VICKERY

**VICKERY ENVIRONMENTAL, INC.**
3956 State Route 412, Vickery, OH 43464
Phone: 419/547-7791 Fax: 419/547-6144

**Priority Mail**
**Delivery Confirmation**
( 0312 2120 0001 5984 2444 )

January 18, 2013

Ms. Mary Setnicar
U.S. EPA Region V
77 W. Jackson Blvd.
Chicago, IL 60604
Mail Code – LR-8J

RE: 2012 TSCA Annual Reports
Vickery Environmental, Inc.
US EPA ID# OHD 020 273 819

US EPA RECORDS CENTER REGION 5
1005458

Dear Ms. Setnicar:

Enclosed is Vickery Environmental, Inc.'s (VEI) 2012 TSCA Annual Report. This report is submitted in accordance with the September 25, 1995 TSCA Approval Letter for the Closure Cell.

There was no PCB manifesting activity or PCB handling activity on site during 2012 that would require reporting under 40 CFR 761.180.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions regarding this matter, contact Mr. Brett Miller at 419-547-7791. x 3306

Copy to
Director OEPA
Scott Nally

Sincerely,
VICKERY ENVIRONMENTAL, INC.

Stephen C. Lonneman
General Manager

OEPA
Maryanne Miller ← On-Site
RCRA
CA NWDO PM
Bomba Green
(419)373-3148 – Dawn Pleiman
Mike Terpinski

SCL/bam

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

SEP 2 5 1995

R-19J

Mr. F. G. Nicar
General Manager
Chemical Waste Management, Inc.
3956 State Route 412
Vickery, Ohio 43464

Re: Modification of PCB Disposal
Approval dated July 22, 1988

Dear Mr. Nicar:

The March 16, 1994 request for revision of the July 22, 1988 Approval (Approval) for disposal of Polychlorinated Biphenyls (PCBs) has been reviewed by the United States Environmental Protection Agency (U.S. EPA), Region 5. The March 17, 1995 request for modifications to Closure Plans dated May 8, 1985 (Plan) and Responses to Closure Conditions dated July, 1988 (Response) have also been reviewed. The request was accompanied by communications dating thru July 20, 1995. The review included an evaluation of analytical methodologies for "chlorinated organics" and of groundwater around the PCB disposal cell. It has been determined that the Total Organic Halides (TOX) test is not a required test for Chlorinated Organics and that the U.S.EPA's SW-846 Method 8240 and Method 624 are both acceptable.

The U.S. EPA finds that the landfill disposal cell has been closed. Groundwater monitoring shows that the PCB disposal cell does not now present an unreasonable risk of injury to health or the environment from PCBs. Therefore, pursuant to regulations at 40 CFR 762.75(b)(6)(C) calling for, at minimum, semi-annual monitoring of the surface waters, the semi-annual detection monitoring frequency is acceptable for all water. Monthly production volumes of leachate and groundwater from the capillary barrier drain are still required.

In addition, well L-19A is an acceptable replacement for well L-19 because of the presence of traces of localized interfering contaminants not related to PCB disposal.

The modifications to the July 22, 1988 PCB Disposal Approval conditions are, respectively:

Printed on Recycled Paper

6) GROUNDWATER MONITORING:

Groundwater must be sampled for pH, specific conductance, chlorinated organics, and PCBs at least semi-annually at wells MW-14R, MW-15R, MW-16R, MW-20R, MW-30R, MW-36R, the Capillary Barrier Drain and at up-gradient wells MW-24R and MW-37R, as depicted in the 1994 TSCA Annual Report. If yearly flow direction changes, Chemical Waste Management, Inc. must annually re-evaluate the monitoring program and adjust it to suit the requirement to monitor groundwater upstream and downstream.

7) HYDRAULIC HEAD MONITORING:

At least semi-annually dual observation water elevation monitoring must be conducted for wells MW-14R, MW-15R, MW-16R, MW20-R, MW-30R, MW-36R, MW-24R and MW-37R and single observation water elevation monitoring must be conducted for wells L-14, T-14, L-15, L-16, L-17, T-17, L-18, T-18, L-19A, T-19, L-20, L-25, L-26, L-27, T-27, L-28, L-30 and up-gradient wells T-24, T-37, and L-39, as depicted in the 1994 TSCA Annual Report.

Dual observation monitoring is defined as determining water elevation twice; once in a recovered aquifer before pumping and once in the drawn down aquifer after pumping. If yearly flow direction changes significantly, Chemical Waste Management, Inc. must annually re-evaluate the monitoring program and adjust it to suit the requirement to monitor groundwater upstream and downstream.

8) SURFACE WATER MONITORING:

Surface water must be sampled for pH, specific conductance, chlorinated organics, and PCBs, at least semi-annually as long as PCBs are in the landfill disposal cell. The sampling must include Little Racoon Creek at location 1 (north of exit valve G1) and as depicted on drawing number 296, Figure 1, "Surface Water Sampling Stations," dated July 31, 1985, by Golder Associates, and in Meyers Ditch, 100 feet north of exit valve D1.

