile Organic Compounds (PAHs)																			
Acenapthene	<0.117	<0.12	<1.07	**0.182**	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	<5.62
Acenaphthylene	<0.117	<0.12	<1.07	<0.127	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	<5.62
Anthracene	<0.117	<0.12	<1.07	**0.334**	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**13.7**
Benzo(a)anthracene	<0.117	<0.12	<1.07	**1.1**	<0.118	<0.119	NT	**0.394**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**25.7**
Benzo(b)fluoranthene	<0.117	<0.12	<1.07	**0.811**	<0.118	<0.119	NT	**0.276**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**16**
Benzo(k)fluoranthene	<0.117	<0.12	<1.07	**0.765**	<0.118	<0.119	NT	**0.35**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**19**
Benzo(g,h,i)perylene	<0.117	<0.12	<1.07	**0.581**	<0.118	<0.119	NT	**0.283**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**17.4**
Benzo(a)pyrene	<0.117	<0.12	<1.07	**1.02**	<0.118	<0.119	NT	**0.35**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**24.6**
Chrysene	<0.117	<0.12	<1.07	**1.15**	<0.118	<0.119	NT	**0.358**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**25.7**
Dibenz(a,h)anthracene	<0.117	<0.12	<1.07	**0.293**	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	<5.62
Fluoranthene	<0.117	<0.12	<1.07	**2.96**	<0.118	<0.119	NT	**0.965**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**60**
Fluorene	<0.117	<0.12	<1.07	**0.153**	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**5.83**
Indeno(1,2,3-cd)pyrene	<0.117	<0.12	<1.07	**0.628**	<0.118	<0.119	NT	**0.278**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**15.4**
Naphthalene	<0.117	<0.12	<1.07	**0.2025**	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	<5.62
2-Methylnaphthalene	<0.117	<0.12	<1.07	<0.127	<0.118	<0.119	NT	<0.113	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	<5.62
Phenanthrene	<0.117	<0.12	<1.07	**2.68**	<0.118	<0.119	NT	**0.792**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	0.123	<0.102	**42.4**
Pyrene	<0.117	<0.12	<1.07	**1.81**	<0.118	<0.119	NT	**0.701**	<0.106	<0.105	NT	<0.11	<0.115	<0.106	<0.115	<0.108	<0.108	<0.102	**43.2**
Total Petroleum Hydrocarbons																			
TPH C6-C12	<5.85	<5.8	<5.34	<6.36	<5.79	<5.76	<5.7	NT	<5.33	<5.25	NT	<5.44	<5.78	<5.31	<5.65	<5.35	<5.35	<5.07	<5.57
TPH C10-C20	<11.6	<12	**221**	**137**	<11.7	<12	NT	<11.2	<10.7	<10.5	NT	<11	<11.5	<10.5	<11.5	<10.8	**22.1**	<10.1	**844**
TPH C20-C34	<578	<598	**687**	**826**	<584	<599	NT	<562	<533	<526	NT	<548	<5.75	<523	<575	<540	<545	<507	7600
Metals																			
Arsenic	**12.7**	**11.5**	**20.6**	**15.7**	**10.7**	**11.6**	NT	**9.91**	**7.07**	**4.88**	**23.2**	NT	**11**	**4.53**	**14.4**	**8.53**	**9.6**	**3.59**	**5.95**
Barium	**106**	**60.1**	**150**	**116**	**148**	**73.3**	NT	**48.3**	**25.3**	**19.7**	**1310**	NT	**64.3**	**16.4**	**57.6**	**59.8**	**71.6**	**20.5**	**310**
Cadmium	**0.708**	**0.686**	**4.38**	**0.782**	**0.585**	**0.705**	NT	**0.541**	**0.35**	**0.244**	**2.4**	NT	**0.614**	**0.321**	**0.721**	**0.544**	**0.731**	**0.195**	**3.57**
Chromium	**15.6**	**12**	**17.7**	**20.5**	**16.6**	**13.2**	NT	**11.1**	**5.62**	**5.64**	**23.4**	NT	**13.7**	**7.07**	**13.9**	**12.2**	**11.2**	**4.1**	**30.5**
Lead	**15.3**	**11.7**	**558**	**285**	**116**	**12.5**	NT	**13.3**	**6.43**	**4.71**	**5800**	NT	**19.9**	**3.99**	**23.2**	**13.2**	**93.4**	**2.87**	**315**
Selenium	<5.05	<5.4	<5.28	<6.18	<5.57	<5.17	NT	<6.16	<4.96	<4.26	<5.98	NT	<5.6	<4.11	<5.44	<5.87	<5.35	<5.02	<5.63
Silver	<1.01	<1.08	<1.06	<1.24	<1.11	<1.03	NT	<1.23	<0.991	<0.853	<1.2	NT	<1.12	<0.822	<1.09	<1.17	<1.07	<1	<0.113
Mercury	<0.113	<0.115	**0.709**	**2.82**	<0.122	<0.113	NT	**0.121**	<0.1	<0.106	**4.44**	NT	<0.119	<0.114	<0.113	**0.125**	<0.115	<0.931	**0.469**
Polychlorinated Biphenyls																			
Total PCBs	<0.0234	<0.0241	<0.0214	<0.0255	<0.0236	<0.0239	NT	<0.0226	<0.0214	<0.0211	<0.0277	NT	<0.0231	<0.0211	<0.023	<0.0214	<0.0216	<0.0205	**0.376**

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY ENVIRONMENTAL, LLC

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	B-1: 2-4'	B-1: 10-12'	B-2: 4-6'	B-2: 12-14'	B-3: 0-2'	B-3: 8-10'	B-4A: 0-2'	B-4A:4-6'	B-4A: 12-14'	B-5: 6-8'	B-5: 20-21'	B-5: 24-25'	B-6: 8-10'	B-6: 16-18'	B-8: 0-2'	B-9: 4-5'	B-10: 4-6'	B-10: 28-30'	B-11: 4-6'
Volatile Organic Compounds																			
1,1,1,2-tetrachloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,1,1-trichloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,1,2,2-tetrachloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,1,2-trichloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,1-dichloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,1-dichloroethene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,1-dichloropropene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,2-dibromomethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,2-dichloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,2-dichloropropane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
1,3-dichloropropane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
2,2-dichloropropane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
2-butanone	<0.0220	<0.0242	<0.0209	<0.0254	<0.0234	<0.0235	<0.00228	NT	<0.0206	<0.0356	NT	<0.0361	<0.0423	<0.0187	<0.0411	<0.0212	<0.0216	<0.0201	<0.0223
2-chlorotoluene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
2-hexanone	<0.0220	<0.0242	<0.0209	<0.0254	<0.0234	<0.0235	<0.00228	NT	<0.0206	<0.0356	NT	<0.0361	<0.0423	<0.0187	<0.0411	<0.0212	<0.0216	<0.0201	<0.0223
4-chlorotoluene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
4-methyl-2-pentanone	<0.0220	<0.0242	<0.0209	<0.0254	<0.0234	<0.0235	<0.00228	NT	<0.0206	<0.0356	NT	<0.0361	<0.0423	<0.0187	<0.0411	<0.0212	<0.0216	<0.0201	<0.0223
1,2,3-Trichlorobenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichlorobenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
acetone	<0.0551	<0.0604	**0.0561**	<0.0636	<0.0585	<0.0588	<0.0570	NT	<0.0514	<0.0891	NT	<0.00902	<0.106	<0.0468	<0.103	<0.0529	<0.0540	<0.0502	<0.0557
acetonitrile	<0.0441	<0.0483	<0.0418	<0.0509	<0.0468	<0.0471	<0.0456	NT	<0.0411	<0.0713	NT	<0.0722	<0.0846	<0.0374	<0.0822	<0.0424	<0.0432	<0.0401	<0.0446
acrolein	<0.0220	<0.0242	<0.0209	<0.0254	<0.0234	<0.0235	<0.0228	NT	<0.0206	<0.0356	NT	<0.0361	<0.0423	<0.0187	<0.0411	<0.0212	<0.0216	<0.0201	<0.0223
acrylonitrile	<0.0220	<0.0242	<0.0209	<0.0254	<0.0234	<0.0235	<0.0228	NT	<0.0206	<0.0356	NT	<0.0361	<0.0423	<0.0187	<0.0411	<0.0212	<0.0216	<0.0201	<0.0223
allyl chloride	<0.0110	<0.0121	<0.0105	<0.0127	<0.0117	<0.0188	<0.0114	NT	<0.0103	<0.0178	NT	<0.0180	<0.0211	<0.00936	<0.0205	<0.0106	<0.0108	<0.0100	<0.0111
benzene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
bromobenzene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
bromochloromethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
bromodichloromethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
bromoform	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
bromomethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
carbon disulfide	<0.0220	<0.0242	<0.0209	<0.0254	<0.0234	<0.0235	<0.0228	NT	<0.0206	<0.0356	NT	<0.0361	<0.0423	<0.0187	<0.0411	<0.0212	<0.0216	<0.0201	<0.0223
carbon tetrachloride	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
chlorobenzene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY ENVIRONMENTAL, LLC

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	B-1: 2-4'	B-1: 10-12'	B-2: 4-6'	B-2: 12-14'	B-3: 0-2'	B-3: 8-10'	B-4A: 0-2'	B-4A:4-6'	B-4A: 12-14'	B-5: 6-8'	B-5: 20-21'	B-5: 24-25'	B-6: 8-10'	B-6: 16-18'	B-8: 0-2'	B-9: 4-5'	B-10: 4-6'	B-10: 28-30'	B-11: 4-6'
Volatile Organic Compounds																			
chloroethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
chloroform	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
chloromethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
cis-1,2-dichloroethene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
cis-1,3-dichloropropene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
dibromochloromethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
dibromomethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
dichlorodifluoromethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
ethylbenzene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
Ethyl methacrylate	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
idomethane	<0.0110	<0.0121	<0.0105	<0.0127	<0.0117	<0.0188	<0.0114	NT	<0.0103	<0.0178	NT	<0.0180	<0.0211	<0.00936	<0.0205	<0.0106	<0.0108	<0.0100	<0.0111
Isopropylbenzene (Cumene)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
methylene chloride	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	**0.0103**	<0.00529	<0.00540	<0.00502	<0.00557
MTBE	<0.0110	<0.0121	<0.0105	<0.0127	<0.0117	<0.0188	<0.0114	NT	<0.0103	<0.0178	NT	<0.0180	<0.0211	<0.00936	<0.0205	<0.0106	<0.0108	<0.0100	<0.0111
m,p-Xylene	<0.0110	<0.0121	<0.0105	<0.0127	<0.0117	<0.0188	<0.0114	NT	<0.0103	<0.0178	NT	<0.0180	<0.0211	<0.00936	<0.0205	<0.0106	<0.0108	<0.0100	<0.0111
n-Butylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Hexane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
n-Propylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
o-Xylene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
p-Isopropyltoluene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Xylenes	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Styrene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
tert-Butylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
Toluene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
trans-1,2-dichloroethene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
trans-1,3-dichloropropene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
trans-1,4-Dichloro-2-butene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
trichloroethene	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
trichlorofluoromethane	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
vinyl chloride	<0.00551	<0.00604	<0.00523	<0.00636	<0.00585	<0.00588	<0.00570	NT	<0.00514	<0.00891	NT	<0.00902	<0.0106	<0.00468	<0.0103	<0.00529	<0.00540	<0.00502	<0.00557
vinyl acetate	<0.0110	<0.0121	<0.0105	<0.0127	<0.0117	<0.0188	<0.0114	NT	<0.0103	<0.0178	NT	<0.0180	<0.0211	<0.00936	<0.0205	<0.0106	<0.0108	<0.0100	<0.0111

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY ENVIRONMENTAL, LLC

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	B-12: 16-18'	B-12: 24-26'	SB-13:12-14'	MW-1: 8-10'	MW-1: 10-12'	MW-1: 16-18'	MW-2: 0-2'	MW-2: 6-8'	MW-2: 10-12'	MW-2: 12-14'	MW-3: 10-12'	MW-3: 12-14'	MW-3: 28-30'	MW-3: 30-32'	MW-4: 4-6'	MW-4: 8-10'	MW-4: 12-14'	MW-6:2-4'	MW-6: 12-14'
Identified Area	A	A	A,B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Semi-Volatile Organic Compound																			
Acenapthene	NT	<5.51	<0.36	<0.118	NT	<0.116	**3.2**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Acenaphthylene	NT	<5.51	<0.36	<0.118	NT	<0.116	<1.12	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Anthracene	NT	<5.51	<0.36	<0.118	NT	<0.116	**5.79**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Benzo(a)anthracene	NT	<5.51	<0.36	<0.118	NT	<0.116	**7.61**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	**0.0071**
Benzo(b)fluoranthene	NT	<5.51	<0.36	<0.118	NT	<0.116	**5.26**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	**0.46**	**0.0080**
Benzo(k)fluoranthene	NT	<5.51	<0.36	<0.118	NT	<0.116	**5.62**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	**0.0078**
Benzo(g,h,i)perylene	NT	<5.51	<0.36	<0.118	NT	<0.116	**7.22**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	**0.0074**
Benzo(a)pyrene	NT	<5.51	<0.36	<0.118	NT	<0.116	**7.36**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Chrysene	NT	<5.51	<0.36	<0.118	NT	<0.116	**7.61**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	**0.41**	**0.0083**
Dibenz(a,h)anthracene	NT	<5.51	<0.36	<0.118	NT	<0.116	<1.12	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	**0.0071**
Fluoranthene	NT	**11.1**	<0.36	<0.118	NT	<0.116	**19.3**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	**0.71**	**0.0070**
Fluorene	NT	<5.51	<0.36	<0.118	NT	<0.116	**2.11**	NT	**0.146**	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Indeno(1,2,3-cd)pyrene	NT	<5.51	<0.36	<0.118	NT	<0.116	**6.44**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	**0.0074**
Naphthalene	NT	<5.51	<0.36	<0.118	NT	<0.116	**1.64**	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
2-Methylnaphthalene	NT	<5.51	<0.36	<0.118	NT	<0.116	<1.12	NT	<0.11	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Phenanthrene	NT	**8.16**	<0.36	<0.118	NT	<0.116	**18.9**	NT	**0.213**	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	<0.38	<0.0057
Pyrene	NT	**9.15**	<0.36	<0.118	NT	<0.116	**16.8**	NT	**0.173**	NT	<0.119	NT	<0.105	NT	<0.112	NT	<0.105	**0.62**	**0.0065**
Total Petroleum Hydrocarbons																			
TPH C6-C12	<5.63	NT	<10.9	<5.93	NT	<5.78	<5.57	NT	<5.23	NT	<6.05	NT	<5.18	NT	<5.52	<5.23	NT	<11.6	NT
TPH C10-C20	NT	**34**	<10.9	<11.8	NT	<11.5	<11.2	NT	<11	NT	<12	NT	<10.4	NT	<11.2	NT	<10.7	**25.9**	NT
TPH C20-C34	NT	581	<1.1	<588	NT	<574	<561	NT	<550	NT	<598	NT	<522	NT	<562	NT	<533	<1.2	NT
Metals																			
Arsenic	NT	**8.9**	**9.0**	NT	**13**	**8.89**	NT	**9.26**	NT	**12**	NT	**10.2**	NT	**4.51**	**7.22**	**6.61**	NT	**9.1**	NT
Barium	NT	**125**	**41.9**	NT	**73**	**63.7**	NT	**59.7**	NT	**74.7**	NT	**55.3**	NT	**26.6**	**16.1**	**17.2**	NT	**167**	NT
Cadmium	NT	**0.752**	<2.1	NT	**0.58**	**0.471**	NT	**0.478**	NT	**0.667**	NT	**0.6**	NT	**0.275**	**0.341**	**0.292**	NT	<2.1	NT
Chromium	NT	**21.9**	**7.8**	NT	**12.7**	**11.5**	NT	**11.2**	NT	**17.3**	NT	**14.6**	NT	**3.51**	**4.87**	**7.61**	NT	**15.8**	NT
Lead	NT	**449**	**6.5**	NT	**21.8**	**10.9**	NT	**39.6**	NT	**14.3**	NT	**16.7**	NT	**4.68**	**6.83**	**6.07**	NT	**66.8**	NT
Selenium	NT	<5.2	<2.1	NT	<5.61	<5.3	NT	<5.77	NT	<5.96	NT	<5.16	NT	<3.87	<4.59	<4.08	NT	<2.1	NT
Silver	NT	<1.04	<2.1	NT	<1.12	<1.06	NT	<1.15	NT	<1.19	NT	<1.03	NT	<0.774	<0.918	<0.817	NT	<2.1	NT
Mercury	NT	**0.165**	<0.20	NT	<0.117	<0.113	NT	**0.128**	NT	<0.113	NT	<0.123	NT	<0.111	<0.116	<0.101	NT	**1.2**	NT
Polychlorinated Biphenyls																			
Total PCBs	NT	**0.0501**	NT	NT	<0.0237	<0.0233	NT	<0.0232	NT	<0.0234	<0.0242	NT	NT	<0.0205	<0.0225	<0.0214	NT	NT	NT

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY
ENVIRONMENTAL, LLC

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	B-12: 16-18'	B-12: 24-26'	SB-13:12-14'	MW-1: 8-10'	MW-1: 10-12'	MW-1: 16-18'	MW-2: 0-2'	MW-2: 6-8'	MW-2: 10-12'	MW-2: 12-14'	MW-3: 10-12'	MW-3: 12-14'	MW-3: 28-30'	MW-3: 30-32'	MW-4: 4-6'	MW-4: 8-10'	MW-4: 12-14'	MW-6:2-4'	MW-6: 12-14'
Volatile Organic Compounds																			
1,1,1,2-tetrachloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,1,1-trichloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,1,2,2-tetrachloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,1,2-trichloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,1-dichloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,1-dichloroethene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,1-dichloropropene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,2-dibromomethane	<0.00790	NT	NT	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	NT
1,2-dichloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,2-dichloropropane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
1,3-dichloropropane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
2,2-dichloropropane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
2-butanone	<0.0316	NT	<0.027	<0.0202	NT	<0.0395	<0.0202	NT	<0.0230	NT	<0.0432	NT	<0.0212	NT	<0.0401	<0.0188	NT	NT	<0.029
2-chlorotoluene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
2-hexanone	<0.0316	NT	<0.11	<0.0202	NT	<0.0395	<0.0202	NT	<0.0230	NT	<0.0432	NT	<0.0212	NT	<0.0401	<0.0188	NT	NT	<0.11
4-chlorotoluene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
4-methyl-2-pentanone	<0.0316	NT	<0.027	<0.0202	NT	<0.0395	<0.0202	NT	<0.0230	NT	<0.0432	NT	<0.0212	NT	<0.0401	<0.0188	NT	NT	<0.029
1,2,3-Trichlorobenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
1,2,4-Trichlorobenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
1,2,4-Trimethylbenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
1,2-Dichlorobenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
1,3,5-Trimethylbenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
1,3-Dichlorobenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
1,4-Dichlorobenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
acetone	<0.0790	NT	<0.11	<0.0505	NT	<0.0986	<0.0506	NT	<0.0575	NT	<0.108	NT	<0.00529	NT	<0.100	<0.0469	NT	NT	<0.11
acetonitrile	<0.0632	NT	NT	<0.0404	NT	<0.0789	<0.0405	NT	<0.0460	NT	<0.0865	NT	<0.0423	NT	<0.0801	<0.0375	NT	NT	NT
acrolein	<0.0316	NT	<0.11	<0.0202	NT	<0.0395	<0.0202	NT	<0.0230	NT	<0.0432	NT	<0.0212	NT	<0.0401	<0.0188	NT	NT	<0.11
acrylonitrile	<0.0316	NT	NT	<0.0202	NT	<0.0395	<0.0202	NT	<0.0230	NT	<0.0432	NT	<0.0212	NT	<0.0401	<0.0188	NT	NT	NT
allyl chloride	<0.0158	NT	NT	<0.0101	NT	<0.0197	<0.0101	NT	<0.0115	NT	<0.0216	NT	<0.0106	NT	<0.0200	<0.00938	NT	NT	NT
benzene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
bromobenzene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
bromochloromethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
bromodichloromethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
bromoform	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
bromomethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
carbon disulfide	<0.0316	NT	<0.011	<0.0202	NT	<0.0395	<0.0202	NT	<0.0230	NT	<0.0432	NT	<0.0212	NT	<0.0401	<0.0188	NT	NT	<0.011
carbon tetrachloride	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
chlorobenzene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY ENVIRONMENTAL, LLC