9) CAPILLARY BARRIER DRAIN MONITORING:

Fluids in the Capillary Barrier Drain must be sampled semi-annually for pH, specific conductance, PCBs and chlorinated organics. The volume of fluid collected from the capillary barrier drain must be determined and recorded monthly.

The approval has been updated to reflect these and other changes. If you have any questions, please contact Stephen M. Johnson, CPG, of my staff at (312) 886-1330.

Sincerely yours,

Valdas Adamkus
Regional Administrator

Enclosure

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION 5**

| | | |
|---|---|---|
| IN THE MATTER OF:<br>CHEMICAL WASTE MANAGEMENT, INC.<br>VICKERY, OHIO | )<br>)<br>)<br>) | APPROVAL TO DISPOSE OF POLYCHLORINATED BIPHENYLS |

## AUTHORITY

This approval is issued pursuant to Section 6(e)(1) of the Toxic Substances Control Act (TSCA) of 1976, Public Law No. 94-469, and the Federal Polychlorinated Biphenyl (PCB) Regulations, 40 Code of Federal Regulations (CFR) Section (§) 761.75. Any and all information required to be maintained or submitted pursuant to this approval is not subject to the Paperwork Reduction Act of 1980, 44 U.S.C 3501 et seq., because it is information collected by the United States Environmental Protection Agency (U.S. EPA) from a specific individual or entity for the purpose of assuring compliance with this approval.

## BACKGROUND

Section 6(e)(1)(A) of the Toxic Substances Control Act (TSCA) requires that U.S. EPA promulgate rules for the disposal of polychlorinated biphenyls (PCBs). The rules implementing Section 6(e)(1)(A) were published in the Federal Register of May 31, 1979 (44 FR 31514) and recodified in the Federal Register of May 6, 1982 (47 FR 19527). Those rules require, among other things, that various types of PCBs and PCB Articles be disposed of in U.S. EPA-approved landfills (40 CFR § 761.75), incinerators (40 CFR § 761.60) or by alternative methods (40 CFR § 761.60[e]) that demonstrate a level of performance equivalent to U.S. EPA-approved incinerators or high efficiency boilers. The May 31, 1979 Federal Register also designated Regional Administrators as the approval authority for PCB disposal facilities.

## FINDINGS

1. Chemical Waste Management, Inc., (CWM) disposes of PCBs in a chemical waste landfill at their facility located at 3956 State Route 412, Vickery, Ohio.

2. CWM submitted information concerning the landfill dated September 13, 1984, November 1, 1984, March 12, 1985, April 29, 1985, May 8, 1985, May 23, 1985, May 31, 1985, June 1, 1985, June 27, 1985, August 5, 1985, August 8, 1985, November 20, 1985, January 13, 1986, and October 2, 1987. Together, the information constitutes a PCB chemical waste landfill disposal application under TSCA, 40 CFR § 761.75.

   CWM submitted information requesting a modification to the approval letter of July 22, 1988. The response included a review of the following documents:

| | |
|---|---|
| July 22, 1988: | TSCA approval letter |
| July 24, 1990: | Investigation at Well L-19 |
| March 25, 1992: | Letter report on L-19 monitoring well chemical contamination and replacement |
| August 4, 1993: | Ohio Closure Certification letter |
| March 16, 1994: | Request for modification to TSCA approval letter of 1988 |
| November 22, 1994: | Corrected Monitoring Well Depths |
| March 17, 1995: | Request for TSCA approval modification |
| April 5, 1995: | Request for termination of Consent Agreement and Final Order for TSCA/RCRA issues |
| May 5, 1995: | Supporting hydrogeologic information |
| May 9, 1995: | 1985 CAFO and 1990 Consent Decree |
| June 22, 1995: | 1994 TSCA Annual Report |
| June 27, 1995: | Unmanifested waste memo from USEPA OPPTS |
| July 3, 1995: | USEPA response to termination of Consent Agreement and Final Order for TSCA/RCRA issues |
| July 20, 1995: | Revision of March 17, 1995 request to change monitoring plan and additional information |

3. The Chemical waste landfill design features include a groundwater diversion/barrier drain, primary and secondary leachate collection systems, a bottom liner system (including two 60 mil synthetic liners and a 3 foot secondary clay liner), and a final cover system which includes seeded and fertilized topsoil, a recompacted clay liner, and 40 mil synthetic liner. The landfill configuration consists of a cell 900 feet long by 600 feet wide which can accommodate up to 410,000 cubic yards of PCB contaminated material.

4. There is a large truck wash station on the property that is supplied by a local water well developed in the bedrock aquifer. Daily drawdown from that aquifer is often sufficient to affect the detection wellpoint system water levels observed in that aquifer.

5. Collection of groundwater from the groundwater diversion/ barrier drain produces an inward hydraulic gradient immediately below the landfill.

6. The chemical waste landfill, as designed, will comply with all applicable requirements of 40 CFR § 761.75, and will not present an unreasonable risk of injury to human health or the environment from PCBs.

## CONDITIONS OF APPROVAL

7. APPLICABILITY:

This authorization applies only to the submitted secure landfill design dated September 13, 1984, November 1, 1984, March 12, 1985, April 29, 1985, May 8, 1985, May 23, 1985, May 31, 1985, June 1, 1985, June 27, 1985, August 5, 1985, August 8, 1985, November 20, 1985, January 13, 1986 and October 2, 1987, under TSCA 40 CFR § 761.75, and to the one time disposal of PCB contaminated material generated by the remedial actions required pursuant to the April 5, 1985 Consent Decree between CWM and U.S. EPA, and the May 22, 1984 Consent Decree between CWM and the Ohio Environmental Protection Agency (OEPA).

8. RCRA COORDINATION:

In order for this approval to be effective, CWM must comply with all provisions of the RCRA closure approval letter dated March 30, 1988, and the August 4, 1993 Closure Certification letter from the State of Ohio.

9. MATERIALS AUTHORIZED FOR DISPOSAL:

Only materials generated by the on-site remediation program may be placed in the on-site secure landfill. Acceptance and placement of any other toxic or hazardous wastes from other sites within the landfill authorized by this document, either within or outside CWM, are strictly prohibited.

10. FUTURE USE OF SITE UNDER TSCA:

The future use, under TSCA, of CWM's Vickery site for the land disposal of PCBs obtained from outside of the Vickery facility is strictly prohibited.

11. FINANCIAL ASSURANCE:

The CWM Vickery facility is presently authorized under RCRA Part 265 (Interim Status). As such, the monetary guarantee for maintenance, monitoring, and any required remediation of

the TSCA chemical waste landfill authorized through this document would be secured through the financial requirements under subpart H of RCRA, 40 CFR Part 265.

12. GROUNDWATER MONITORING:

Groundwater must be sampled for pH, specific conductance, chlorinated organics, and PCBs at least semi-annually at wells MW-14R, MW-15R, MW-16R, MW-20R, MW-30R, MW-36R, the Capillary Barrier Drain and at up-gradient wells MW-24R and MW-37R as depicted in the 1994 TSCA Annual Report and in drawing number 302, Figure 1, "Proposed Monitoring Well Locations and Screen Intervals", dated October 17, 1985, by Golder Associates. If yearly flow direction changes, Chemical Waste Management, Inc. must annually re-evaluate the monitoring program and adjust it to suit the requirement to monitor groundwater upstream and downstream.

13. HYDRAULIC HEAD MONITORING:

At least semi-annually dual observation water elevation monitoring must be conducted for wells MW-14R, MW-15R, MW-16R, MW20-R, MW-30R, MW-36R, MW-24R and MW-37R and single observation water elevation monitoring must be conducted for wells L-14, T-14, L-15, L-16, L-17, T-17, L-18, T-18, L-19A, T-19, L-20, L-25, L-26, L-27, T-27, L-28, L-30 and up-gradient wells T-24, T-37, and L-39 as depicted in the 1994 TSCA Annual Report.

Dual observation monitoring is defined as determining water elevation twice; once in a recovered aquifer before pumping and once in the aquifer after routine pumping but before recovery. If yearly flow direction changes significantly, Chemical Waste Management must annually re-evaluate the monitoring program and adjust it to suit the requirement to monitor groundwater upstream and downstream.

14. SURFACE WATER MONITORING:

Surface water must be sampled for pH, specific conductance, chlorinated organics, and PCBs, at least semi-annually as long as PCBs are in the landfill disposal cell. The sampling must include Little Racoon Creek at location 1 (north of exit valve G1) and as depicted on drawing number 296, Figure 1, "Surface Water Sampling Stations", dated July 31, 1985, by Golder Associates, and in Meyers Ditch, 100 feet north of exit valve D1.

15. CAPILLARY BARRIER DRAIN MONITORING:

Fluids in the Capillary Barrier Drain must be sampled semi-annually for pH, specific conductance, PCBs and chlorinated

organics. The volume of fluid collected from the capillary barrier drain must be determined and recorded monthly.

16. LEACHATE MONITORING AND CHARACTERIZATION:

CWM must conduct monthly monitoring of the quantity and physiochemical characteristics of the leachate produced in the primary and secondary leachate collection systems. All semi-annual samples must be analyzed for pH, PCBs, specific conductance and chlorinated organics. The hydraulic Head within the primary and/or secondary leachate collection systems must not be allowed to exceed 1 foot.

17. LEACHATE HANDLING, STORAGE AND DISPOSAL:

Leachate removed after placement of the interim soil cover from the primary and/or secondary leachate collection systems is defined as "PCB leachate" until a representative sample, upon analysis, is found to contain a PCB concentration less than 50 ppm measured on a wet weight basis. A representative leachate sample is defined as a sample containing an appropriate percentage of all phases present in the leachate. Waste water from TSCA cells found to be less than 50 ppm but greater than 1 ppm must be handled and stored as prescribed under TSCA and may be disposed of as follows:

- in accordance with 40 CFR § 761.60, or

- by means of the on-site, permitted UIC wells after testing or filtration shows PCB concentrations below 50.0 ppm.