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	B-12: 16-18'	B-12: 24-26'	SB-13:12-14'	MW-1: 8-10'	MW-1: 10-12'	MW-1: 16-18'	MW-2: 0-2'	MW-2: 6-8'	MW-2: 10-12'	MW-2: 12-14'	MW-3: 10-12'	MW-3: 12-14'	MW-3: 28-30'	MW-3: 30-32'	MW-4: 4-6'	MW-4: 8-10'	MW-4: 12-14'	MW-6:2-4'	MW-6: 12-14'
Volatile Organic Compounds																			
chloroethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
chloroform	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
chloromethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
cis-1,2-dichloroethene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
cis-1,3-dichloropropene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
dibromochloromethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
dibromomethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
dichlorodifluoromethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
ethylbenzene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
Ethyl methacrylate	NT	NT	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.11
idomethane	<0.0158	NT	<0.11	<0.0101	NT	<0.0197	<0.0101	NT	<0.0115	NT	<0.0216	NT	<0.0106	NT	<0.0200	<0.00938	NT	NT	<0.11
Isopropylbenzene (Cumene)	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
methylene chloride	**0.00793**	NT	<0.022	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.023
MTBE	<0.0158	NT	<0.0054	<0.0101	NT	<0.0197	<0.0101	NT	<0.0115	NT	<0.0216	NT	<0.0106	NT	<0.0200	<0.00938	NT	NT	<0.0057
m,p-Xylene	<0.0158	NT	NT	<0.0101	NT	<0.0197	<0.0101	NT	<0.0115	NT	<0.0216	NT	<0.0106	NT	<0.0200	<0.00938	NT	NT	NT
n-Butylbenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
n-Hexane	<0.00790	NT	NT	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	NT
n-Propylbenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
o-Xylene	<0.00790	NT	NT	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	NT
p-Isopropyltoluene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
Total Xylenes	NT	NT	<0.011	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.011
sec-Butylbenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
Styrene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
tert-Butylbenzene	NT	NT	<0.0054	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.0057
Tetrachloroethene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
Toluene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
trans-1,2-dichloroethene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
trans-1,3-dichloropropene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
trans-1,4-Dichloro-2-butene	NT	NT	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.11
trichloroethene	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
trichlorofluoromethane	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
vinyl chloride	<0.00790	NT	<0.0054	<0.00505	NT	<0.00986	<0.00506	NT	<0.00575	NT	<0.0108	NT	<0.00529	NT	<0.0100	<0.00469	NT	NT	<0.0057
vinyl acetate	<0.0158	NT	<0.11	<0.0101	NT	<0.0197	<0.0101	NT	<0.0115	NT	<0.0216	NT	<0.0106	NT	<0.0200	<0.00938	NT	NT	<0.11

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	MW-7:2-4'	MW-7:2-4 DUP	MW-7:18-20'	TP-1: 2'	TP-1: 8'	TP-1: 15'	TP-2: 2'	TP-2: 8'	TP-2: 15'	TP-3: 2'	TP-3: 8'	TP-3: 15'
Identified Area	A,B	A,B	A,B	A	A	A	A	A	A	A	A	A
Semi-Volatile Organic Compound												
Acenapthene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	<0.35	<0.35	<0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Petroleum Hydrocarbons												
TPH C6-C12	<10.6	<10.5	<10.7	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH C10-C20	<10.6	<10.5	<10.7	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH C20-C34	<1.1	<1.1	<1.1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Metals												
Arsenic	**3.2**	**4.6**	**8**	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	**12.1**	**22.5**	**23.3**	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	<1.8	<1.9	<1.9	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	**5.4**	**6.2**	**5.1**	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	**7.3**	**5.2**	**6.1**	**1030**	**414**	**282**	**317**	**153**	**924**	**2360**	**38.9**	**33.6**
Selenium	<1.8	<1.9	<1.9	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	<1.8	<1.9	<1.9	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	<0.21	<0.18	<0.22	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls												
Total PCBs	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY
ENVIRONMENTAL, LLC

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	MW-7:2-4'	MW-7:2-4 DUP	MW-7:18-20'	TP-1: 2'	TP-1: 8'	TP-1: 15'	TP-2: 2'	TP-2: 8'	TP-2: 15'	TP-3: 2'	TP-3: 8'	TP-3: 15'
Volatile Organic Compounds												
1,1,1,2-tetrachloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-trichloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2,2-tetrachloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2-trichloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-dichloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-dichloroethene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-dichloropropene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-dibromomethane	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-dichloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-dichloropropane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3-dichloropropane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
2,2-dichloropropane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-butanone	<0.026	<0.026	<0.027	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-chlorotoluene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-hexanone	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
4-chlorotoluene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
4-methyl-2-pentanone	<0.026	<0.026	<0.027	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichlorobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichlorobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
acetone	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
acetonitrile	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
acrolein	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
acrylonitrile	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
allyl chloride	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
benzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
bromobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
bromochloromethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
bromodichloromethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
bromoform	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
bromomethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
carbon disulfide	<0.011	<0.011	<0.011	NT	NT	NT	NT	NT	NT	NT	NT	NT
carbon tetrachloride	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
chlorobenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

Table H1
Soil Analytical Results
Former Hudepohl Brewery

Parameter	MW-7:2-4'	MW-7:2-4 DUP	MW-7:18-20'	TP-1: 2'	TP-1: 8'	TP-1: 15'	TP-2: 2'	TP-2: 8'	TP-2: 15'	TP-3: 2'	TP-3: 8'	TP-3: 15'
Volatile Organic Compounds												
chloroethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
chloroform	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
chloromethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-dichloroethene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,3-dichloropropene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
dibromochloromethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
dibromomethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
dichlorodifluoromethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
ethylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethyl methacrylate	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
idomethane	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene (Cumene)	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
methylene chloride	<0.021	<0.021	<0.021	NT	NT	NT	NT	NT	NT	NT	NT	NT
MTBE	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
m,p-Xylene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Hexane	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
o-Xylene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
p-Isopropyltoluene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Xylenes	<0.011	<0.011	<0.011	NT	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
Styrene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
Toluene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,2-dichloroethene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,3-dichloropropene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,4-Dichloro-2-butene	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
trichloroethene	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
trichlorofluoromethane	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
vinyl chloride	<0.0053	<0.0053	<0.0053	NT	NT	NT	NT	NT	NT	NT	NT	NT
vinyl acetate	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT

All Detections listed in mg/kg (parts per million)
Detections listed in **bold.** Non-detects listed as less than reporting limit. NT = Not Tested

PANDEY
ENVIRONMENTAL, LLC

Table H2
Former Hudepohl Brewery
Groundwater Analytical Results

Parameter	MW-1 : 07/12/10	MW-1 : 10/05/10	MW-2 : 07/12/10	MW-2 : 10/05/10	MW-2 : 02/22/13	MW-3 : 07/12/10	MW-3 : 10/05/10	MW-3 : 02/21/13	MW-4 : 07/12/10	MW-4 : 10/05/10	MW-4 : 02/22/13	MW-5 : 10/05/10	MW-5 : 02/22/13	MW-6 : 02/22/13	MW-7 : 02/22/13	MW-7 : 02/22/13 Duplicate
Trichloroethene	**40.6**	**35**	<5	<5	<5	**19.7**	**75.4**	**22**	<5	<5	<5	**12.4**	**7.1**	<5	**6.6**	**5.8**
All other VOCS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All SVOCs	ND	NT	ND	NT	NT	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

All detections listed in µg/L (parts per billion)
ND = No Detections
NT = Not Tested

Table H3
Former Hudepohl Brewery
Soil Gas Analytical Results

Parameter	SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	AA-1 (Ambient)
1,1-Dichloroethene	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
cis-1,2-Dichloroethene	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
trans-1,2-Dichloroethene	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Tetrachloroethene	<1.2	**1.3**	<1.2	<1.2	<1.2	<1.2	<1.2
Trichloroethene	**2.3**	**1.4**	<0.96	<0.96	**9.7**	**2.8**	**1.1**
Vinyl chloride	<0.44	<0.45	<0.45	<0.45	<0.44	<0.44	<0.45

All detections listed in $\mu g/m^3$
Non Detects listed as less than reporting limit

Appendix I

Soil Direct Contact Pathway

I1 – Maximum Soil Concentrations – All Depths

I2 – Carcinogenic Risk Ratios – All Depths

I3 – Non-Carcinogenic Risk Ratios – All Depths

Table I1

Pre-Remedial Maximum Concentrations in Soil - All Depths

Parameter	Result (mg/kg)	Sample
Acenaphthene	3.2	MW-2: 0-2': 0-2
Acetone	0.0561	B-2: 4-6': 4-6
Anthracene	13.7	MW-2: 0-2': 0-2
Arsenic	23.2	SB-13:12-14': 12-14
Barium	1310	SB-13:12-14': 12-14
Benzo(a)anthracene	25.7	MW-6:12-14': 12-14
Benzo(a)pyrene	24.6	MW-2: 0-2': 0-2
Benzo(b)fluoranthene	16	MW-6:2-4': 2-4
Benzo(g,h,i)perylene	17.4	MW-6:12-14': 12-14
Benzo(k)fluoranthene	19	MW-6:12-14': 12-14
Cadmium	4.38	MW-4: 8-10': 8-10
Chromium	30.5	SB-13:12-14': 12-14
Chrysene	25.7	MW-6:2-4': 2-4
Dibenz(a,h)anthracene	0.293	MW-6:12-14': 12-14
Fluoranthene	60	MW-6:2-4': 2-4
Fluorene	5.83	MW-2: 10-12': 10-12
Indeno(1,2,3-cd)pyrene	15.4	MW-6:12-14': 12-14
Lead	5800	TP-3: 8': 8-8
Mercury	4.44	MW-6:2-4': 2-4
Methylene chloride	0.0103	B-8: 0-2': 0-2
Naphthalene	1.64	MW-2: 0-2': 0-2
Phenanthrene	42.4	MW-2: 10-12': 10-12
Total PCBs	0.376	B-12: 24-26': 24-26
Pyrene	43.2	MW-6:2-4': 2-4
TPH (C10-C20)	844	B-2:12-14': 12-14
TPH (C20-C34)	7600	MW-6:2-4': 2-4

Samples were non-detect for all other compounds.

Table I2: Carcinogenic Risk Ratios - Commercial Land Use Scenario (All Depths)

Former Hudepohl Brewery - Cincinnati, Ohio

PANDEY ENVIRONMENTAL, LLC

Parameter	Max Concentration (ppm)	Single Chemical Carcinogen Standard (ppm)	Standard (ppm)[a]	Risk Ratio[b]
Arsenic	23.2	82	82	0.28293
Benzo(a)anthracene	25.7	76	76	0.33816
Benzo(a)pyrene	24.6	7.7	7.7	3.19481
Benzo(b)fluoranthene	16	77	77	0.20779
Benzo(k)fluoranthene	19	770	770	0.02468
Cadmium	4.38	52000	2300	0.00008
Chromium	30.5	7900	7900	0.00386
Chrysene	25.7	7600	7600	0.00338
Dibenz(a,h)anthracene	0.293	7.7	7.7	0.03805
Indeno(1,2,3-cd)pyrene	15.4	77	77	0.20000
Methylene chloride	0.0103	570	570	0.00002
Naphthalene	1.64	150	150	0.01093
Polychlorinated Biphenyls	0.376	26	18	0.01446
		Total of Risk Ratios:		**4.32**
		Incremental Risk:[c]		**4.32E-05**

[a] Generic Direct Contact Standard is lower of the noncarcinogen, carcinogen, and saturation concentrations

[b] Multiple chemical adjustment was conducted per OAC 3745-300-08 (Effective 03/01/2009)

[c] Incremental risk calculated by multiplying ratio by associated risk goals (1E-5 for Carcinogens)

Table I3: Non-Carcinogenic Risk Ratios - Commercial Land Use Scenario (All Depths)

PANDEY ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Max Concentration (ppm)	Single Chemical Non-Carcinogen Standard (ppm)	Standard (ppm)[a]	Risk Ratio[b]
Acenaphthene	3.2	56000	56000	0.00006
Acetone	0.0561	850000	100000	0.00000
Anthracene	13.7	280000	280000	0.00005
Arsenic	23.2	610	82	0.03803
Barium	1310	370000	370000	0.00354
Benzo(g,h,i)perylene	17.4	28000	28000	0.00062
Cadmium	4.38	2300	2300	0.00190
Chromium	30.5	8400	7900	0.00363
Chromium	30.5	4400000	1000000	0.00001
Fluoranthene	60	37000	37000	0.00162
Fluorene	5.83	37000	37000	0.00016
Mercury	4.44	290	290	0.01531
Methylene chloride	0.0103	4900	570	0.00000
Naphthalene	1.64	280	150	0.00586
Phenanthrene	42.4	280000	280000	0.00015

Table I3: Non-Carcinogenic Risk Ratios - Commercial Land Use Scenario (All Depths)

PANDEY ENVIRONMENTAL, LLC

Former Hudepohl Brewery - Cincinnati, Ohio

Parameter	Max Concentration (ppm)	Single Chemical Non-Carcinogen Standard (ppm)	Standard (ppm)[a]	Risk Ratio[b]
Polychlorinated Biphenyls	0.376	18	18	0.02089
Pyrene	43.2	28000	28000	0.00154

Total of Risk Ratios: **0.09**

Incremental Risk:[c] **9.34E-02**

[a] Generic Direct Contact Standard is lower of the noncarcinogen, carcinogen, and saturation concentrations

[b] Multiple chemical adjustment was conducted per OAC 3745-300-08 (Effective 03/01/2009)

[c] Incremental risk calculated by multiplying ratio by associated risk goals (Hazard Quotient of 1 for Non-Carcinogens)

Appendix J

Vapor Intrusion Pathway

J1 – Concentrations Used for Vapor Intrusion Modeling

J2 – Vapor Intrusion Input Parameters

J3 – Incremental Risk from the Indoor Air Pathway

J4 – J/E Modeling Spreadsheets

Table J1A
Concentrations Used for Vapor Intrusion Modeling

Compound	Media	Detection	Units	Location
Acenaphthene	Bulk Soil	3,200	µg/kg	MW-2: 0-2'
Acetone	Bulk Soil	56.1	µg/kg	SB-2: 4-6'
Benzo(b)fluoranthene	Bulk Soil	16,000	µg/kg	SB-11: 4-6'
Chrysene	Bulk Soil	25,700	µg/kg	SB-11: 4-6'
Fluorene	Bulk Soil	58,300	µg/kg	SB-11: 4-6'
Naphthalene	Bulk Soil	16,400	µg/kg	MW-2: 0-2'
Pyrene	Bulk Soil	43,200	µg/kg	SB-11: 4-6'
Tetrachloroethene	Soil Gas	1.3	$\mu g/m^3$	SG-2
Trichloroethene	Soil Gas	9.7	$\mu g/m^3$	SG-5

Table J2
Model Input Parameters
Former Hudepohl Brewery

Johnson & Ettinger Model			
Parameter	Unit	Value / Range	Source / Reference
Depth Below Grade to Bottom or Enclosed Space / Floor	cm	15 Slab / 200 Basement	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Average Soil Temperature	°c	11	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Soil Type	N/A	S	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Averaging Time for Carcinogens	years	70	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Averaging Time for Non-Carcinogens	years	25	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Exposure Duration	years	25	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Exposure Frequency	days/year	250	Ohio EPA May 2010 Vapor Intrusion Guidance Document for Remedial Response and Voluntary Action Programs
Chemical Parameters	varies	varies	Data Obtained from Following Sources in Order of Priority: 1) US EPA IRIS 2) Ohio VAP CIDARS 3) J&E Spreadsheet Defaults Exact values used can be found on following page.