18. REGIONAL NOTIFICATION AND REMEDIATION:

CWM must notify the Regional Administrator in writing within seven days of receipt of any PCB analytical results from any groundwater monitoring, capillary barrier drain, or stream sampling location in which the quantity of PCBs exceeds 0.5 part per billion. Upon verification, the U.S. EPA must determine an appropriate response, if any, and may require a complete sampling and monitoring program capable of determining the source and extent of the PCB release. If found, CWM must undertake the control and remediation of the PCB source. A control and remediation plan reviewing the proposed techniques for countering the further spread of PCB materials, and the feasibility of their containment and/or removal, must be prepared. CWM must submit the control and remediation plan to the Regional Administrator of Region 5, and the State of Ohio, for selection of the control alternative to be implemented.

19. SAFETY AND HEALTH:

Any accident or lost-time personal injury occurring as a result of PCB land disposal must be reported in writing to the Regional Administrator of Region 5 by the end of the next business day. CWM must take all necessary precautionary measures to ensure that the operation of the landfill, approved under this authorization, is in compliance with the applicable safety and health standards, as required by Federal, State and local regulations and ordinances.

20. FACILITY SECURITY:

The CWM chemical waste landfill approved through this authorization must be secured as provided under 40 CFR § 761.75(b)(9).

21. SITE ACCESS:

CWM must allow U.S. EPA employees, contractors, or its agents access to inspect the chemical waste landfill, records and/or to collect samples at any reasonable time. This in no way limits U.S.EPA authority under TSCA, RCRA, or any other Federal statute administered by U.S. EPA.

22. OWNERSHIP TRANSFER:

Should CWM transfer the ownership of the chemical waste landfill approved through this authorization, CWM must comply with the provisions of 40 CFR § 761.75(c)(7).

23. AGENCY APPROVALS/PERMITS:

Prior to commencing operations, CWM must obtain any necessary Federal, State or local permits or approvals. During the course of operations, CWM must comply with all conditions and requirements of such permits or approvals.

24. PERMIT SEVERABILITY:

The conditions of this approval are severable, and if any provision of this approval or any application of any provision is held invalid by a court of competent jurisdiction, the remainder of this approval must not be affected thereby.

25. ANNUAL REPORT:

An annual report must be sent to the Regional Administrator which will include the following information:

a. all analytical data from the groundwater, surface water, primary leachate collection system, secondary leachate collection system, capillary barrier drain and stream sampling locations;

b. volume of leachate produced monthly in the primary and secondary leachate collection systems;

c. the treatment method and final disposal destination of all leachate obtained from the primary and/or secondary leachate collection systems that is greater than 1 ppm PCBs;

d. volume of fluids produced monthly in the capillary barrier drain;

e. water table map showing groundwater potentiometric contours based on groundwater levels taken during each sampling event at each sampling location; and

f. such additional information as may be required by Order of the Regional Administrator.

The annual report will be due no later than July 1, for the year ending December 31. In addition, CWM must comply with all record generation and retention and reporting requirements as specified in 40 CFR §§ 761.180(d) and (f).

WAIVERS

26. 40 CFR § 761.75(b)(3) states that "the bottom of the landfill liner system or natural in-place soil barrier must be at least 50 feet from the historical high water table." While the hydrologic conditions of the Chemical Waste Management, Inc. site do not satisfy this requirement, the landfill will possess a secondary leachate collection system (leak detection system), groundwater diversion/barrier drain and an extensive system of monitoring wells. These systems will prevent the bottom of the landfill from being in the saturated zone and allow early detection should the facility require remediation.

27. 40 CFR §§ 761.75(b)(1)(iv) and (v), requires the soils at the landfill site possess a Liquid Limit value greater than 30 and a Plasticity Index rating greater than 15. The CWM site soils have a Liquid Limit between 25 and 45 (32 average) and a Plasticity Index between 8 and 22 (12 average). While the soils marginally conform to these requirements, the low vertical permeability of the site soils as well as the design of the bottom liner system (two 60 mil synthetic liners and a minimum 3 foot clay liner), will compensate for these site inadequacies.

## APPROVAL

28. Approval to dispose of PCBs is hereby granted to Chemical Waste Management, Inc., of Oak Brook, Illinois, subject to the conditions and terms of this approval document and consistent with the materials and data included in the application filed by the company. U.S. EPA, Region 5, reserves the right to impose additional conditions when it has reason to believe that the continued operation of the facility presents an unreasonable risk to public health or the environment.

    Any departure from the conditions of this approval or the terms expressed in the application must receive prior written authorization of the Regional Administrator. In this context, "application" must be defined as all data and materials which have been received by this Agency from CWM regarding their proposed chemical waste landfill in Vickery, Ohio.

29. This approval to dispose of PCBs does not relieve CWM of the responsibility to comply with all applicable Federal, State and local regulations. Violation of any applicable Federal regulations will be subject to enforcement action, which may include termination of this approval. This approval may be rescinded at any time for failure to comply with the terms and conditions herein, or for any other reasons which the Regional Administrator deems necessary to protect the public health and the environment.