Table J2
Johnson Ettinger Input Parameters
Former Hudepohl Brewery

Chemical Properties Lookup Table

CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)	URF extrapolated (X)	RfC extrapolated (X)	Reference
56235	Carbon Tetrachloride	1.52E+02	7.80E-02	8.80E-06	1.16E+03	1.24E+00	3.04E-02	25	349.90	556.60	7,127	6.00E-06	2.00E-03	1.54E+02			IRIS
57749	Chlordane	5.13E+04	1.79E-02	4.37E-06	5.60E-02	1.99E-03	4.86E-05	25	624.24	885.73	14,000	1.00E-04	7.00E-04	4.10E+02			CIDARS
58899	Lindane	1.35E+03	2.75E-02	7.34E-06	7.30E+00	2.10E-04	5.14E-06	25	596.55	839.36	15,000	3.10E+02	1.05E-03	2.91E+02	X	X	J/E Defaults
60297	Ethyl Ether	7.30E+01	7.82E-02	8.61E-06	6.04E+04	5.03E-02	1.23E-03	25	307.50	466.74	6,338	0.00E+00	7.00E-01	7.41E+01		X	CIDARS
60571	Dieldrin	2.14E+04	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	4.60E-03	1.75E-04	3.81E+02		X	J/E Defaults
67641	Acetone	5.75E-01	1.24E-01	1.14E-05	1.00E+06	7.65E-04	1.87E-05	25	329.20	508.10	6,955	0.00E+00	3.09E+01	5.81E+01		X	CIDARS
67663	Chloroform	5.25E+01	1.04E-01	1.00E-05	7.71E+03	1.50E-01	3.67E-03	25	334.32	536.40	6,988	2.30E-05	1.00E-01	1.19E+02			IRIS
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	7.70E+00	1.59E-01	3.89E-03	20	458.00	695.00	9,510	4.00E-06	3.50E-03	2.37E+02		X	CIDARS
71432	Benzene	6.17E+01	8.80E-02	1.02E-05	1.79E+03	2.27E-01	5.55E-03	25	353.24	562.16	7,342	2.20E-06	3.00E-02	7.81E+01			IRIS
71556	Trichloroethane, 1,1,1 -	1.35E+02	7.80E-02	8.80E-06	1.29E+03	7.04E-01	1.72E-02	25	347.24	545.00	7,136	0.00E+00	5.00E+00	1.33E+02			IRIS 2012
72435	Methoxychlor	8.00E+04	1.84E-02	4.46E-06	4.00E-02	8.30E-06	2.03E-07	25	651.02	848.49	16,000	0.00E+00	1.75E-02	3.46E+02		X	CIDARS
72559	DDE	8.64E+04	2.38E-02	5.87E-06	6.50E-02	1.70E-03	4.16E-05	25	636.44	860.38	15,000	9.70E-05	0.00E+00	3.18E+02	X		CIDARS
74839	Methyl bromide	1.05E+01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.00E+00	5.00E-03	9.49E+01			J/E Defaults
74873	Methyl chloride (chloromethane)	2.12E+00	1.26E-01	6.50E-06	5.33E+03	3.61E-01	8.80E-03	25	249.00	416.25	5,115	1.00E-06	9.00E-02	5.05E+01			RFC = IRIS, URF = J/E
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.00E+00	3.00E-03	2.70E+01			J/E Defaults
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E+04	3.52E-02	8.59E-04	25	370.00	583.00	7,868	0.00E+00	3.50E-02	1.74E+02		X	J/E Defaults
75003	Chloroethane	2.40E+01	2.71E-01	1.15E-05	6.71E+03	4.54E-01	1.11E-02	25	285.30	460.40	5,879	0.00E+00	1.00E+01	6.45E+01	X		IRIS 2012
75014	Vinyl Chloride	1.86E+01	1.06E-01	1.23E-05	2.70E+03	1.14E+00	2.78E-02	25	259.25	432.00	5,250	8.80E-06	1.00E-01	6.25E+01			CIDARS
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-05	1.00E+06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.00E+00	6.00E-02	4.11E+01			J/E Defaults
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	3.23E-03	7.87E-05	25	293.10	466.00	6,157	2.20E-06	9.00E-03	4.41E+01			J/E Defaults
75092	Methylene Chloride	1.00E+01	1.01E-01	1.17E-05	1.30E+04	8.96E-02	2.19E-03	25	313.00	510.00	6,706	1.00E-08	6.00E-01	8.49E+01			IRIS
75150	Carbon Disulfide	4.57E+01	1.04E-01	1.00E-05	2.86E+03	5.89E-01	1.44E-02	25	319.00	552.00	6,391	0.00E+00	7.00E-01	7.61E+01			IRIS 2012
75218	Ethylene oxide	1.33E+00	1.04E-01	1.45E-05	3.04E+05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	1.00E-04	0.00E+00	4.41E+01			J/E Defaults
75252	Bromoform	8.71E+01	1.49E-02	1.03E-05	3.10E+03	2.41E-02	5.88E-04	25	422.35	696.00	9,479	1.10E-06	7.00E-02	2.53E+02		X	J/E Defaults
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E+03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	1.77E-05	7.00E-02	1.64E+02	X	X	J/E Defaults
75296	Chloropropane, 2-	9.14E+00	8.88E-02	1.01E-05	3.73E+03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.00E+00	1.02E-01	7.85E+01			J/E Defaults
75343	Dichloroethane, 1,1 -	5.34E+01	7.42E-02	1.05E-05	5.04E+03	2.30E-01	5.62E-03	25	330.55	523.00	6,895	1.60E-06	5.00E-01	9.90E+01			CIDARS
75354	Dichloroethene, 1,1 -	6.50E+01	9.00E-02	1.04E-05	2.42E+03	1.07E+00	2.61E-02	25	304.75	576.05	6,247	0.00E+00	2.00E-01	9.69E+01			CIDARS
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.00E+00	5.00E+01	8.65E+01			J/E Defaults
75694	Trichlorofluoromethane	9.70E+01	8.70E-02	9.70E-06	1.10E+03	3.97E+00	9.70E-02	25	296.70	471.00	5,999	0.00E+00	7.00E-01	1.37E+02			CIDARS
75718	Dichlorodifluoromethane	3.56E+02	6.65E-02	9.92E-06	2.80E+02	1.40E+01	3.43E-01	25	243.20	384.95	9,421	0.00E+00	2.00E-01	1.21E+02			CIDARS
76131	1,1,2-Trichloro-1,2,2-trifluoroethane	1.11E+04	7.80E-02	8.20E-06	1.70E+02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.00E+00	3.01E+01	1.87E+02			J/E Defaults
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	1.3E-03	1.8E-03	3.73E+02		X	J/E Defaults
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+00	2.69E-02	25	512.15	746.00	10,931	0.00E+00	2.00E-04	2.73E+02			J/E Defaults
78591	Isophorone	4.68E+01	6.23E-02	6.76E-06	1.20E+04	2.70E-04	6.60E-06	25	381.04	547.78	10,936	0.00E+00	2.00E+00	7.41E+01		X	CIDARS
78875	Dichloropropane, 1,2 -	4.70E+01	7.82E-02	8.73E-06	2.80E+03	1.15E-01	2.82E-03	25	369.52	572.00	7,590	1.00E+01	4.00E-03	1.13E+02	X		CIDARS
78933	Methyl Ethyl Ketone (MEK)	3.15E+01	8.08E-02	9.80E-06	3.53E+05	1.92E-03	4.70E-05	25	352.50	536.78	7,481	0.00E+00	5.00E+00	7.21E+01			IRIS 2012
79005	Trichloroethane, 1,1,2 -	7.50E+01	7.80E-02	8.80E-06	4.59E+03	3.37E-02	8.24E-04	25	386.15	602.00	8,322	1.60E-05	1.40E-02	1.33E+02		X	RfC = J/E, CIDARS
79016	Trichloroethene	9.43E+01	7.90E-02	9.10E-06	1.28E+03	4.21E-01	1.03E-02	25	360.36	544.20	7,505	4.10E-06	2.00E-03	1.31E+02	X		IRIS 2012
79209	Methyl acetate	3.26E+00	1.04E-01	1.00E-05	2.00E+03	4.84E-03	1.18E-04	25	329.80	506.70	7,260	0.00E+00	3.50E+00	7.41E+01		X	J/E Defaults
79345	1,1,2,2-Tetrachloroethane	7.90E+01	7.10E-02	7.90E-06	2.96E+03	1.50E-02	3.67E-04	25	419.60	661.15	8,996	5.80E-05	2.10E-01	1.68E+02		X	CIDARS
79469	2-Nitropropane	1.17E+01	9.23E-02	1.01E-05	1.70E+04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.69E-03	2.00E-02	8.91E+01			J/E Defaults
80626	Methylmethacrylate	6.98E+00	7.70E-02	8.60E-06	1.50E+04	1.38E-02	3.36E-04	25	373.50	567.00	8,975	0.00E+00	7.00E-01	1.00E+02			J/E Defaults
83329	Acenaphthene	4.90E+03	4.76E-02	7.69E-06	3.90E+00	7.53E-02	1.84E-03	25	550.54	803.15	12,155	0.00E+00	2.10E-01	1.54E+02		X	RfC = J/E, CIDARS
86737	Fluorene	7.71E+03	4.40E-02	7.88E-06	1.69E+02	3.93E-03	9.62E-05	25	570.44	870.00	12,666	0.00E+00	1.40E-01	1.66E+02		X	RfC = J/E, CIDARS
87683	Hexachloro- 1,3 - Butadiene	5.37E+04	5.61E-02	6.16E-06	3.20E+00	4.21E-01	1.03E-02	25	486.15	738.00	10,206	2.20E-05	7.00E-04	2.61E+02		X	CIDARS
88722	o-Nitrotoluene	3.24E+02	5.87E-02	8.67E-06	6.50E+02	5.11E-04	1.25E-05	25	495.00	720.00	12,239	0.00E+00	3.50E-02	1.37E+02		X	J/E Defaults
91203	Naphthalene	1.19E+03	5.90E-02	7.50E-06	3.10E+01	1.80E-02	4.40E-04	25	491.14	748.40	10,373	3.40E-05	3.00E-03	1.28E+02			IRIS 2012 / CIDARS URF

Table J2
Johnson Ettinger Input Parameters
Former Hudepohl Brewery

Chemical Properties Lookup Table

CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)	URF extrapolated (X)	RfC extrapolated (X)	Reference
91576	2-methylnaphthalene	6.45E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	5.18E-04	25	514.26	761.00	12,600	0.00E+00	5.00E+00	1.42E+02		X	CIDARS
92524	Biphenyl	4.38E+03	4.04E-02	8.15E-06	7.45E+00	1.23E-02	2.99E-04	25	529.10	789.00	10,890	0.00E+00	1.75E-01	1.54E+02		X	J/E Defaults
95476	o-Xylene	3.63E+02	8.70E-02	1.00E-05	1.78E+02	2.12E-01	5.18E-03	25	417.60	630.30	8,661	0.00E+00	1.00E-01	1.06E+02			J/E Defaults
95501	Dichlorobenzene, 1,2 - (o)	3.79E+02	6.90E-02	7.90E-06	1.56E+02	7.85E-02	1.92E-03	25	453.57	705.00	9,700	0.00E+00	2.00E-01	1.47E+02			CIDARS
95578	2-Chlorophenol	3.88E+02	5.01E-02	9.46E-06	2.20E+04	1.60E-02	3.90E-04	25	447.53	675.00	9,572	0.00E+00	1.75E-02	1.29E+02		X	J/E Defaults
95636	Trimethylbenzene, 1,2,4	7.20E+02	6.06E-02	7.92E-06	5.70E+01	2.52E-01	6.16E-03	25	442.30	649.17	9,369	0.00E+00	6.00E-03	1.20E+02			CIDARS
96184	Trichloropropane, 1,2,3 -	8.60E+01	7.10E-02	7.90E-06	1.75E+03	1.40E-02	3.43E-04	25	430.00	652.00	9,171	5.71E-04	4.90E-03	1.47E+02	X		J/E Defaults (CIDARS has no tox values)
96333	Methyl acrylate	4.53E+00	9.76E-02	1.02E-05	6.00E+04	7.68E-03	1.87E-04	25	353.70	536.00	7,749	0.00E+00	1.05E-01	8.61E+01		X	J/E Defaults
97632	Ethylmethacrylate	2.95E+01	6.53E-02	8.37E-06	3.67E+03	3.44E-02	8.40E-04	25	390.00	571.00	10,957	0.00E+00	3.15E-01	1.14E+02		X	J/E Defaults
98066	tert-Butylbenzene	7.71E+02	5.65E-02	8.02E-06	2.95E+01	4.87E-01	1.19E-02	25	442.10	1220.00	8,980	0.0E+00	1.4E-01	1.34E+02		X	J/E Defaults
98828	Isopropylbenzene (Cumene)	8.20E+02	6.50E-02	7.10E-06	5.00E+01	4.70E-01	1.15E-02	20	425.56	631.10	10,335	0.00E+00	4.00E-01	1.20E+02			CIDARS
98862	Acetophenone	1.00E+01	6.00E-02	8.73E-06	6.13E+03	4.25E-04	1.04E-05	25	475.00	709.50	11,732	0.00E+00	3.50E-01	1.20E+02		X	ılts (CIDARS has no tox values)
98953	Nitrobenzene	1.19E+02	7.60E-02	8.60E-06	1.80E+03	9.82E-04	2.40E-05	25	483.95	719.00	10,566	0.00E+00	2.00E-03	1.23E+02			CIDARS
100414	Ethylbenzene	2.04E+02	7.50E-02	7.80E-06	1.69E+02	3.22E-01	7.88E-03	25	409.34	617.20	8,501	0.00E+00	1.00E+00	1.06E+02			IRIS
100425	Styrene	9.12E+02	7.10E-02	8.00E-06	3.10E+02	1.12E-01	2.75E-03	25	418.31	636.00	8,737	0.00E+00	1.00E+00	1.04E+02			CIDARS
100447	Benzylchloride	6.14E+01	7.50E-02	7.80E-06	5.25E+02	1.70E-02	4.14E-04	25	452.00	685.00	8,773	4.86E-05	0.00E+00	1.27E+02	X		J/E Defaults
100527	Benzaldehyde	4.59E+01	7.21E-02	9.07E-06	3.30E+03	9.73E-04	2.37E-05	25	452.00	695.00	11,658	0.0E+00	3.5E-01	1.06E+02		X	J/E Defaults
103651	n-propyl benzene	7.25E+02	6.01E-02	7.83E-06	5.22E+01	4.29E-01	1.05E-02	25	432.20	630.00	9,123	0.00E+00	4.00E-01	1.20E+02		X	CIDARS
104518	n-butyl benzene	2.48E+03	5.70E-02	8.12E-06	1.18E+01	6.54E-01	1.60E-02	25	456.46	660.50	9,290	0.00E+00	5.00E+00	1.34E+02		X	CIDARS
106423	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	7.64E-03	25	411.52	616.20	8,525	0.00E+00	1.00E-01	1.06E+02			RfC = CIDARS
106467	Dichlorobenzene, 1,4 - (p)	6.16E+02	6.90E-02	7.90E-06	7.60E+01	9.86E-02	2.41E-03	25	447.21	684.75	9,271	1.10E-05	8.00E-01	1.47E+02			CIDARS
106934	Dibromoethane, 1,2- (ethylene dibr	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8,310	2.20E-04	2.00E-04	1.88E+02			J/E Defaults
106990	Butadiene, 1,3-	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5,370	3.00E-02	2.00E-03	5.41E+01			J/E Defaults
107028	Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6,731	0.00E+00	2.00E-05	5.61E+01			J/E Defaults
107062	Dichloroethane, 1,2 -	3.80E+01	1.04E-01	9.90E-06	8.60E+03	4.83E-02	1.18E-03	25	356.65	561.00	7,643	2.60E-05	2.43E+00	9.90E+01			CIDARS
107131	Acrylonitrile	3.30E+01	1.22E-01	1.34E-05	7.45E+04	5.64E-03	1.38E-04	25	350.30	519.00	7,786	6.80E-05	2.00E-03	5.31E+01			CIDARS
108054	Vinyl Acetate	5.25E+00	8.50E-02	9.20E-06	2.00E+04	2.09E-02	5.10E-04	20	345.65	519.13	7,800	0.00E+00	2.00E-01	8.61E+01			CIDARS
108101	Methyl Isobutyl Ketone (MIBK)	1.23E+02	7.50E-02	7.80E-06	1.90E+04	1.38E-04	5.64E-03	25	389.50	571.00	8,243	0.00E+00	3.00E+00	1.00E+02			IRIS 2012
108383	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8,523	0.0E+00	1.0E-01	1.06E+02			J/E Defaults
108678	Trimethylbenzene, 1,3,5	6.60E+02	6.02E-02	8.67E-06	4.82E+01	3.59E-01	8.77E-03	25	437.89	637.25	9,321	0.00E+00	6.00E-03	1.20E+02			CIDARS
108872	Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7,474	0.0E+00	3.0E+00	9.82E+01			J/E Defaults
108883	Toluene	1.40E+02	8.70E-02	8.60E-06	5.26E+02	2.72E-01	6.64E-03	25	383.78	591.79	7,930	0.00E+00	5.00E+00	9.21E+01			IRIS 2012
108907	Chlorobenzene	2.24E+02	7.30E-02	8.70E-06	5.02E+02	1.27E-01	3.11E-03	25	404.87	632.40	8,410	0.00E+00	5.00E-02	1.13E+02			CIDARS
109693	1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E+03	6.93E-01	1.69E-02	25	351.60	542.00	7,263	0.0E+00	1.4E+00	9.26E+01		X	J/E Defaults
110009	Furan	1.86E+01	1.04E-01	1.22E-05	1.00E+04	2.21E-01	5.39E-03	25	304.60	490.20	6,477	0.0E+00	3.5E-03	6.81E+01		X	J/E Defaults
110543	Hexane, n -	1.50E+02	2.00E-01	7.77E-06	1.24E+01	7.49E+01	1.83E+00	25	341.70	508.00	6,895	0.00E+00	7.00E-01	8.62E+01			IRIS 2012
111444	Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10,803	3.3E-04	0.0E+00	1.43E+02			J/E Defaults
115297	Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14,000	0.0E+00	2.1E-02	4.07E+02		X	J/E Defaults
118741	Hexachlorobenzene	8.00E+04	5.42E-02	5.91E-06	4.70E-03	2.37E-02	5.80E-04	25	582.55	825.00	14,447	4.60E+02	2.80E-03	2.85E+02		X	J/E Defaults
120821	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10,471	0.0E+00	4.0E-03	1.81E+02			J/E Defaults
123739	Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	7.01E+01	X		J/E Defaults
124481	Dibromochloromethane	8.40E+01	3.66E-02	1.05E-05	2.70E+03	3.20E-02	7.83E-04	20	416.14	678.20	5,900	2.40E-05	7.00E-02	2.08E+02	X	X	CIDARS, J/E URF RfC
126987	Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7,600	0.00E+00	7.00E-04	6.71E+01			J/E Defaults
126998	2-Chloro-1,3-butadiene (chloroprer	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8,075	0.00E+00	7.00E-03	8.85E+01			J/E Defaults
127184	Tetrachloroethene	2.65E+02	7.20E-02	8.20E-06	2.06E+02	7.24E-01	1.77E-02	25	394.40	620.20	8,288	3.00E-07	4.00E-02	1.66E+02			IRIS 2012
129000	Pyrene	6.80E+04	2.77E-02	7.24E-06	1.35E-01	4.91E-04	1.20E-05	25	667.95	936.00	14370	0.00E+00	1.05E-01	2.02E+02		X	CIDARS URF / JE RfC
132649	Dibenzofuran	3.39E+03	4.17E-02	7.45E-06	1.80E+00	3.54E-06	8.65E-08	25	560.00	824.00	66400	0.00E+00	1.40E-02	1.68E+02		X	CIDARS URF / JE RfC
135988	Sec-butyl benzene	7.20E+03	5.70E-02	8.12E-06	1.76E+01	7.36E-01	1.80E-02	25	446.50	679.00	88730	0.00E+00	5.00E+00	1.34E+02		X	CIDARS
141786	Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	7.36E-01	1.80E-02	25	350.26	523.30	7633.66	0.00E+00	3.15E+00	8.81E+01		X	J/E Defaults

Table J2
Johnson Ettinger Input Parameters
Former Hudepohl Brewery

Chemical Properties Lookup Table

CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)	URF extrapolated (X)	RfC extrapolated (X)	Reference
156592	cis-1,2-Dichloroethylene	3.55E+01	8.86E-02	1.13E-05	6.41E+03	1.67E-01	4.08E-03	25	333.65	544.00	7192	0.00E+00	3.50E-02	9.69E+01		X	CIDARS URF / JE RfC
156605	Dichloroethene, trans - 1,2 -	3.80E+01	7.03E-02	1.19E-05	4.52E+03	3.84E-01	9.38E-03	25	320.85	516.50	6717	0.00E+00	6.00E-02	9.69E+01		X	CIDARS
205992	Benzo(b)fluoranthene	1.23E+06	2.23E-02	5.56E-06	1.50E-03	2.05E-05	5.00E-07	25	715.90	969.27	17000	8.80E-05	0.00E+00	2.52E+02	X		CIDARS
218019	Chrysene	3.98E+05	2.44E-02	6.21E-06	1.89E-02	2.14E-04	5.23E-06	25	714.15	979.00	16455	8.80E-07	0.00E+00	2.28E+02	X		CIDARS
309002	Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	2.14E-04	5.23E-06	25	603.01	839.37	15000	4.90E-03	1.05E-04	3.65E+02		X	J/E Defaults
319846	alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	6.95E-03	1.70E-04	25	596.55	839.36	15000	1.80E-03	0.00E+00	2.91E+02			J/E Defaults
541731	Dichlorobenzene, 1,3-	1.98E+03	6.92E-02	7.86E-06	1.34E+02	4.34E-04	1.06E-05	25	446.00	684.00	9230.18	0.00E+00	1.05E-01	1.47E+02		X	J/E Defaults
542756	Dichloropropene, 1,3 -	2.71E+01	6.26E-02	1.00E-05	2.80E+03	1.45E-01	3.55E-03	20	381.15	587.38	7900	4.00E-06	2.00E-02	1.11E+02			CIDARS
591786	Methyl Butyl Ketone (MBK)	1.34E+02	7.20E-02	8.44E-06	1.72E+04	3.81E-03	9.32E-05	20	401.00	587.00	10,301	0.00E+00	3.00E-02	1.00E+02			IRIS 2012
630206	Tetrachloroethane , 1,1,1,2 -	9.66E+01	7.10E-02	7.90E-06	1.07E+03	1.02E-01	2.50E-03	25	403.50	624.00	9768.282525	7.40E-06	1.05E-01	1.68E+02		X	CIDARS URF / JE RfC
1634044	Methyl tert- Butyl Ether (MTBE)	6.00E+00	8.59E-02	1.01E-05	4.80E+04	2.40E-02	5.87E-04	25	328.30	497.10	6677.66	2.60E-07	3.00E+00	8.82E+01			CIDARS
7439976	Mercury	5.20E+01	7.14E-02	3.01E-05	6.00E-02	2.40E-02	5.87E-04	25	629.88	1750.00	14127	0.00E+00	3.00E-04	2.01E+02			J/E Defaults

Soil Properties Lookup Table

SCS Soil Type	K_s (cm/h)	α_1 (1/cm)	N (unitless)	M (unitless)	n (cm^3/cm^3)	θ_i(cm^3/cm^3)	Mean Grain Diameter (cm)	Bulk Density (g/cm^3)	θ_w (cm^3/cm^3)	SCS Soil Name
C	0.61	0.01496	1.253	0.2019	0.459	0.098	0.0092	1.43	0.215	Clay
CL	0.34	0.01581	1.416	0.2938	0.442	0.079	0.016	1.48	0.168	Clay Loam
L	0.50	0.01112	1.472	0.3207	0.399	0.061	0.020	1.59	0.148	Loam
LS	4.38	0.03475	1.746	0.4273	0.390	0.049	0.040	1.62	0.076	Loamy Sand
S	26.78	0.03524	3.177	0.6852	0.375	0.053	0.044	1.66	0.054	Sand
SC	0.47	0.03342	1.208	0.1722	0.385	0.117	0.025	1.63	0.197	Sandy Clay
SCL	0.55	0.02109	1.330	0.2481	0.384	0.063	0.029	1.63	0.146	Sandy Clay Loam
SI	1.82	0.00658	1.679	0.4044	0.489	0.050	0.0046	1.35	0.167	Silt
SIC	0.40	0.01622	1.321	0.2430	0.481	0.111	0.0039	1.38	0.216	Silty Clay
SICL	0.46	0.00839	1.521	0.3425	0.482	0.090	0.0056	1.37	0.198	Silty Clay Loam
SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0.011	1.49	0.180	Silt Loam
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0.030	1.62	0.103	Sandy Loam

TABLE J3: Incremental Risk Ratios from BUSTR Compounds

Former Hudepohl Brewery - Cincinnati, Ohio

Soil

Carcinogenic Risk

Chemical of Concern	Soil to Indoor Air Action Level (ppm)	Max Soil Concentration (ppm)	Soil to Indoor Air Risk Ratio	Incremental Risk (soil)
Benzo(b)fluoranthene	165,000	16	9.69697E-05	9.70E-10
Chrysene	1,000,000	25.7	0.0000257	2.57E-10
Naphthalene	54.00	16.4	0.303703704	3.04E-06

Non-Carcinogenic Risk

Chemical of Concern	Soil to Indoor Air Action Level (ppm)	Max Soil Concentration (ppm)	Soil to Indoor Air Risk Ratio	Incremental Risk (soil)
Naphthalene	54.00	16.4	0.303703704	3.04E-01

Table J4
Incremental Risk from Vapor Intrusion Pathway
Summary of Johnson & Ettinger Modeling
Former Hudepohl Brewery - Cincinnati, Ohio

		Carcinogenic Risk			Non-Carcinogenic Risk			
CAS	**Chemical**	**Slab[1]**	**Basement[2]**	**Maximum**	**Slab[1]**	**Basement[2]**	**Maximum**	**Based On[3]**
83329	Acenaphthene	N/A	N/A	0.0E+00	1.1E-02	9.8E-03	1.1E-02	Soil
67641	Acetone	N/A	N/A	0.0E+00	9.7E-04	8.0E-03	8.0E-03	Soil
205992	Benzo(b)fluoranthene	9.7E-10	9.7E-10	9.7E-10	N/A	N/A	0.0E+00	BUSTR MCA SL
218019	Chrysene	2.6E-10	2.6E-10	2.6E-10	N/A	N/A	0.0E+00	BUSTR MCA SL
86737	Fluorene	N/A	N/A	0.0E+00	1.3E-03	8.8E-04	1.3E-03	Soil
91203	Naphthalene	3.0E-06	3.0E-06	3.0E-06	3.0E-01	3.0E-01	3.0E-01	BUSTR MCA SL
129000	Pyrene	N/A	N/A	0.0E+00	7.8E-05	5.4E-05	7.8E-05	Soil
127184	Tetrachloroethene	3.9E-10	2.7E-10	3.9E-10	1.0E-04	7.2E-05	1.0E-04	Soil Gas
79016	Trichloroethene	4.5E-08	3.1E-08	4.5E-08	1.6E-02	1.1E-02	1.6E-02	Soil Gas
TOTAL INCREMENTAL RISK --->		**3.1E-06**	**3.1E-06**	**3.1E-06**	**3.3E-01**	**3.34E-01**	**3.40E-01**	

[1] Slab scenario assumes depth below grade to bottom of enclosed space floor of 15 cm

[2] Basement scenario assumes depth below grade to bottom of enclosed space floor of 200 cm

[3] When measured soil gas concentrations were available in an area of soil or groundwater contamination, these concentrations were used for modeling.

SL-ADV
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)		Chemical
83329	3.20E+03		Acenaphthene

MORE ↓

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	15	15	61	15			S		

MORE ↓

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
Lookup Soil Parameters					Lookup Soil Parameters					Lookup Soil Parameters				
S	1.66	0.375	0.054	0.003										

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
4.76E-02	7.69E-06	1.84E-03	25	12,155	550.54	803.15	4.90E+03	3.90E+00	0.0E+00	2.1E-01	1.5E+02

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	3.20E+03	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.06E+06	3.77E-04	15	16,110	4.82E-04	2.07E-02	1.76E-04	7.70E-03	0.00E+00	0.00E+00	7.70E-03	1	15

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
1.47E+01	4.49E+03	0.10	9.95E+01	7.70E-03	4.00E+02	2.72E+140	NA	NA	8.30E+01	6.50E-06	7.50E+08	YES

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	3.23E+00	NA	3.23E+00	NA	2.1E-01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	5.75E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.1E-02

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

DATA ENTRY SHEET

SL-ADV 3.1; 02/04

Reset

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
67641	4.32E+04	Acetone

Lookup Lookup Lookup

MORE

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	15	15	61	15			S		

MORE

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
S	1.66	0.375	0.054	0.003										

MORE

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
1.24E-01	1.14E-05	1.87E-05	25	6,955	329.20	508.10	5.75E-01	1.00E+06	0.0E+00	3.1E+01	5.8E+01

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	4.32E+04	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.06E+06	3.77E-04	15	7,547	9.98E-06	4.28E-04	1.76E-04	2.01E-02	0.00E+00	0.00E+00	2.01E-02	1	15

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
1.73E-03	5.39E+05	0.10	9.95E+01	2.01E-02	4.00E+02	7.57E+53	NA	NA	2.15E+02	1.51E-04	7.25E+07	YES

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	4.36E+01	NA	4.36E+01	NA	3.1E+01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	3.43E+07	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	9.7E-04

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

DATA ENTRY SHEET

SL-ADV
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
86737	5.83E+03	Fluorene

MORE

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	15	15	182	15			S		

MORE

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
Lookup Soil Parameters					Lookup Soil Parameters					Lookup Soil Parameters				
S	1.66	0.375	0.054	0.003										

MORE

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
4.40E-02	7.88E-06	9.62E-05	25	12,666	570.44	870.00	7.71E+03	1.69E+02	0.0E+00	1.4E-01	1.7E+02

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	5.83E+03	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.06E+06	3.77E-04	15	16,225	2.50E-05	1.07E-03	1.76E-04	7.12E-03	0.00E+00	0.00E+00	7.12E-03	1	15

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
2.31E+01	2.69E+02	0.10	9.95E+01	7.12E-03	4.00E+02	7.26E+151	NA	NA	7.68E+01	1.98E-07	1.35E+11	NO

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
9.54E-04	NA	2.57E-01	2.57E-01	NA	1.4E-01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	3.91E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.3E-03

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

SL-ADV
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES: X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
129000	4.32E+04	Pyrene

MORE ↓

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	15	15	61	15			S		

MORE ↓

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
Lookup Soil Parameters					Lookup Soil Parameters					Lookup Soil Parameters				
S	1.66	0.375	0.054	0.003										

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
2.77E-02	7.24E-06	1.20E-05	25	14,370	667.95	936.00	6.80E+04	1.35E-01	0.0E+00	1.1E-01	2.0E+02

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	2.75E+04	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.06E+06	3.77E-04	15	20,687	2.15E-06	9.21E-05	1.76E-04	4.51E-03	0.00E+00	0.00E+00	4.51E-03	1	15

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
2.04E+02	1.24E+01	0.10	9.95E+01	4.51E-03	4.00E+02	3.41E+239	NA	NA	4.90E+01	1.23E-09	2.70E+12	NO

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
9.59E-04	NA	1.19E-02	1.19E-02	NA	1.1E-01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	2.75E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	7.8E-05

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

DATA ENTRY SHEET

SG-ADV Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	
79016	9.70E+00			Trichloroethene					CA

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	15	11	15	0	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054								

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304.8	0.1	0.25	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	131.00	4.1E-06	2.0E-03

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	9.70E+00	2.12E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	3.77E-04	15	8,544	5.06E-03	2.17E-01	1.76E-04	1.28E-02	0.00E+00	0.00E+00	1.28E-02	1

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
15	9.70E+00	0.10	9.95E+01	1.28E-02	4.00E+02	4.15E+84	4.67E-03	4.53E-02	4.1E-06	2.0E-03

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.5E-08	1.6E-02

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

DATA ENTRY SHEET

SG-ADV Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	
127184	1.30E+00			Tetrachloroethene					CA

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	15	11	15	0	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054								

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304.8	0.1	0.25	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.77E-02	25	8,288	394.40	620.20	166.00	2.6E-07	4.0E-02

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	1.30E+00	2.12E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	3.77E-04	15	9,543	8.00E-03	3.43E-01	1.76E-04	1.16E-02	0.00E+00	0.00E+00	1.16E-02	1

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
15	1.30E+00	0.10	9.95E+01	1.16E-02	4.00E+02	7.00E+92	4.66E-03	6.06E-03	2.6E-07	4.0E-02

END

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.9E-10	1.0E-04

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

SCROLL DOWN TO "END"

END

SL-ADV 3.1; 02/04

Reset

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
83329	3.20E+03	Acenaphthene

Lookup Lookup Lookup

MORE

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	200	200	0	200			S		

MORE

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
S	1.66	0.375	0.054	0.003										

MORE

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
4.76E-02	7.69E-06	1.84E-03	25	12,155	550.54	803.15	4.90E+03	3.90E+00	0.0E+00	2.1E-01	1.5E+02

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	3.20E+03	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.80E+06	2.22E-04	200	16,110	4.82E-04	2.07E-02	1.76E-04	7.70E-03	0.00E+00	0.00E+00	7.70E-03	1	200

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
1.47E+01	4.49E+03	0.10	6.84E+01	7.70E-03	4.00E+02	3.77E+96	6.70E-04	3.01E+00	NA	NA	NA	NA

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	NA	NA	NA	NA	2.1E-01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	5.75E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	9.8E-03

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

R SL-ADV
Version 3.1; 02/04

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES X

Lo Lo

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
67641	4.32E+04	Acetone

MORE ↓

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	200	200	0	200			S		

MORE ↓

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
S	1.66	0.375	0.054	0.003										

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
1.24E-01	1.14E-05	1.87E-05	25	6,955	329.20	508.10	5.75E-01	1.00E+06	0.0E+00	3.1E+01	5.8E+01

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	4.32E+04	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.80E+06	2.22E-04	200	7,547	9.98E-06	4.28E-04	1.76E-04	2.01E-02	0.00E+00	0.00E+00	2.01E-02	1	200

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
1.73E-03	5.39E+05	0.10	6.84E+01	2.01E-02	4.00E+02	1.13E+37	6.72E-04	3.62E+02	NA	NA	NA	NA

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	NA	NA	NA	NA	3.1E+01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	3.43E+07	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.0E-03

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

SL-ADV
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
86737	5.83E+03	Fluorene

MORE ↓

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	200	200	0	200			S		

MORE ↓

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
Lookup Soil Parameters					Lookup Soil Parameters					Lookup Soil Parameters				
S	1.66	0.375	0.054	0.003										

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
4.40E-02	7.88E-06	9.62E-05	25	12,666	570.44	870.00	7.71E+03	1.69E+02	0.0E+00	1.4E-01	1.7E+02

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	5.83E+03	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.80E+06	2.22E-04	200	16,225	2.50E-05	1.07E-03	1.76E-04	7.12E-03	0.00E+00	0.00E+00	7.12E-03	1	200

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
2.31E+01	2.69E+02	0.10	6.84E+01	7.12E-03	4.00E+02	2.72E+104	6.70E-04	1.80E-01	NA	NA	NA	NA

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	NA	NA	NA	NA	1.4E-01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	3.91E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.8E-04

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

SL-ADV
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES: X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial soil conc., C_R (µg/kg)	Chemical
129000	4.32E+04	Pyrene

MORE ↓

ENTER Average soil temperature, T_S (°C)	ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to top of contamination, L_t (cm)	ENTER Depth below grade to bottom of contamination, (enter value of 0 if value is unknown) L_b (cm)	ENTER Totals must add up to value of L_t (cell G28) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
11	200	200	0	200			S		

MORE ↓

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum A soil organic carbon fraction, f_{oc}^A (unitless)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum B soil organic carbon fraction, f_{oc}^B (unitless)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)	ENTER Stratum C soil organic carbon fraction, f_{oc}^C (unitless)
Lookup Soil Parameters					Lookup Soil Parameters					Lookup Soil Parameters				
S	1.66	0.375	0.054	0.003										

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)	ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)
70	25	25	250	1.0E-05	1

Used to calculate risk-based soil concentration.

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Physical state at soil temperature, (S,L,G)
2.77E-02	7.24E-06	1.20E-05	25	14,370	667.95	936.00	6.80E+04	1.35E-01	0.0E+00	1.1E-01	2.0E+02

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu g/kg$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	2.75E+04	1.02E+05

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.80E+06	2.22E-04	200	20,687	2.15E-06	9.21E-05	1.76E-04	4.51E-03	0.00E+00	0.00E+00	4.51E-03	1	200

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source β term (unitless)	Finite source ψ term $(sec)^{-1}$	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion (YES/NO)
2.04E+02	1.24E+01	0.10	6.84E+01	4.51E-03	4.00E+02	5.32E+164	6.68E-04	8.30E-03	NA	NA	NA	NA

Finite source indoor attenuation coefficient, $<\alpha>$ (unitless)	Mass limit bldg. conc., $C_{building}$ ($\mu g/m^3$)	Finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	NA	NA	NA	NA	1.1E-01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation conc., C_{sat} (µg/kg)	Final indoor exposure soil conc., (µg/kg)
NA	NA	NA	2.75E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	5.4E-05

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

DATA ENTRY SHEET

SG-ADV Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	
79016	9.70E+00			Trichloroethene					CA

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
200	200	11	200	0	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054								

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304.8	0.1	0.25	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	131.00	4.1E-06	2.0E-03

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	9.70E+00	2.12E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	8,544	5.06E-03	2.17E-01	1.76E-04	1.28E-02	0.00E+00	0.00E+00	1.28E-02	1

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
200	9.70E+00	0.10	6.84E+01	1.28E-02	4.00E+02	1.55E+58	3.22E-03	3.13E-02	4.1E-06	2.0E-03

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.1E-08	1.1E-02

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

SG-ADV Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	
127184	1.30E+00			Tetrachloroethene					CA

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
200	200	11	200	0	0	S		

MORE ↓

ENTER Stratum A SCS soil type	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
Lookup Soil Parameters				Lookup Soil Parameters				Lookup Soil Parameters			
S	1.66	0.375	0.054								

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304.8	0.1	0.25	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.77E-02	25	8,288	394.40	620.20	166.00	2.6E-07	4.0E-02

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	1	0.321	ERROR	ERROR	0.003	9.94E-08	0.998	9.92E-08	4,000	1.30E+00	2.12E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	9,543	8.00E-03	3.43E-01	1.76E-04	1.16E-02	0.00E+00	0.00E+00	1.16E-02	1

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
200	1.30E+00	0.10	6.84E+01	1.16E-02	4.00E+02	7.06E+63	3.22E-03	4.19E-03	2.6E-07	4.0E-02

END

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
2.7E-10	7.2E-05

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

SCROLL DOWN TO "END"

END

Appendix K

Groundwater Use

K1 – Maximum Concentrations in Groundwater

Table K1
Maximum Groundwater Concentrations

Former Hudepohl Brewery

Chemical	Maximum Concentration (µg/L)	MCL/RDUPUS (µg/L)
Trichloroethene	75.4	5

All other VOCs/SVOCs non-detect.

Prepared by
PANDEY Environmental, LLC.
3/11/2013

Appendix L

Leaching Analysis

L1 – Soil/Water Partitioning Spreadsheet

L2 – SAM Method Spreadsheet

L3 – SESOIL Results

L4 – SESOIL Output Sheets

Table L1 - Soil / Water Partitioning Only Spreadsheet
Leaching Demonstration

Former Hudepohl Brewery

Chemical	Henry's Law[1]	Henry's Law[2]	Koc[3]	Kd[4]	MCL[5]	Soil Organic Carbon Content (foc)[6]	Water-Filled Soil Porosity[7]	Air-Filled Soil Porosity[8]	Dry Soil Bulk Density[9]	Soil Particle Density[10]	SSL Method[11]	Max[12]	Predicted Leachate Concentration[13]
	m3-atm/mol	Dimensionless	(ug/g) / (ug/ml)		ug/L	g/g	(L water / L soil)		Kg/L	Kg/L	ppb	ppb	ppb
Acenaphthene	1.84E-03	7.53E-02	4.90E+03	9.8	950.000	0.002	0.26	0.15	1.6	2.65	9317	3200	326.3
Acetone	1.87E-05	7.65E-04	5.75E-01	0.00115	14000.000	0.002	0.26	0.15	1.6	2.65	17	56.1	45918.9
Anthracene	4.88E-05	2.00E-03	2.34E+04	46.8	4700.000	0.002	0.26	0.15	1.6	2.65	219961	13700	292.7
Arsenic	0.00E+00	0.00E+00	0.00E+00	29.2	10.000	0.002	0.26	0.15	1.6	2.65	292	23200	794.5
Barium	0.00E+00	0.00E+00	0.00E+00	2.80E+03	2000.000	0.002	0.26	0.15	1.6	2.65	5600000	1310000	467.9
Benzo(a)anthracene	1.20E-05	4.91E-04	3.58E+05	716	0.630	0.002	0.26	0.15	1.6	2.65	451	25700	35.9
Benzo(a)pyrene	4.57E-07	1.87E-05	9.69E+05	1938	0.200	0.002	0.26	0.15	1.6	2.65	388	24600	12.7
Benzo(b)fluoranthene	5.00E-07	2.05E-05	1.23E+06	2460	0.460	0.002	0.26	0.15	1.6	2.65	1132	16000	6.5
Benzo(g,h,i)perylene	2.66E-07	1.09E-05	9.60E+04	192	470.000	0.002	0.26	0.15	1.6	2.65	90240	17400	90.6
Benzo(k)fluoranthene	5.84E-07	2.39E-05	1.23E+06	2460	22.000	0.002	0.26	0.15	1.6	2.65	54120	19000	7.7
Cadmium	0.00E+00	0.00E+00	0.00E+00	423	5.000	0.002	0.26	0.15	1.6	2.65	2115	4380	10.4
Chromium	0.00E+00	0.00E+00	0.00E+00	5.65E+01	100.000	0.002	0.26	0.15	1.6	2.65	5650	30500	539.8
Chrysene	5.23E-06	2.14E-04	3.98E+05	796	63.000	0.002	0.26	0.15	1.6	2.65	50148	25700	32.3
Dibenz(a,h)anthracene	1.20E-07	4.94E-06	1.79E+03	3.58	0.001	0.002	0.26	0.15	1.6	2.65	0	293	81.8
Fluoranthene	9.45E-06	3.87E-04	4.91E+04	98.2	420.000	0.002	0.26	0.15	1.6	2.65	41244	60000	611.0
Fluorene	9.62E-05	3.93E-03	7.71E+03	15.42	630.000	0.002	0.26	0.15	1.6	2.65	9715	5830	378.1
Indeno[1,2,3-cd]pyrene	3.48E-07	1.42E-05	3.47E+06	6940	0.340	0.002	0.26	0.15	1.6	2.65	2360	15400	2.2
Lead	0.00E+00	0.00E+00	0.00E+00	5.97E+02	15.000	0.002	0.26	0.15	1.6	2.65	8955	5800000	9715.2
Mercury	0.00E+00	0.00E+00	0.00E+00	580	2.000	0.002	0.26	0.15	1.6	2.65	1160	4440	7.7
Naphthalene	4.40E-04	1.80E-02	1.19E+03	2.38	67.000	0.002	0.26	0.15	1.6	2.65	160	1640	688.6
Phenanthrene	4.23E-05	1.73E-03	2.29E+04	45.8	4700.000	0.002	0.26	0.15	1.6	2.65	215261	42400	925.8
Pyrene	1.20E-05	4.91E-04	6.80E+04	136	470.000	0.002	0.26	0.15	1.6	2.65	63920	43200	317.6