30. Chemical Waste Management of Oak Brook, Illinois, must be responsible for the actions of any authorized landfill operator, and must assume full responsibility for compliance with all applicable Federal, State and local regulations including, but not limited to, any advance or emergency notification and accident requirements.

Valdas V. Adamkus
Regional Administrator
U.S. Environmental Protection Agency
Region 5

9/25/95
Date

# 2012 TSCA ANNUAL REPORT

(AS REQUIRED BY TSCA APPROVAL LETTER 9-25-95)

VICKERY

**VICKERY ENVIRONMENTAL, INC**
**3956 STATE ROUTE 412**
**VICKERY, OHIO 43464**
**EPA ID# OHD 020 273 819**

## REPORT SUMMARY

This report is submitted in accordance with the July 22, 1988 TSCA Approval of the Closure Cell, as modified September 25, 1995.

There was no PCB manifesting activity or PCB handling activity onsite during 2012 that would require reporting under 40 CFR 761.180.

In accordance with Paragraph 25 of the September 25, 1995 TSCA Cell Approval Letter, this report is a summary of the analytical data generated from the following areas:

a. Groundwater monitoring, leachate collection system monitoring, and capillary barrier drain monitoring.

b. The monthly volumes generated in the leachate collection system.

c. Treatment method and final disposal destination of all leachate obtained from the primary and/or secondary leakage collection system that is greater than 1 ppm PCBs;

d. Monthly volumes of fluids generated in the capillarity barrier drain.

e. Water level contour maps from the groundwater monitoring events. Dual observations of the water elevation were conducted for the bedrock monitoring wells.

The groundwater monitoring wells, capillary barrier drain and leachate collection systems are sampled on a semi-annual basis. No PCB's were detected in any of the leachate collection system, groundwater monitoring wells, or the barrier drain. The analytical data was included in original report submittal.

The Closure Cell Leachate Monitoring results are summarized in the following tables. The analytical data is included in the back of the report under the tab entitled "Closure Cell Leachate Analytical Data."

## CLOSURE CELL LEACHATE MONITORING

| SAMPLE LOCATION | DATE | pH (su) | SPEC. COND. (µmho) | CHLORINATED ORGANICS* (µg/l) | PCB 1016 (µg/l) | PCB 1221 (µg/l) | PCB 1232 (µg/l) | PCB 1242 (µg/l) | PCB 1248 (µg/l) | PCB 1254 (µg/l) | PCB 1260 (µg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SP | 4/09/2012 | 7.33 | 20,400 | * | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| SS | 4/09/2012 | 6.90 | 5,770 | * | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| NP | 10/25/2012 | 7.36 | 21,700 | * | <10.0 | <10.0 | <20.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| NS | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** |

** Sample from the North Secondary unit could not be obtained due to low water level.

**KEY**: * - See Section entitled "Closure Cell Leachate Monitoring Analytical Data" for this information.
NP - North Primary Sump NS - North Secondary Sump
SP - South Primary Sump SS - South Secondary Sump
Primary and secondary sumps are analyzed semi-annually alternating between north and south sumps.

## 2012 MONTHLY VOLUMES (GALLONS) PRODUCED BY CLOSURE CELL

| MONTH | LEACHATE COLLECTION SYSTEMS | | |
|---|---|---|---|
| | PRIMARY | SECONDARY | BARRIER DRAIN |
| January | -0- | -0- | 120,476 |
| February | 1,838 | 963 | 66,270 |
| March | -0- | -0- | 136,534 |
| April | -0- | 369 | 3,651 |
| May | 2,264 | -0- | 8,427 |
| June | -0- | -0- | -0- |
| July | 2,067 | -0- | -0- |
| August | -0- | -0- | 3,606 |
| September | -0- | -0- | 3,255 |
| October | -0- | -0- | 7,200 |
| November | -0- | -0- | 16,043 |
| December | 2,166 | -0- | 48,968 |
| **2012 TOTALS:** | **8,335** | **1332** | **414,430** |

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## TREATMENT AND FINAL DISPOSAL DESTINATION OF LEACHATE >1ppm PCB's

There were no detections of PCB's in the leachates > 1 ppm

LABORATORY ANALYSIS REQUEST FORM

REQUEST # 27102 SUBMITTER: BAM DATE: 04/09/12 TIME: 11 : 40 AM/PM

FOR TANK BLENDS:

SAMPLE TICKET # SAMPLE TICKET #

T-_____ _____ to T-_____ _____

FOR HIGH mV DIRECT (GRAB SAMPLE)

SAMPLE TICKET # SAMPLE TICKET #

HIGH mV _____ FOLLOWING T- _____

ANALYTICAL FOR:

GENERATOR: VEI PROFILE #: _____

SAMPLE TICKET #: 12-2772 RAIL CAR #: _____

| TEST | DATA : ANALYST : DATE | TEST | DATA : ANALYST : DATE |
|---|---|---|---|
| CN DRAGER (ppm) | _____ : _____ : __/__/__ | RADIATION | _____ : _____ : __/__/__ |
| COMPATIBILITY | _____ : _____ : __/__/__ | S DRAGER (ppm) | _____ : _____ : __/__/__ |
| FLAMMABILITY | _____ : _____ : __/__/__ | SPECIFIC GRAVITY | 1.015 : AMW : 4/9/12 |
| FLASHPOINT (C) | _____ : _____ : __/__/__ | TEMPERATURE (°C) | 8°C : AMW : 4/9/12 |
| MILLIVOLT (REDOX) | _____ : _____ : __/__/__ | TSS CENTRIFUGE (%) | _____ : _____ : __/__/__ |
| PCB GC/ECD (ppm) | <0.5 : AMW : 4/9/12 | VOA -LIQUID GC/FID (%) | _____ : _____ : __/__/__ |
| pH METER | 7.53 : AMW : 4/9/12 | | |
| pH PAPER | _____ : _____ : __/__/__ | | |
| DESCRIPTION: | see below: _____ : __/__/__ | | |

VISCOSITY: (LV)(MV)(HV) \ TURBIDITY: (CLEAR)(CLOUDY)(OPAQUE) \ COLOR: _____

STATE: (LIQUID)(SEMI-SLUDGE)(SOLID) \ LAYERS: (SINGLE)(BYLAYER)(MULTILAYER) \ ODOR: _____

COMMENTS: South Primary Conductivity = 21,400 umhos/cm

BLEND COMPATIBILITY:

ANALYST: _____ DATE: __/__/__

RECEIVING TANK #___/_____ GALLONS** TRANSFER TANK #___/_____ GALLONS

** *Receiving Tank must have 80,000 gallons or more for Nitric Blends. Nitric blends limited to 10,000 gallons.* **

(_____ mV @ ____ C) _____ GALLONS (_____ mV @ ____ C) _____ GALLONS

REDOX POTENTIAL (_____ mV @ ___ C) RECOMMENDED RATIO ( ___ : ___ )

APPROVAL PERSON: _____ DATE: __/__/__ (AS PER: ____ DATE: __/__/__)

FILTERABILITY: SAMPLE TYPE: _____

SAMPLE SIZE _____ MLS FILTERTIME: _____

FILTER SIZE _____ MICRON COMMENTS: _____

TRANSFER TANK #: _____ RECEIVING TANK #: _____

START TIME: ____:____ AM/PM STOP TIME: ____:____ AM/PM

INITIAL LEVEL: _____% _____ GALLONS FINAL LEVEL: _____% _____ GALLONS

TRANSFERRED AMOUNT: _____ GALLONS

BLENDING OPERATOR: _____ DATE: __/__/__ MANAGER OF OPERATIONS: _____ DATE: __/__/__

COMPLETENESS REVIEW: _____ DATE: _____

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

**Lab Project #** L12-12986
**Received:** 04/11/2012
**Reported:** 04/24/2012
**Date/Time Sampled:** 04/09/2012 09:00
**Sampled By:**
**Sampled Matrix:** Liquid
**Containers:** 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13976-01**
Lab Sample # **L12-12986-01**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Extraction for Pesticides/PCBs | * | Y/N | | EPA-608 | JW | 04/13/2012 | 04/19/2012 |
| PCB-1016 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| PCB-1221 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| PCB-1232 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| PCB-1242 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| PCB-1248 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| PCB-1254 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| PCB-1260 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| (Surrogate) TCMX | 53.4 (D-158.7) | % | | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| (Surrogate) DCB | 60.4 (1.2-114.9) | % | | EPA-608 | MBU | 04/13/2012 | 04/19/2012 |
| Acetone | <100 | ug/L | 100 | SW-8260B | MS | | 04/12/2012 |
| Acetonitrile | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Acrolein | <500 | ug/L | 500 | SW-8260B | MS | | 04/12/2012 |
| Acrylonitrile | <500 | ug/L | 500 | SW-8260B | MS | | 04/12/2012 |
| Allyl Alcohol | <20000 | ug/L | 20000 | SW-8260B | MS | | 04/12/2012 |
| Allyl Chloride | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Benzene | <40 | ug/L | 40 | SW-8260B | MS | | 04/12/2012 |
| Bromodichloromethane (Dichlorobromomethane) | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| Bromoform | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| Carbon Disulfide | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Carbon Tetrachloride | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Chlorobenzene | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| Chloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lana L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