[1] VAP CIDARS Database downloaded from Ohio EPA 1/18/2010
[2] VAP CIDARS Database downloaded from Ohio EPA 1/18/2010
[3] VAP CIDARS Database downloaded from Ohio EPA 1/18/2010
[4] For organics, values obtained from Koc*Foc
Inorganic Kd values are from "Table XX: Generic Kd Values for selected inorganic constituents," presented in the CP Coffee of July 19, 2005 titled "Use of Leaching Equations in RBCA Tool Kit® and SAM Model."
[5] Federal MCLs, VAP UPUS, or other VAP Risk-Based Groundwater Standards from Draft1107 CIDARS Database
[6] VAP CP Coffee 07/19/2005 Acceptable Default Values
[7] VAP CP Coffee 07/19/2005 Acceptable Default Values
[8] VAP CP Coffee 07/19/2005 Acceptable Default Values
[9] VAP CP Coffee 07/19/2005 Acceptable Default Values
[10] USEPA Soil Screening Guidance Technical Background Document
[11] Soil Screening Level
[12] Maximum concentration of chemical in parts per billion
[13] Predicted based upon ratio of SSL to MCL
* Shaded values indicates predicted exceedance of Federal MCL/VAP Risk Derived Generic Unrestricted Potable Use Standards

Prepared by
PANDEY Environmental, LLC.
3/11/2013

Table L2 - Soil Attenuation Model (SAM)
Leaching Demonstration

Former Hudepohl Brewery

Chemical	Henry's Law[1]	Henry's Law[2]	Koc[3]	Kd[4]	MCL/RDUPUS[5]	Soil Organic Carbon Content (foc)[6]	Water-Filled Soil Porosity[7]	Air-Filled Soil Porosity[8]	Dry Soil Bulk Density[9]	Soil Particle Density[10]	Dilution Attenuation Factor[11]	Thickness of Contaminated Soil	Thickness of Leaching Zone	SAM Method[12]	Max[13]	Max Predicted Leachate Concentration
	m3-atm/mol	Dimensionless	(ug/g) / (ug/ml)		ug/L	g/g	(L water / L soil)		Kg/L	Kg/L				ppb	ppb	ppb
Acenaphthene	**1.84E-03**	**7.53E-02**	**4.90E+03**	**9.8**	**950.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	2	40	1.89E+05	**3200**	16.0489
Acetone	**1.87E-05**	**7.65E-04**	**5.75E-01**	**0.00115**	**14000.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	1.53E+04	**56.1**	51.3982
Anthracene	**4.88E-05**	**2.00E-03**	**2.34E+04**	**46.8**	**4700.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	1.47E+06	**13700**	43.7581
Arsenic	**0.00E+00**	**0.00E+00**	**0.00E+00**	**29.2**	**10.000**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	21	40	5.59E+02	**23200**	414.8148
Barium	**0.00E+00**	**0.00E+00**	**0.00E+00**	**2800**	**2000.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	21	40	1.07E+07	**1310000**	245.6107
Benzo(a)anthracene	**1.20E-05**	**4.91E-04**	**3.58E+05**	**716**	**0.63**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	3.01E+03	**25700**	5.3829
Benzo(a)pyrene	**4.57E-07**	**1.87E-05**	**9.69E+05**	**1938**	**0.20**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	2.58E+03	**24600**	1.9039
Benzo(b)fluoranthene	**5.00E-07**	**2.05E-05**	**1.23E+06**	**2460**	**0.46**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	7.54E+03	**16000**	0.9755
Benzo(g,h,i)perylene	**2.66E-07**	**1.09E-05**	**9.60E+04**	**192**	**470.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	6.02E+05	**17400**	13.5823
Benzo(k)fluoranthene	**5.84E-07**	**2.39E-05**	**1.23E+06**	**2460**	**22.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	3.61E+05	**19000**	1.1585
Cadmium	**0.00E+00**	**0.00E+00**	**0.00E+00**	**423**	**5.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	1.41E+04	**4380**	1.5526
Chromium	**0.00E+00**	**0.00E+00**	**0.00E+00**	**56.5**	**100.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	3.78E+04	**30500**	80.7412
Chrysene	**5.23E-06**	**2.14E-04**	**3.98E+05**	**796**	**63.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	3.34E+05	**25700**	4.8420
Dibenz(a,h)anthracene	**1.20E-07**	**4.94E-06**	**1.79E+03**	**3.58**	**0.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	14	40	1.07E-02	**293**	27.4015
Fluoranthene	**9.45E-06**	**3.87E-04**	**4.91E+04**	**98.2**	**420.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	4	40	4.13E+05	**60000**	60.9988
Fluorene	**9.62E-05**	**3.93E-03**	**7.71E+03**	**15.42**	**630.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	6.54E+04	**5830**	56.1193
Indeno[1,2,3-cd]pyrene	**3.48E-07**	**1.42E-05**	**3.47E+06**	**6940**	**0.34**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	1.57E+04	**15400**	0.3328
Lead	**0.00E+00**	**0.00E+00**	**0.00E+00**	**597**	**15.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	21	40	1.71E+04	**5800000**	5099.1146
Naphthalene	**4.40E-04**	**1.80E-02**	**1.19E+03**	**2.38**	**67.000**	**0.002**	**0.26**	**0.15**	**1.6**	**2.65**	**1.0**	2	40	3.41E+03	**1640**	32.2303
Mercury	**0.00E+00**	**0.00E+00**	**0.00E+00**	**580**	**2.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	21	40	2.21E+03	**4440**	4.0178
Phenanthrene	**4.23E-05**	**1.73E-03**	**2.29E+04**	**45.8**	**4700.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	1.44E+06	**42400**	138.3732
Pyrene	**1.20E-05**	**4.91E-04**	**6.80E+04**	**136**	**470.00**	**0.002**	**0.26**	**0.15**	**1.6000**	**2.65**	**1.0**	6	40	4.27E+05	**43200**	47.5902

[1] VAP CIDARS Database downloaded from Ohio EPA 1/18/2010
[2] VAP CIDARS Database downloaded from Ohio EPA 1/18/2010
[3] VAP CIDARS Database downloaded from Ohio EPA 1/18/2010
[4] For organics, values obtained from Koc*Foc
Inorganic Kd values are from "Table XX: Generic Kd Values for selected inorganic constituents," presented in the CP Coffee of July 19, 2005 titled "Use of Leaching Equations in RBCA Tool Kit® and SAM Model."
[5] Federal MCLs, VAP UPUS, or other VAP Risk-Based Groundwater Standards from ChemDatabase 3-22-04.xls.
[6] VAP CP Coffee 07/19/2005 Acceptable Default Values
[7] VAP CP Coffee 07/19/2005 Acceptable Default Values
[8] VAP CP Coffee 07/19/2005 Acceptable Default Values
[9] VAP CP Coffee 07/19/2005 Acceptable Default Values
[10] USEPA Soil Screening Guidance Technical Background Document
[11] Generic factor of 1 assumed
[12] Soil Attenuation Model as presented by Lisa Koenig, July 19, 2005 in Certified Professional Coffee in OEPA-SWDO
[13] Maximum soil concentration of chemical in parts per billion
* **Shaded values indicates predicted exceedance of Federal MCL/VAP Risk Derived Generic Unrestricted Potable Use Standards**

Prepared by
PANDEY Environmental, LLC.
3/11/2013

Table L3 - SESOIL Modeling Results
Leaching Demonstration

Former Hudepohl Brewery

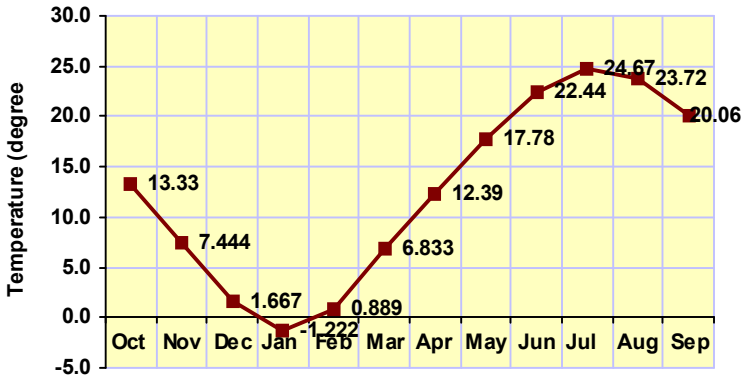
Chemical	Max Soil Concentration (ppm)	MCL/RDUPUS (µg/L)	Predicted Leachate (µg/L)
Arsenic	23.2	10	0
Benzo(a)anthracene	25.7	0.63	0
Benzo(a)pyrene	24.6	0.2	0
Benzo(b)fluoranthene	16	0.46	0
Dibenz(a,h)anthracene	0.293	0.001	0
Lead	5800	15	0
Mercury	4.44	2	0

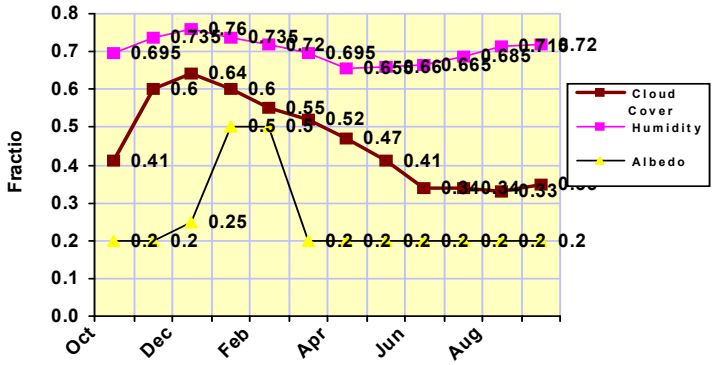
Prepared by
PANDEY Environmental, LLC.
3/11/2013

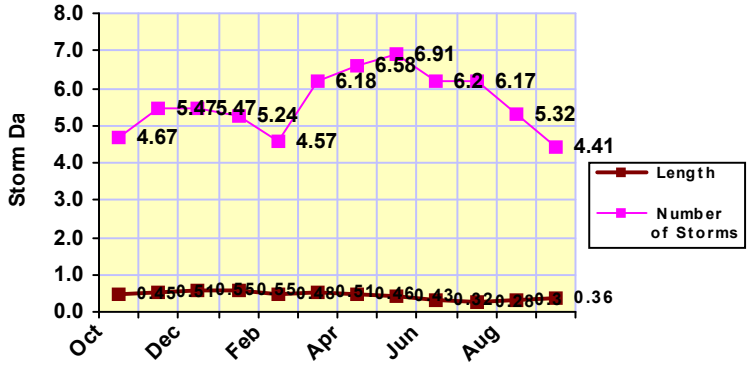
Climate Report

Location Description: CIN MUNI-LUNKEN FLD
Climatic Input File: C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	^{o}C	^{o}F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	13.33	55.99	6.985	2.75	0.00	0.00	4.67	0.450	0.410	0.200	0.695
November	7.444	45.40	8.433	3.32	0.00	0.00	5.47	0.510	0.600	0.200	0.735
December	1.667	35.00	7.772	3.06	0.00	0.00	5.47	0.550	0.640	0.250	0.760
January	-1.222	29.80	6.426	2.53	0.00	0.00	5.24	0.550	0.600	0.500	0.735
February	0.889	33.60	6.350	2.50	0.00	0.00	4.57	0.480	0.550	0.500	0.720
March	6.833	44.30	10.57	4.16	0.00	0.00	6.18	0.510	0.520	0.200	0.695
April	12.39	54.30	9.373	3.69	0.00	0.00	6.58	0.460	0.470	0.200	0.655
May	17.78	64.00	11.10	4.37	0.00	0.00	6.91	0.430	0.410	0.200	0.660
June	22.44	72.39	8.661	3.41	0.00	0.00	6.20	0.320	0.340	0.200	0.665
July	24.67	76.41	10.34	4.07	0.00	0.00	6.17	0.280	0.340	0.200	0.685
August	23.72	74.70	9.423	3.71	0.00	0.00	5.32	0.300	0.330	0.200	0.715
September	20.06	68.11	7.950	3.13	0.00	0.00	4.41	0.360	0.350	0.200	0.720
Total			103.38	40.70	0.00	0.00					



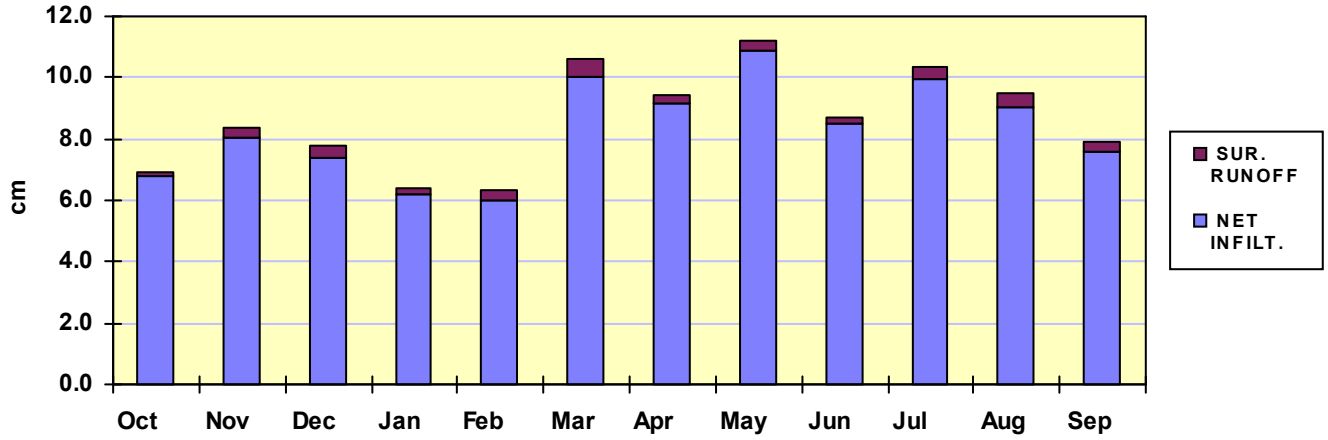


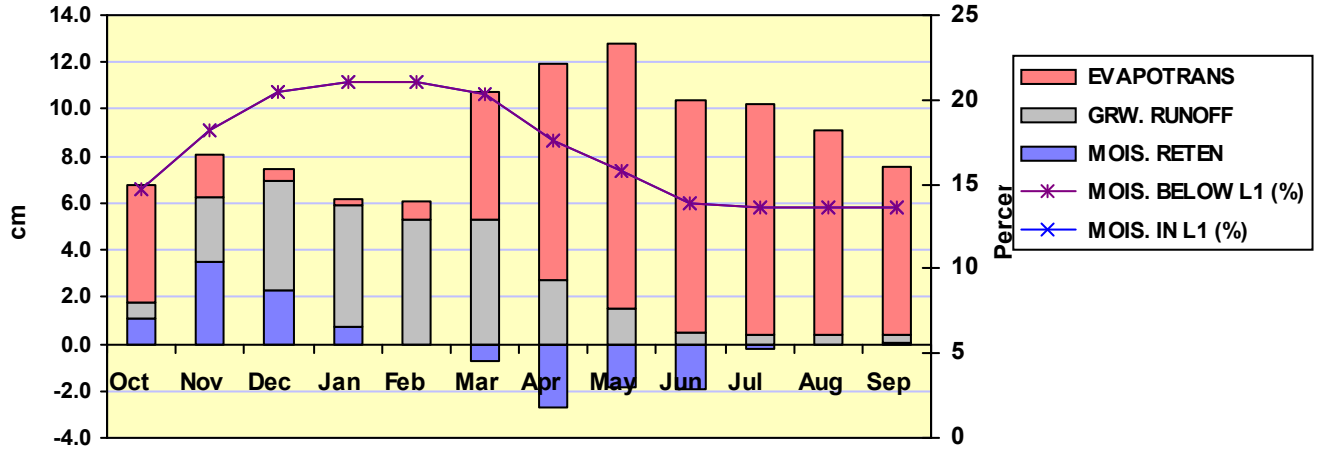


SESOIL Hydrologic Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\MERC0321.OUT





	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
											Layer 1	Below Layer 1
Units	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Percent	Percent
October	0.16	0.06	6.77	2.67	5.04	1.98	1.07	0.42	0.67	0.26	14.67	14.67
November	0.31	0.12	8.05	3.17	1.78	0.70	3.52	1.39	2.75	1.08	18.13	18.13
December	0.34	0.13	7.42	2.92	0.50	0.20	2.31	0.91	4.60	1.81	20.41	20.41
January	0.24	0.09	6.17	2.43	0.30	0.12	0.71	0.28	5.16	2.03	21.11	21.11
February	0.36	0.14	6.00	2.36	0.76	0.30	-0.04	-0.02	5.28	2.08	21.07	21.07
March	0.65	0.26	9.99	3.93	5.46	2.15	-0.75	-0.30	5.28	2.08	20.34	20.34
April	0.25	0.10	9.16	3.61	9.21	3.63	-2.74	-1.08	2.69	1.06	17.64	17.64
May	0.32	0.13	10.87	4.28	11.27	4.44	-1.89	-0.74	1.49	0.59	15.79	15.79
June	0.19	0.07	8.50	3.35	9.91	3.90	-1.92	-0.76	0.52	0.20	13.90	13.90
July	0.43	0.17	9.93	3.91	9.76	3.84	-0.25	-0.10	0.42	0.17	13.65	13.65
August	0.43	0.17	9.05	3.56	8.74	3.44	-0.07	-0.03	0.38	0.15	13.58	13.58
September	0.32	0.13	7.58	2.98	7.18	2.83	0.04	0.02	0.37	0.15	13.62	13.62
Total	3.99	1.57	99.51	39.18	69.90	27.52	0.00	0.00	29.61	11.66		

SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	29.20	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	29.20	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	29.20	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	29.20	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

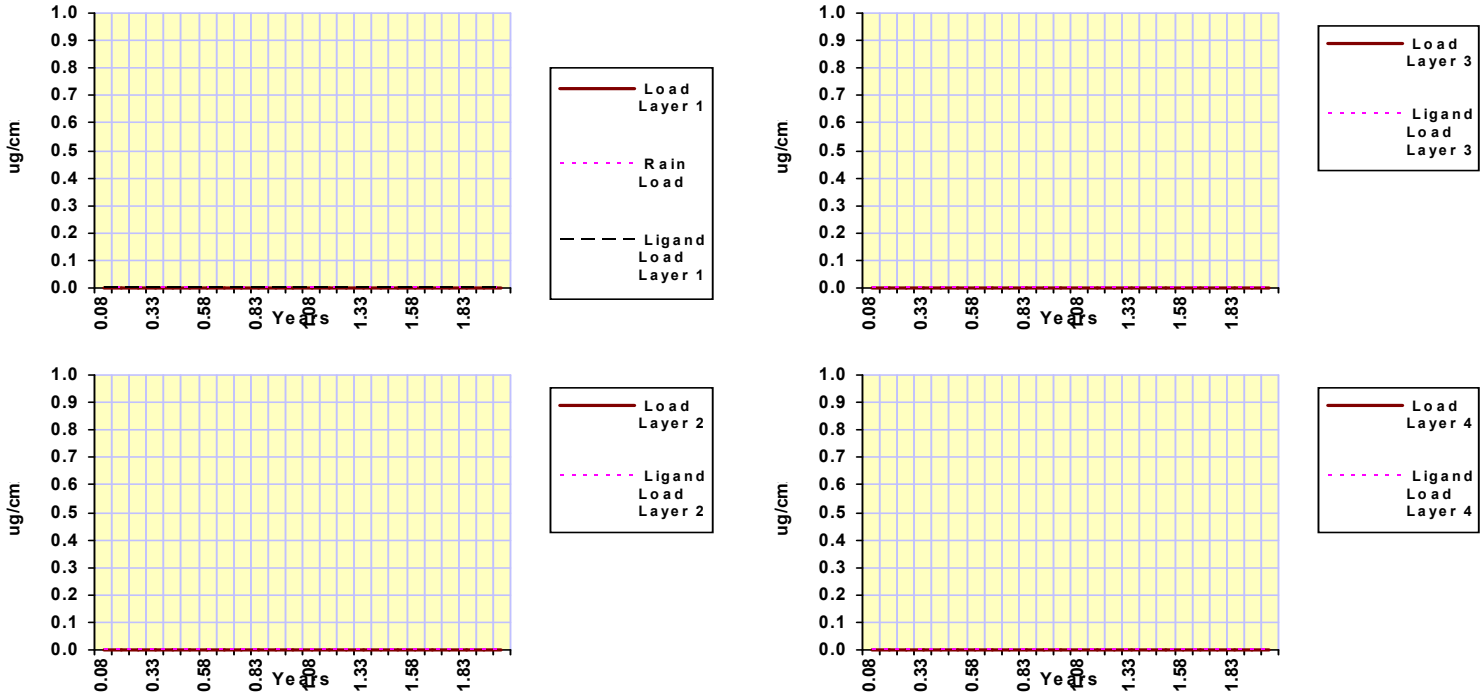
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

Chemical Parameters

Water Solubility	(µg/mL)	3.47E+4	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	0.00	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	0.00	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	7.72E-2	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	0.00	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	74.90		

Output File:
C:\SEVIEW63\HUDEPOHL\ARS0318.OUT
Chemical File: Arsenic, Inorganic (Kd)
C:\SEVIEW63\DELAWARE\ARSENICK.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\ARSENIC.APL

Sublayer Loads	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Layer 1 (ug/g)	1.44E+01	1.27E+01	2.06E+01	9.60E+00	1.16E+01					
Layer 2 (ug/g)	1.30E+01	1.57E+01		8.89E+00	8.00E+00					
Layer 3 (ug/g)	2.32E+01		8.90E+00		3.59E+00					
Layer 4 (ug/g)	4.51E+00									



SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\HUDEPOHL\ARS0318.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	0.000E+00	0.00
In Soil Air	0.000E+00	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	1.310E+09	99.19
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	4.364E+06	0.33
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	1.314E+09	99.52
Total Input	1.321E+09	
Input - Output	6.336E+06	

Maximum leachate concentration: 0.000E+00 **mg/l**

Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Arsenic, Inorganic (Kd)
C:\SEVIEW63\DELAWARE\ARSENICK.CHM

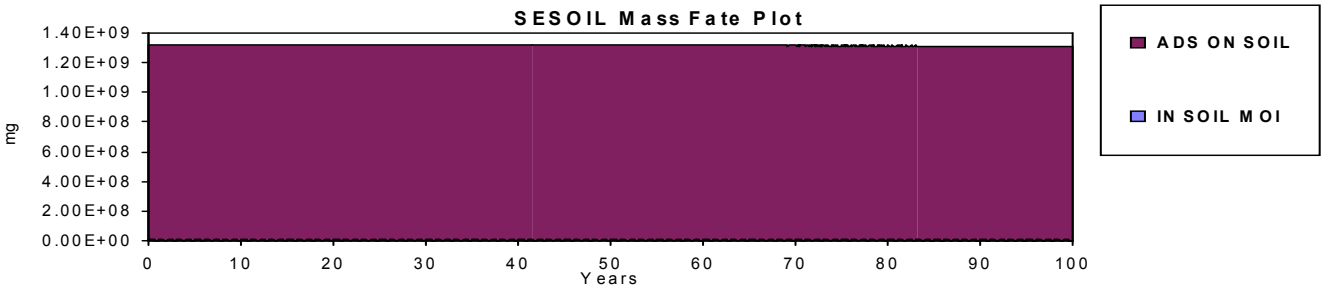
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI

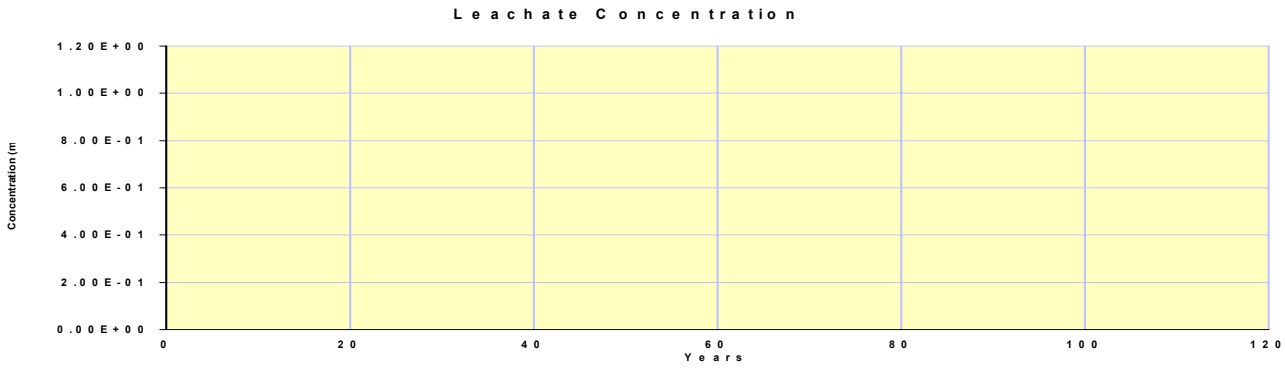
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\ARSENIC.APL

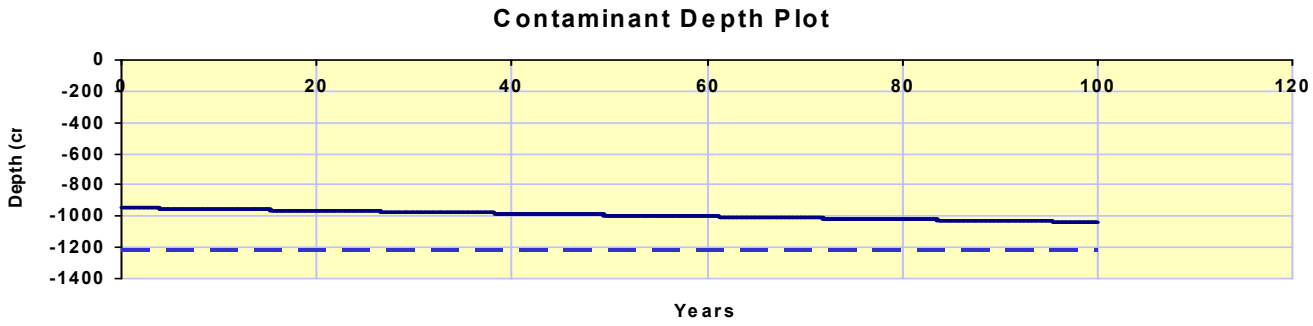
Starting Depth: 945.60 **cm**

Ending Depth: 1039.00 **cm**

Total Depth: 1220.00 **cm**







SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

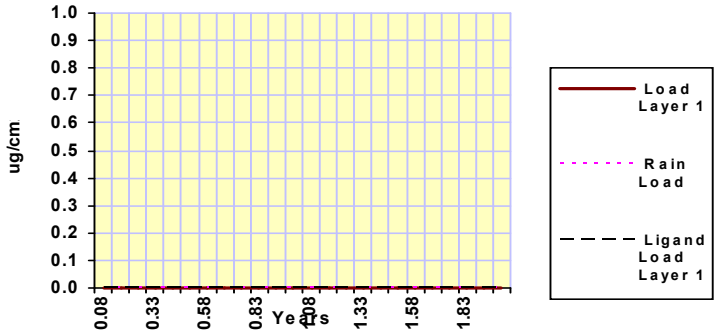
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

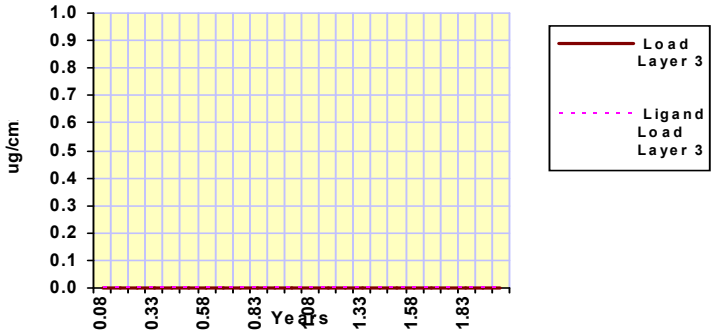
Chemical Parameters

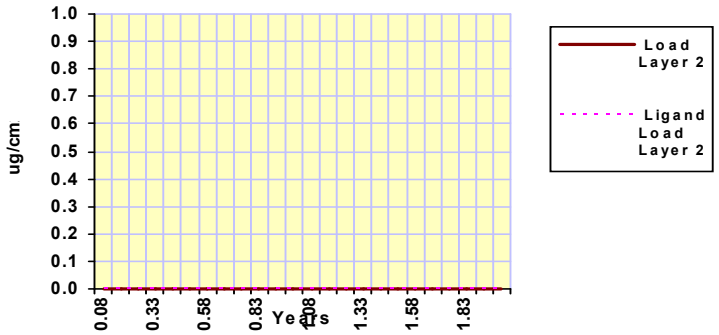
Water Solubility	(µg/mL)	9.40E-3	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	3.35E-6	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	357000	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	5.10E-2	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	9.00E-6	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	228.00		

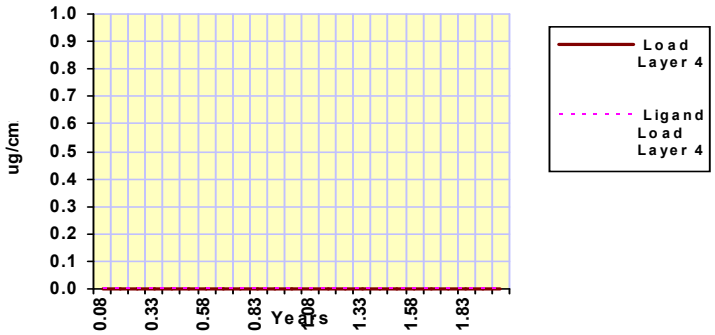
Output File:
C:\SEVIEW63\HUDEPOHL\BENA0318.OUT
Chemical File: Benzo(a)anthracene OEPA 2003
C:\SEVIEW63\HUDEPOHL\BENZOAAN.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\BENZOA.APL

Sublayer Loads	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Layer 1 (ug/g)	7.61E+00		2.57E+01							
Layer 2 (ug/g)		1.10E+00								
Layer 3 (ug/g)										
Layer 4 (ug/g)										









SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\HUDEPOHL\BENA0318.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	1.016E+04	0.00
In Soil Air	4.101E+00	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	1.392E+08	47.39
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	1.544E+08	52.53
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.897E+04	0.01
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	2.937E+08	99.94
Total Input	2.939E+08	
Input - Output	1.884E+05	

Maximum leachate concentration: 0.000E+00 **mg/l**

Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Benzo(a)anthracene OEPA 2003
C:\SEVIEW63\HUDEPOHL\BENZOAAN.CHM

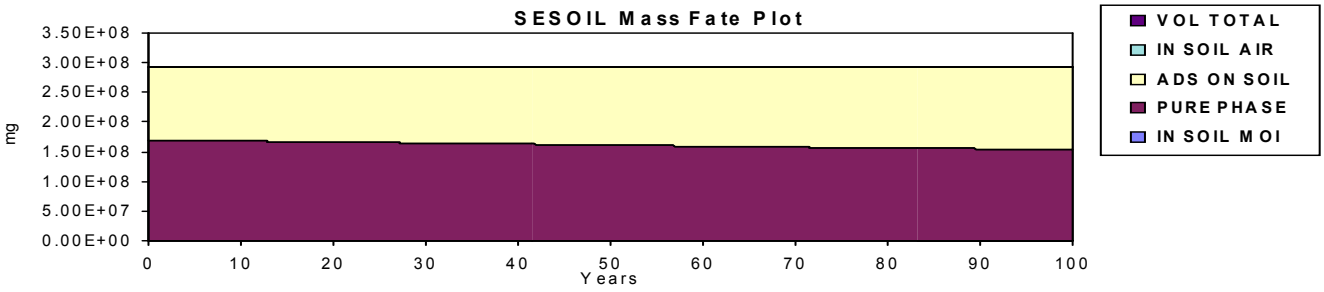
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI

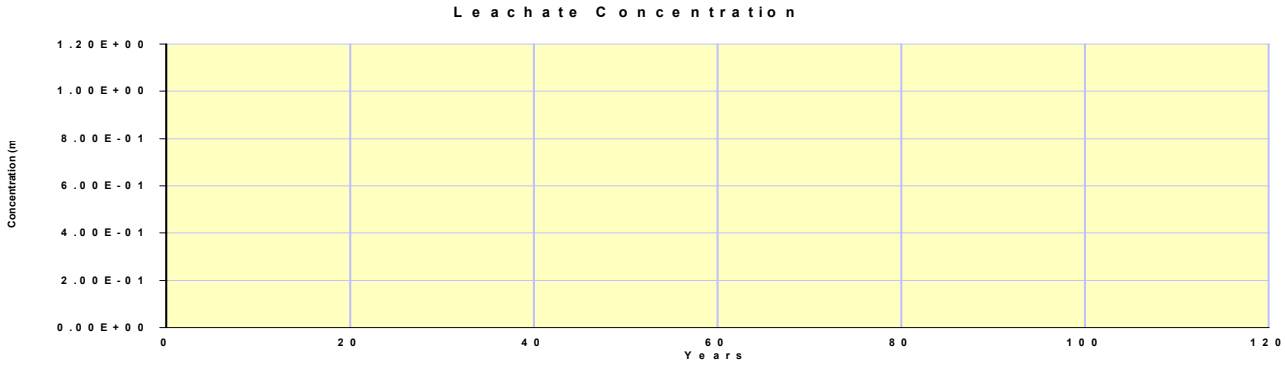
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\BENZOA.APL

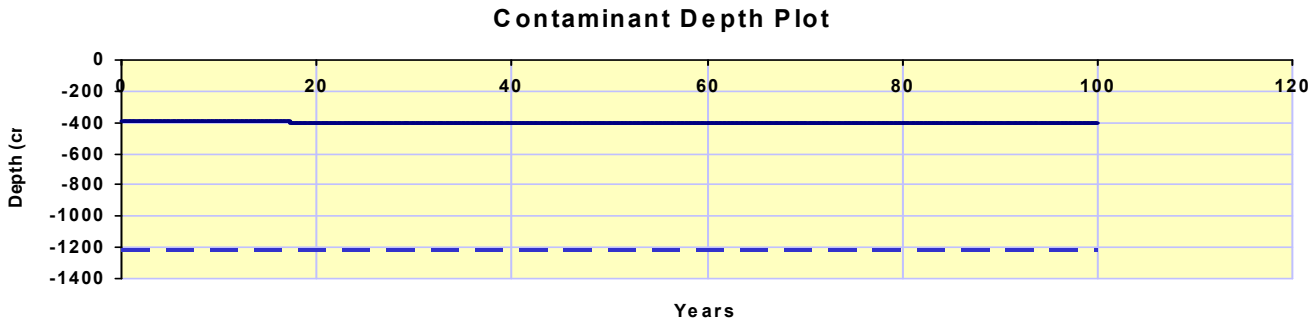
Starting Depth: 396.50 **cm**

Ending Depth: 403.70 **cm**

Total Depth: 1220.00 **cm**







SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

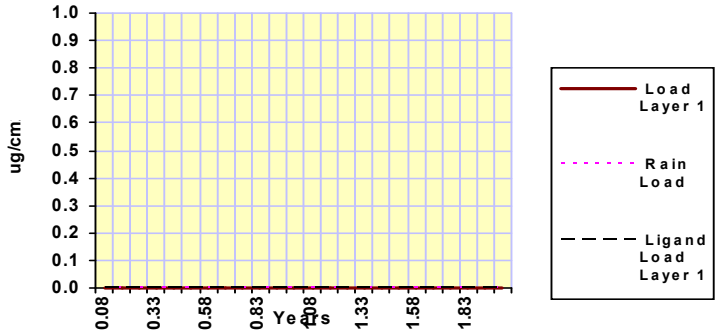
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

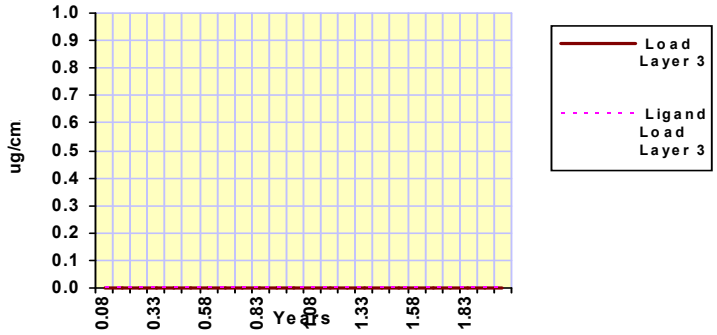
Chemical Parameters

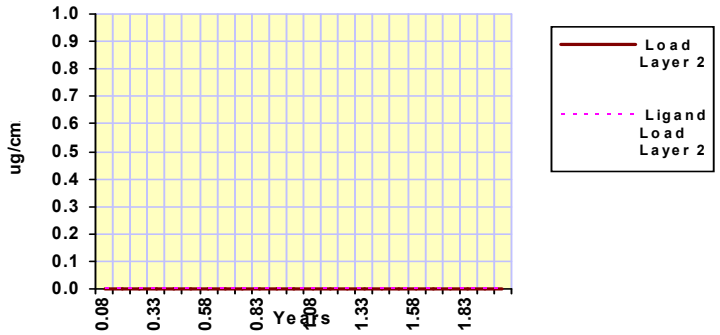
Water Solubility	(µg/mL)	1.62E-3	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	1.13E-6	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	969000	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	4.30E-2	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	9.00E-6	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	252.00		

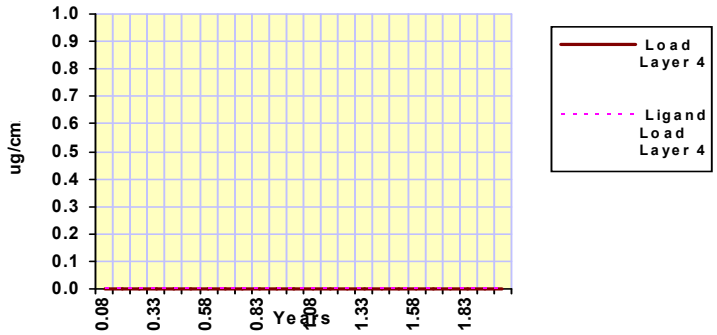
Output File:
C:\SEVIEW63\HUDEPOHL\BAP0318.OUT
Chemical File: Benzo(a)pyrene OEPA 2003
C:\SEVIEW63\HUDEPOHL\BENZOAPY.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\BAP.APL

Sublayer Loads	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Layer 1 (ug/g)	7.60E+00		2.46E+01							
Layer 2 (ug/g)		1.02E+00								
Layer 3 (ug/g)										
Layer 4 (ug/g)										









SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\HUDEPOHL\BAP0318.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	4.994E+02	0.00
In Soil Air	2.388E-01	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	6.527E+07	23.01
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	2.184E+08	77.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	3.277E+03	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	2.837E+08	100.01
Total Input	2.837E+08	
Input - Output	-2.240E+04	

Maximum leachate concentration: 0.000E+00 **mg/l**

Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Benzo(a)pyrene OEPA 2003
C:\SEVIEW63\HUDEPOHL\BENZOAPY.CHM