Lab Project # L12-12986
Received: 04/11/2012
Reported: 04/24/2012
Date/Time Sampled: 04/09/2012 09:00
Sampled By:
Sampled Matrix: Liquid
Containers: 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13976-01**
Lab Sample # **L12-12986-01**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2-Chloroethyl Vinyl Ether | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Chloroform | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dibromo-3-Chloropropane (DBCP) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Dibromochloromethane (Chlorodibromomethane) | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dibromoethane (EDB) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,3-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,4-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| cis-1,4-Dichloro-2-butene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| trans-1,4-Dichloro-2-butene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Dichlorodifluoromethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,1-Dichloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dichloroethane | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 1,1-Dichloroethene (1, 1-dichloroethylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| trans-1,2-Dichloroethene (1, 2-dichloroethylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dichloropropane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| cis-1,3-Dichloropropene (1, 3-dichloropropylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| trans-1,3-Dichloropropene (1, 3-dichloropropylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,4-Dioxane | 2290 | ug/L | 1500 | SW-8260B | MS | | 04/12/2012 |
| Ethanol | <20000 | ug/L | 20000 | SW-8260B | MS | | 04/12/2012 |
| Ethyl Methacrylate | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Ethylbenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 2-Hexanone (MBK) | <500 | ug/L | 500 | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lane L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

**Lab Project #** L12-12986
**Received:** 04/11/2012
**Reported:** 04/24/2012
**Date/Time Sampled:** 04/09/2012 09:00
**Sampled By:**
**Sampled Matrix:** Liquid
**Containers:** 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13976-01**
Lab Sample # **L12-12986-01**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Isobutyl Alcohol | <20000 | ug/L | 20000 | SW-8260B | MS | | 04/12/2012 |
| Methacrylonitrile | <50.0 | ug/L | 50.0 | SW-8260B | MS | | 04/12/2012 |
| Methyl Bromide (Bromomethane) | <20.0 | ug/L | 20.0 | SW-8260B | MS | | 04/12/2012 |
| Methyl Chloride (Chloromethane) | <20.0 | ug/L | 20.0 | SW-8260B | MS | | 04/12/2012 |
| Methyl Ethyl Ketone (2-Butanone) | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Methyl Iodide | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Methyl Methacrylate | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Methylene Bromide | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Methylene Chloride | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 4-Methyl-2-Pentanone (MIBK) | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Pentachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Propionitrile | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Styrene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Tetrachloroethylene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,1,1,2-Tetrachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,1,2,2-Tetrachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Toluene | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 1,1,1-Trichloroethane | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 1,1,2-Trichloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Trichloroethylene (Trichloroethene) | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| Trichlorofluoromethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2,3-Trichloropropane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| m,p-Xylene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| o-Xylene | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| Xylenes, Total | <60.0 | ug/L | 60.0 | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lane L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

**Lab Project #** L12-12986
**Received:** 04/11/2012
**Reported:** 04/24/2012
**Date/Time Sampled:** 04/09/2012 09:00
**Sampled By:**
**Sampled Matrix:** Liquid
**Containers:** 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13976-01**
Lab Sample # **L12-12986-01**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Vinyl Acetate | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| Vinyl Chloride | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| (Surrogate) 1,2-Dichloroethane d4 | 95.9 (53.6-137.7) | % | | SW-8260B | MS | | 04/12/2012 |
| (Surrogate) Toluene d8 | 97.4 (69.7-120.9) | % | | SW-8260B | MS | | 04/12/2012 |
| (Surrogate) 4-Bromofluorobenzene | 86.5 (31.3-173.6) | % | | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lane L Jackson

1/1

**Alloway**
Your Resource for Defensible Data

Project: M12-13976


○ 1101 North Cole Street, Lima, OH 45805
(P) 419-223-1362 (F) 419-227-3792
○ 1776 Marion-Waldo Road, Marion OH 43302
(P) 740-389-5991 (F) 740-389-1481
○ 508 Bissman Court, Mansfield, OH 44903
(P) 419-525-1644 (F) 419-524-5575


| Report To: | Invoice To (If Different): | Notes/Comments |
|---|---|---|
| Name: | Name: | Sub 826C to Lima. |
| Company: | Company: | #608 |
| Address: | Address: | |
| | PO#: | |
| Phone #: | Fax #: | |
| E-mail: | | |

| | |
|---|---|
| Project Name | |
| Sampler | (Print) (Signature) |

Matrix Codes:
ww - wastewater, gw - groundwater, dw- drinking water, s - solid, w - water, oil - oil, sg - sludge, o - other

| | Customer Sample ID / Sample Location | Sample Date | Sample Time | Comp. | Grab | Matrix | Number of Containers | Analysis Required | Alloway Lims # (For Lab Use Only) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4-9-12 | 090C | | | | | | 01 |
| 2 | | | | | | | | | ↓ |
| 3 | | | | | | | | AW 4/11/12 | 02 |
| 4 | | | | | | | | | ↓ |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |

| | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

Method of Sample Delivery:
UPS/FedEx ☐ Client Delivery ☐
Other _____ Alloway Pick-up ☐

Received for Laboratory By: (Signature) Amanda Welt — 4-11-12 — 090C

Sample Receiving (For Lab Use Only)
Ice Present? Y ☒ N ☐
Proper Preservation? Y ☐ N ☐
Container Temperature: 2.6

Priority (for Client use)
Note: Rush Charges May Apply
24 Hrs ☐
48 Hrs ☐
3 Working Days ☐
Routine (5-10 Working days) ☐