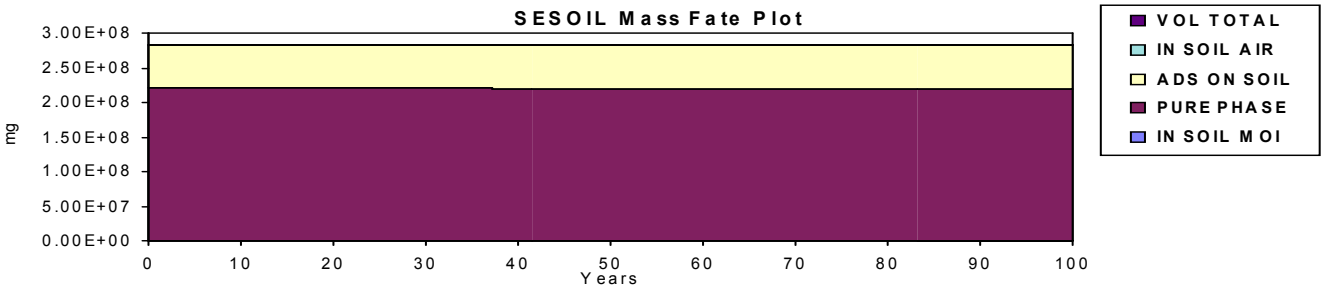
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI

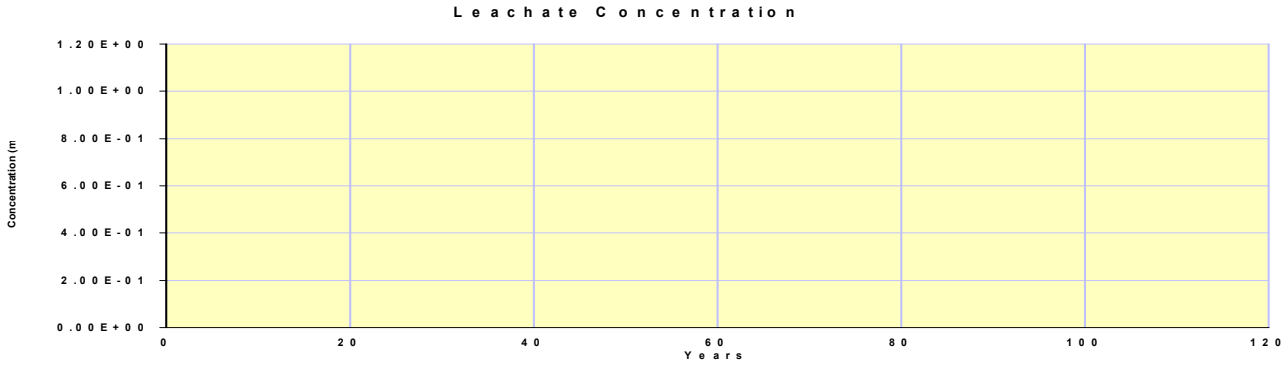
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\BAP.APL

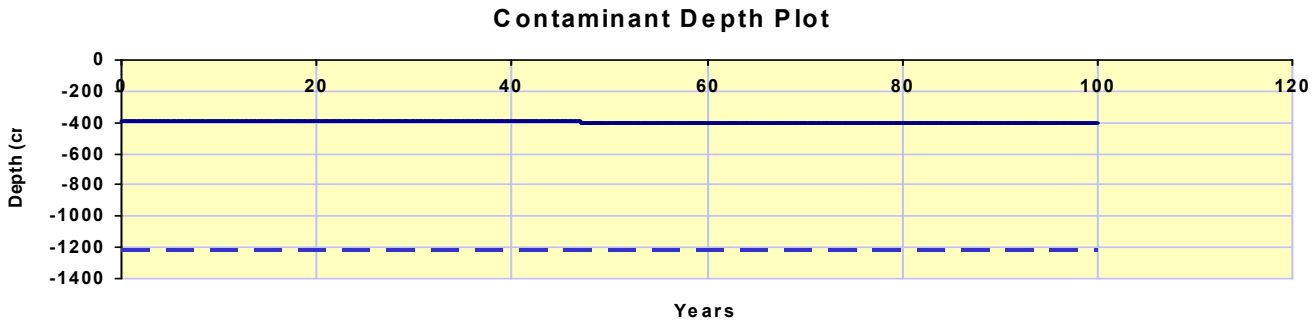
Starting Depth: 396.50 **cm**

Ending Depth: 399.20 **cm**

Total Depth: 1220.00 **cm**







SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

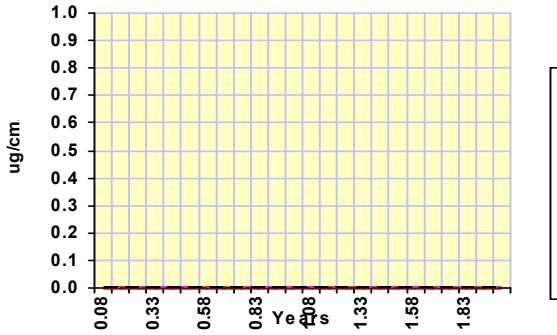
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

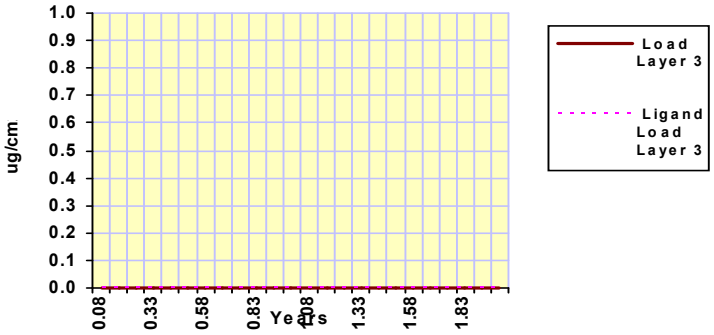
Chemical Parameters

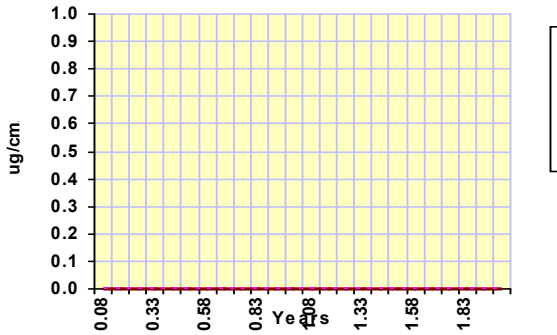
Water Solubility	(µg/mL)	1.50E-3	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	1.11E-4	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	1230000	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	2.26E-2	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	5.56E-6	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	252.00		

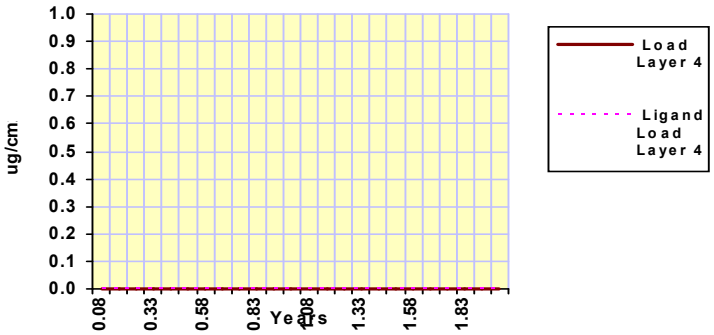
Output File:
C:\SEVIEW63\HUDEPOHL\BAF0318.OUT
Chemical File: Benzo(b)fluoranthene OEPA 2003
C:\SEVIEW63\HUDEPOHL\BENZOBFL.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\BAF.APL

Sublayer Loads	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Layer 1 (ug/g)	5.26E+00	4.60E-01	1.60E+01							
Layer 2 (ug/g)		8.11E-01								
Layer 3 (ug/g)										
Layer 4 (ug/g)										









SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\HUDEPOHL\BAF0318.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	2.387E+04	0.01
In Soil Air	2.164E+01	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	7.642E+07	39.72
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	1.159E+08	60.27
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	3.022E+03	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	1.924E+08	100.00
Total Input	1.924E+08	
Input - Output	-4.783E+03	

Maximum leachate concentration: 0.000E+00 **mg/l**

Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Benzo(b)fluoranthene OEPA 2003
C:\SEVIEW63\HUDEPOHL\BENZOBFL.CHM

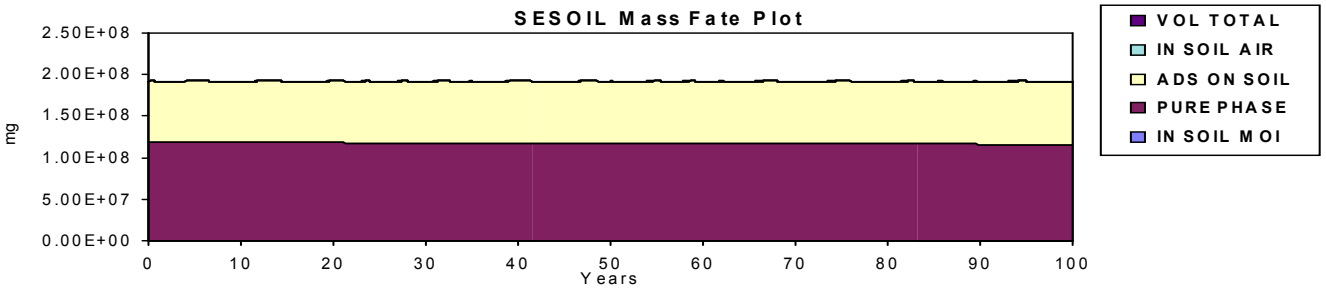
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI

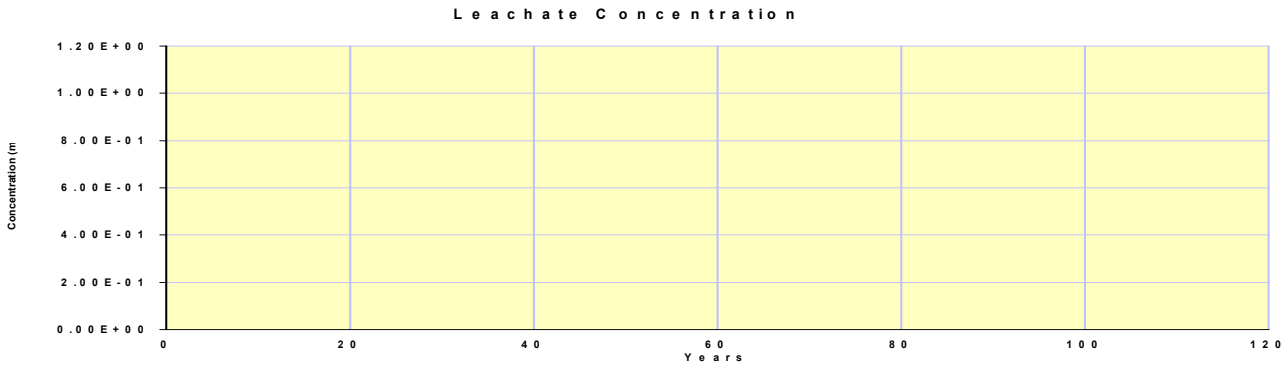
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\BAF.APL

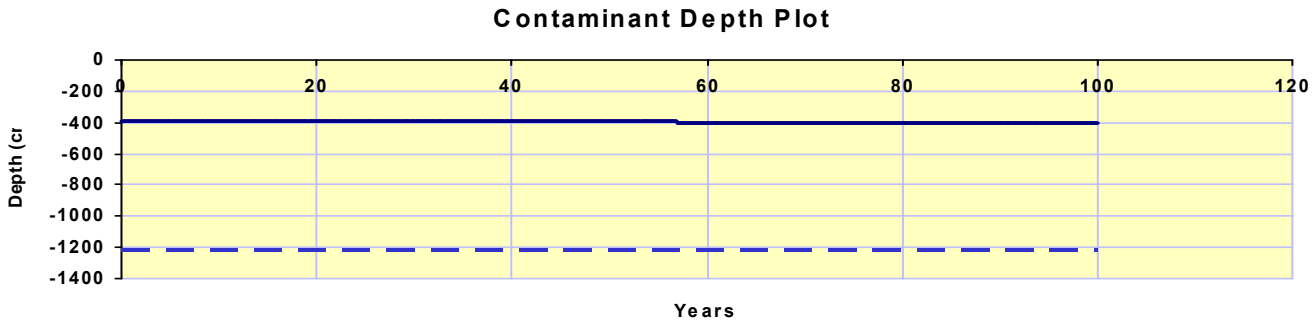
Starting Depth: 396.50 **cm**

Ending Depth: 398.70 **cm**

Total Depth: 1220.00 **cm**







SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

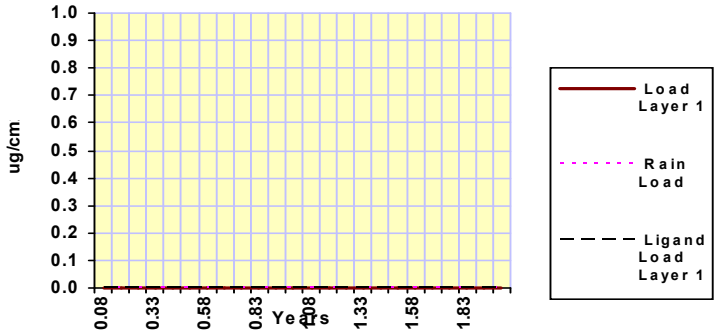
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

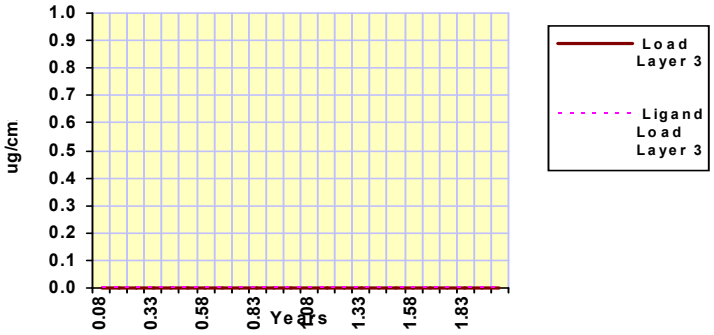
Chemical Parameters

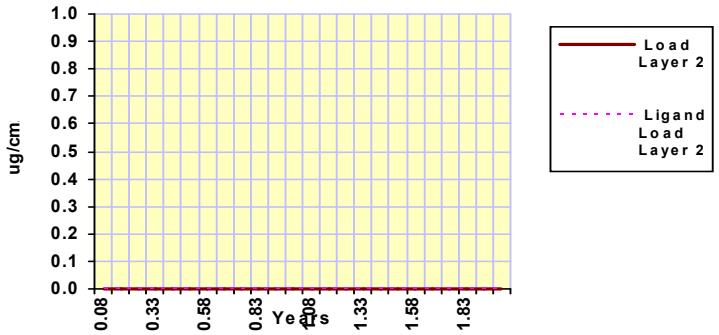
Water Solubility	(µg/mL)	2.49E-3	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	1.47E-8	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	1790000	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	2.02E-2	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	5.18E-6	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	278.00		

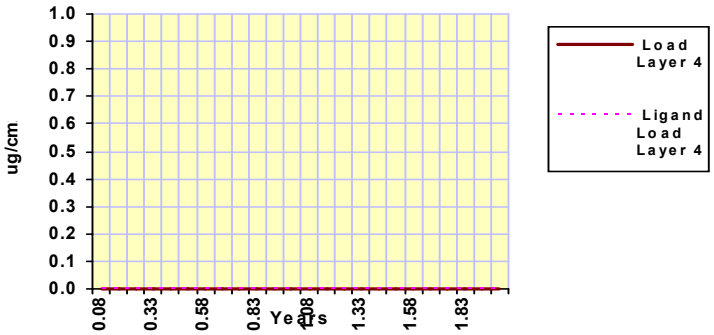
Output File:
C:\SEVIEW63\HUDEPOHL\DIB0318.OUT
Chemical File: Dibenz(a,h)anthracene Ohio EPA
C:\SEVIEW63\HUDEPOHL\DIBENZAH.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\DIBENZ.APL

Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)										
Layer 2 (ug/g)		2.93E-01								
Layer 3 (ug/g)										
Layer 4 (ug/g)										









SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\HUDEPOHL\DIB0318.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	1.883E-11	0.00
In Soil Air	6.447E-05	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	2.502E+06	100.00
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	6.798E+01	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	2.502E+06	100.00
Total Input	2.502E+06	
Input - Output	-6.798E+01	

Maximum leachate concentration: 0.000E+00 **mg/l**

Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Dibenz(a,h)anthracene Ohio EPA
C:\SEVIEW63\HUDEPOHL\DIBENZAH.CHM

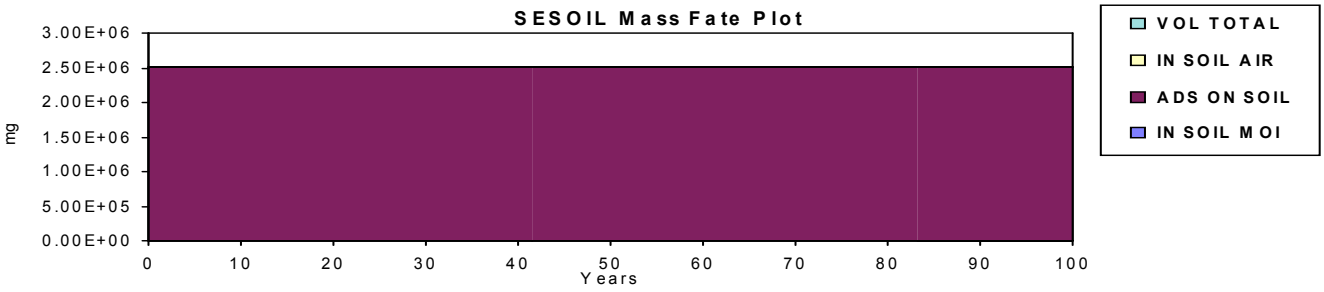
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI

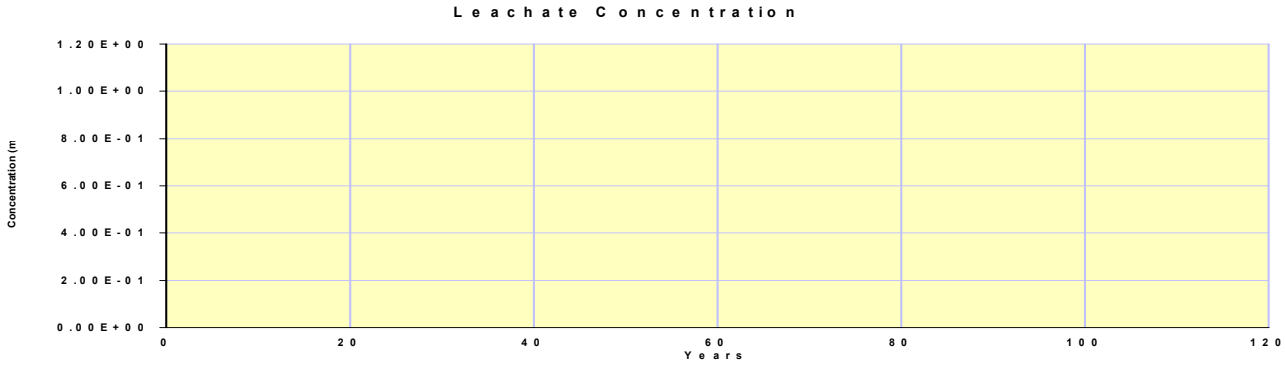
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\DIBENZ.APL

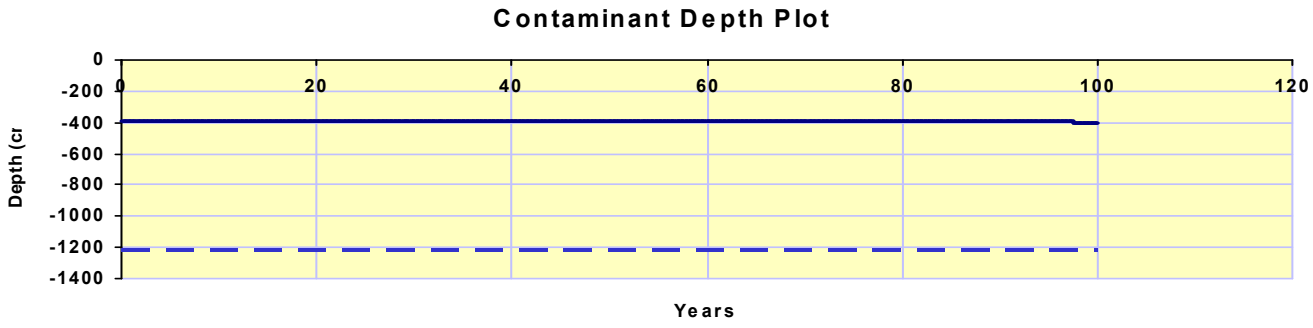
Starting Depth: 396.50 **cm**

Ending Depth: 397.80 **cm**

Total Depth: 1220.00 **cm**







SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

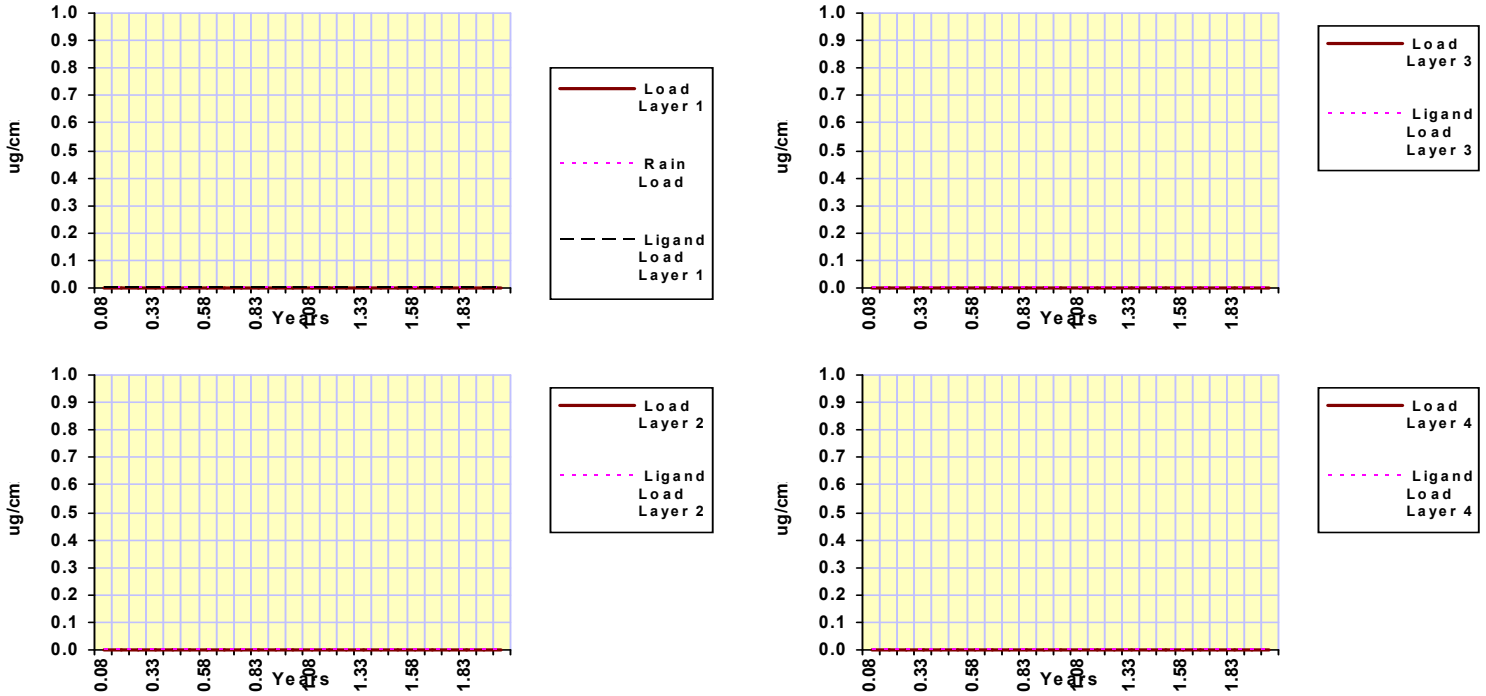
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

Chemical Parameters

Water Solubility	(µg/mL)	9.58E+3	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	2.44E-2	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	0.00	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	0.00	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	0.00	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	207.00		

Output File:
C:\SEVIEW63\HUDEPOHL\LEAD0318.OUT
Chemical File: Lead And Compounds (Kd)
C:\SEVIEW63\HUDEPOHL\LEADANDC.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\LEAD.APL

Sublayer Loads	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Layer 1 (ug/g)	2.30E+03	6.68E+02	5.58E+02	4.14E+02	1.99E+01					
Layer 2 (ug/g)	2.18E+01	2.85E+02	9.24E+02	1.09E+01	6.10E+00					
Layer 3 (ug/g)	5.80E+03		4.49E+02		2.87E+00					
Layer 4 (ug/g)	4.68E+00									



SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\HUDEPOHL\LEAD0318.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	0.000E+00	0.00
In Soil Air	1.658E+07	0.02
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	9.748E+10	99.58
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.053E+07	0.01
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	9.751E+10	99.61
Total Input	9.790E+10	
Input - Output	3.847E+08	

Maximum leachate concentration: 0.000E+00 **mg/l**

Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Lead And Compounds (Kd)
C:\SEVIEW63\HUDEPOHL\LEADANDC.CHM

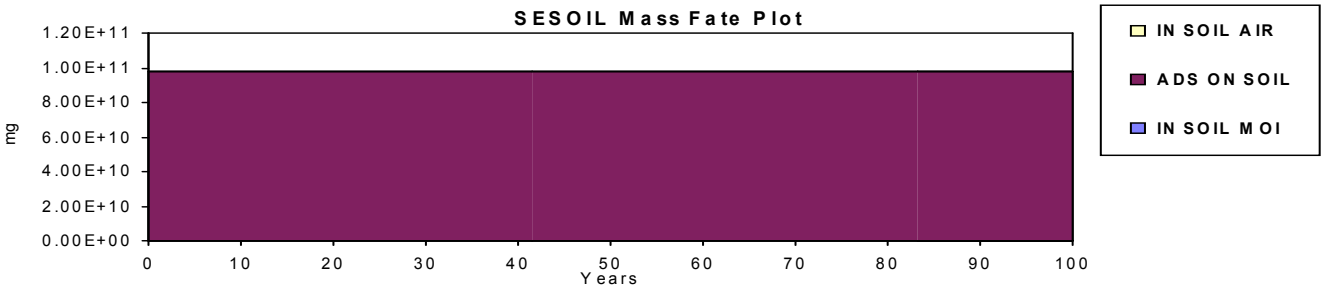
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\HUDESAND.SOI

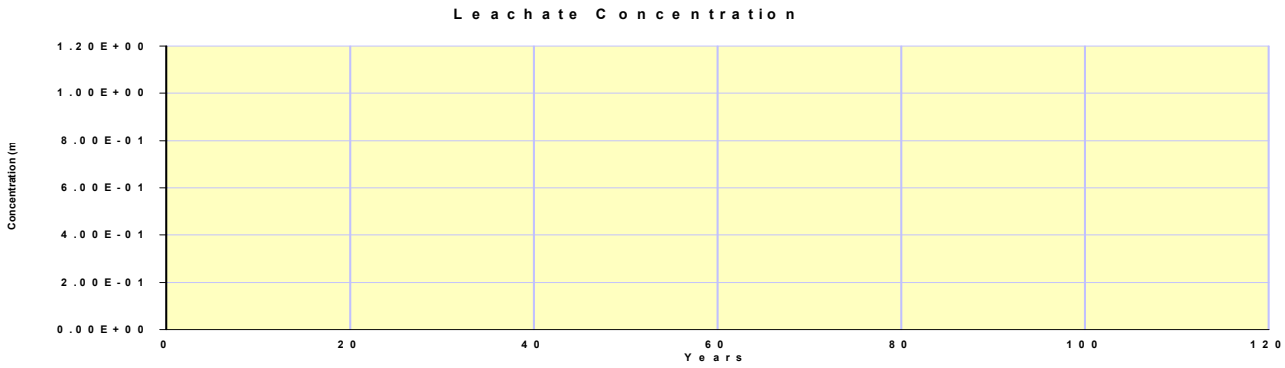
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\LEAD.APL

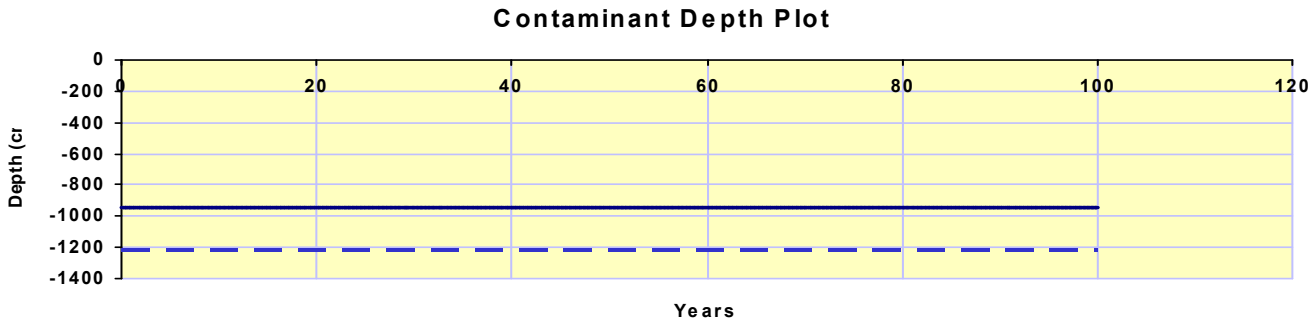
Starting Depth: 945.50 **cm**

Ending Depth: 948.80 **cm**

Total Depth: 1220.00 **cm**







SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet	cm^2	percent	µg/g / µg/mL	mEq / 100 g soil	unitless	1/day	1/day	pH
1	5	305.0	10.01	5.00E-10	0.20	52.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	5	305.0	10.01	5.00E-10	0.20	52.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	305.0	10.01	5.00E-10	0.20	52.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	305.0	10.01	5.00E-10	0.20	52.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm^3)	1.40
Effective Porosity (fraction)	0.35
Soil Pore Disconnectedness	5.00

Application Parameters

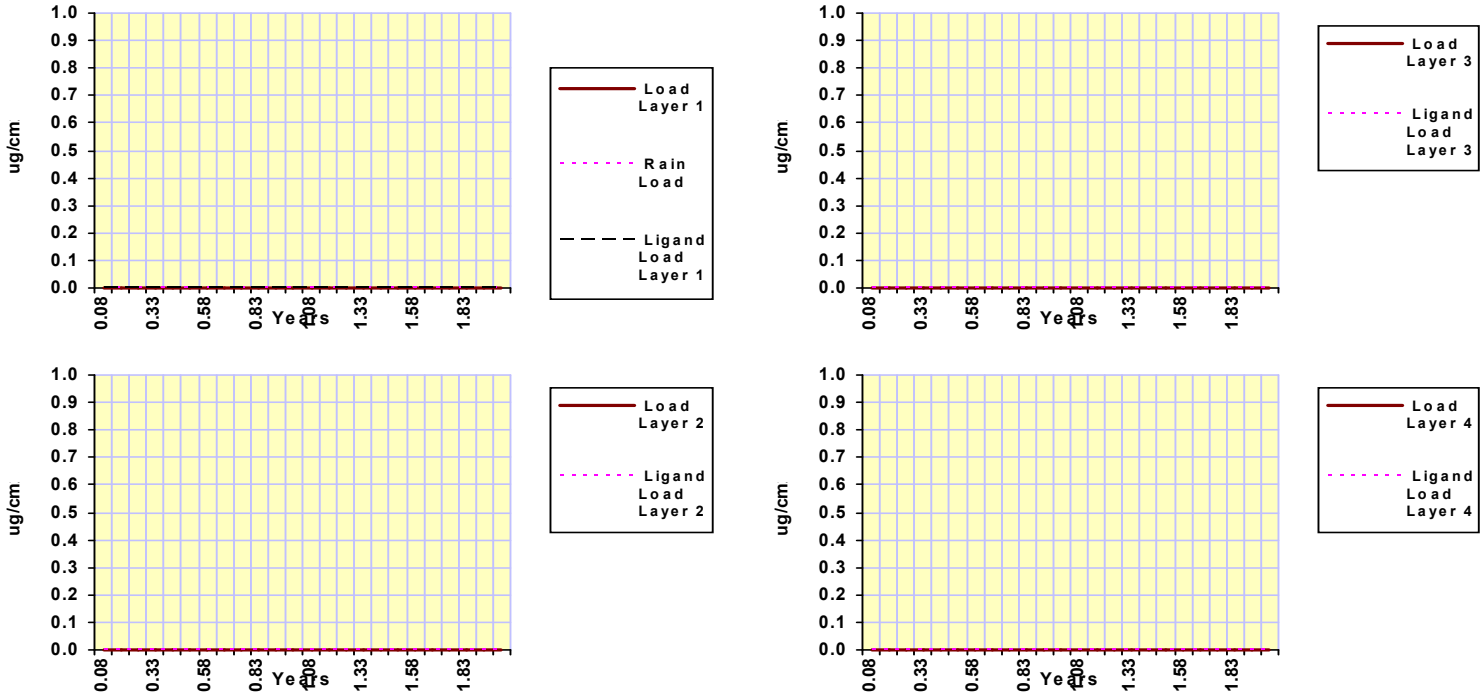
Area	cm^2	1.00E+5
	ft^2	107.64
Latitude	degrees	39.6
Spill Index		1

Chemical Parameters

Water Solubility	(µg/mL)	6.00E-2	**Moles Ligand / Moles Chemical**	0.00
Henry's Law	(M^3-atm/mol)	2.44E-2	**Ligand Molecular Weight** (g/mol)	0.00
K_{oc}	(µg/g)/(µg/mL)	0.00	**Base Hydrolysis Rate** (L/mol/day)	0.00
Valance	(g/mole)	0.00	**Ligand Dissociation Constant**	0.00
Air Diffusion Coefficient	(cm^2/sec)	3.07E-2	**Neutral Hydrolysis Rate** (L/mol/day)	0.00
Water Diffusion Coefficient	(cm^2/sec)	6.30E-6	**Acid Hydrolysis Rate** (L/mol/day)	0.00
Molecular Weight	(g/mol)	201.00		

Output File:
C:\SEVIEW63\MERC0321.OUT
Chemical File: Mercury (elemental) (Kd)
C:\SEVIEW63\HUDEPOHL\MERCURYE.CHM
Soil File: Sand
C:\SEVIEW63\HUDEPOHL\DEFAULTS.SOI
Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\MERC.APL

Sublayer Loads	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Layer 1 (ug/g)		1.20E+00	7.09E-01	1.28E-01						
Layer 2 (ug/g)		2.82E+00								
Layer 3 (ug/g)	4.44E+00		1.65E-01							
Layer 4 (ug/g)										



SESOIL Pollutant Cycle Report

Scenario Description:

SESOIL Output File: C:\SEVIEW63\MERC0321.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	1.239E+07	15.33
In Soil Air	1.986E+05	0.25
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	6.744E+07	83.47
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.261E+05	0.16
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	8.016E+07	99.20
Total Input	8.081E+07	
Input - Output	6.457E+05	

Maximum leachate concentration: 0.000E+00 **mg/l**

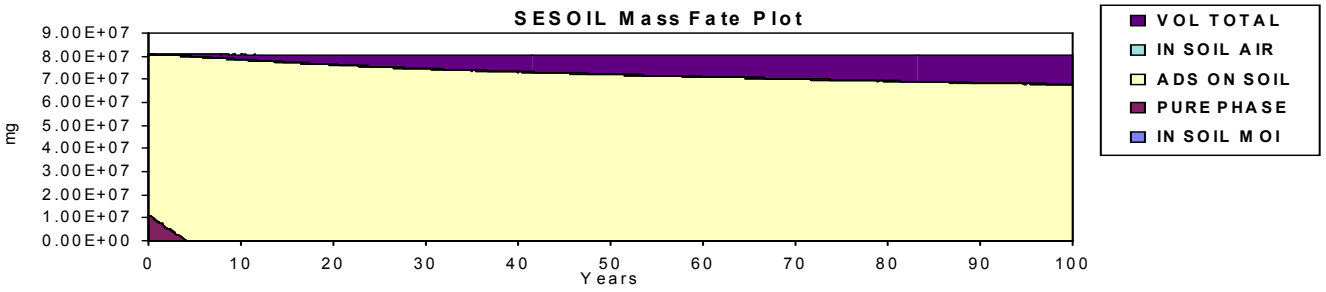
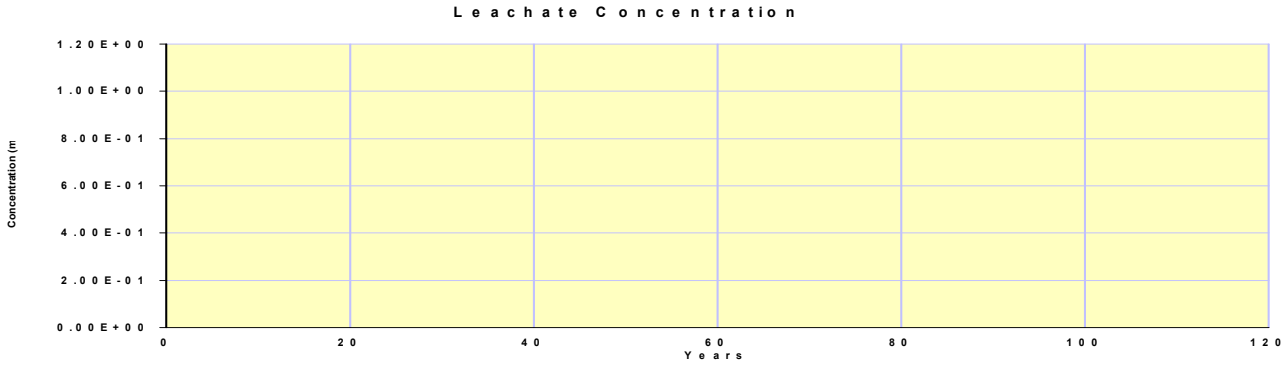
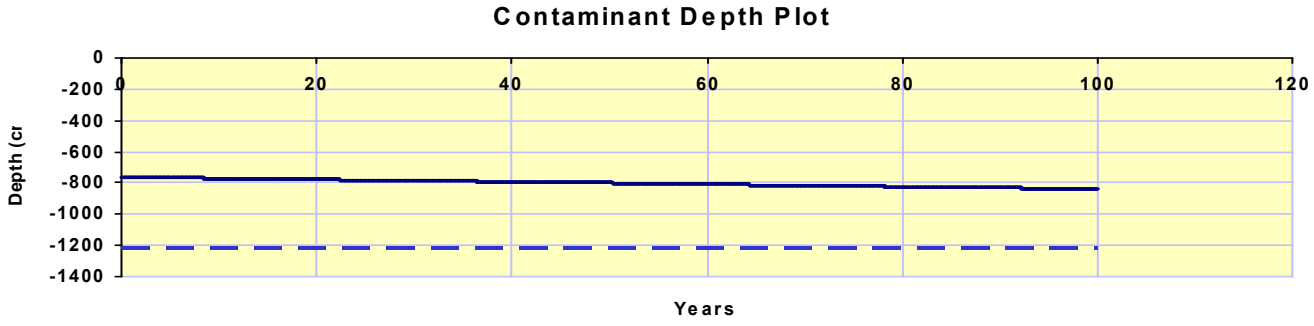
Climate File: CIN MUNI-LUNKEN FLD
C:\SEVIEW63\HUDEPOHL\CINMUNIL.CLM

Chemical File: Mercury (elemental) (Kd)
C:\SEVIEW63\HUDEPOHL\MERCURYE.CHM

Soil File: Sand
C:\SEVIEW63\HUDEPOHL\DEFAULTS.SOI

Application File: Smurfit Application Parameters
C:\SEVIEW63\HUDEPOHL\MERC.APL

Starting Depth: 762.50 **cm**

Ending Depth: 838.50 **cm**

Total Depth: 1220.00 **cm**