White - Lab Copy Yellow - Client Copy

LABORATORY ANALYSIS REQUEST FORM

REQUEST # 27109 SUBMITTER: BAM DATE: 4/9/12 TIME: 11 : 42 AM/PM

FOR TANK BLENDS:

SAMPLE TICKET # SAMPLE TICKET #

T-_____ _____ to T-_____ _____

FOR HIGH-TV DIRECT (GRAB SAMPLE)

SAMPLE TICKET # SAMPLE TICKET #

HIGH-TV _____ FOLLOWING T- _____

ANALYTICAL FOR:

GENERATOR: VEI PROFILE #: _____

SAMPLE TICKET #: 12-2773 RAIL CAR #: _____

| TEST | DATA : ANALYST : DATE | TEST | DATA : ANALYST : DATE |
|---|---|---|---|
| CN DRAGER (ppm) | _____ : _____ : __/__/__ | RADIATION | _____ : _____ : __/__/__ |
| COMPATIBILITY | _____ : _____ : __/__/__ | S DRAGER (ppm) | _____ : _____ : __/__/__ |
| FLAMMABILITY | _____ : _____ : __/__/__ | SPECIFIC GRAVITY | 1.005 : AHW : 4/9/12 |
| FLASHPOINT (C) | _____ : _____ : __/__/__ | TEMPERATURE (°C) | 7 : AHW : 4/9/12 |
| MILLIVOLT (REDOX) | _____ : _____ : __/__/__ | TSS CENTRIFUGE (%) | _____ : _____ : __/__/__ |
| PCB GC/ECD (ppm) | <.25 : AHW : 4/9/12 | VOA -LIQUID GC/FID (%) | _____ : _____ : __/__/__ |
| pH METER | 10.90 : AHW : 4/9/12 | | |
| pH PAPER | _____ : _____ : __/__/__ | | |
| DESCRIPTION: | see below: _____ : __/__/__ | | |

VISCOSITY: (LV)(MV)(HV) \ TURBIDITY: (CLEAR)(CLOUDY)(OPAQUE) \ COLOR: _____

STATE: (LIQUID)(SEMI-SLUDGE)(SOLID) \ LAYERS: (SINGLE)(BYLAYER)(MULTILAYER) \ ODOR: _____

COMMENTS: South Secondary Conductivity = 5.77 C[illegible]

BLEND COMPATIBILITY:

ANALYST: _____ DATE: __/__/__

RECEIVING TANK # __/_____ GALLONS** TRANSFER TANK # __/_____ GALLONS

*** Receiving Tank must have 80,000 gallons or more for Nitric Blends. Nitric blends limited to 10,000 gallons.***

(_____ mV @ ____ C) _____ GALLONS (_____ mV @ ____ C) _____ GALLONS

REDOX POTENTIAL (_____ mV @ ____ C) RECOMMENDED RATIO ( ____ : ____ )

APPROVAL PERSON: _____ DATE: __/__/__ (AS PER: ____ DATE: __/__/__)

FILTERABILITY: SAMPLE TYPE: _____

SAMPLE SIZE _____ MLS FILTERTIME: _____

FILTER SIZE _____ MICRON COMMENTS: _____

TRANSFER TANK #: _____ RECEIVING TANK #: _____

START TIME: ____ : ____ AM/PM STOP TIME: ____ : ____ AM/PM

INITIAL LEVEL: _____ % _____ GALLONS FINAL LEVEL: _____ % _____ GALLONS

TRANSFERRED AMOUNT: _____ GALLONS

BLENDING OPERATOR: _____ DATE: __/__/__ MANAGER OF OPERATIONS: _____ DATE: __/__/__

COMPLETENESS REVIEW: _____ DATE: _____

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

**Lab Project #** L12-12986
**Received:** 04/11/2012
**Reported:** 04/24/2012
**Date/Time Sampled:** 04/09/2012 08:50
**Sampled By:**
**Sampled Matrix:** Liquid
**Containers:** 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13977-01**
Lab Sample # **L12-12986-02**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Extraction for Pesticides/PCBs | * | Y/N | | EPA-608 | JW | 04/13/2012 | 04/16/2012 |
| PCB-1016 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| PCB-1221 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| PCB-1232 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| PCB-1242 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| PCB-1248 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| PCB-1254 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| PCB-1260 | <5.00 | ug/L | 5.00 | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| (Surrogate) TCMX | 46.7 (0-158.7) | % | | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| (Surrogate) DCB | 86.6 (1.2-114.9) | % | | EPA-608 | MBU | 04/13/2012 | 04/16/2012 |
| Acetone | <100 | ug/L | 100 | SW-8260B | MS | | 04/12/2012 |
| Acetonitrile | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Acrolein | <500 | ug/L | 500 | SW-8260B | MS | | 04/12/2012 |
| Acrylonitrile | <500 | ug/L | 500 | SW-8260B | MS | | 04/12/2012 |
| Allyl Alcohol | <20000 | ug/L | 20000 | SW-8260B | MS | | 04/12/2012 |
| Allyl Chloride | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Benzene | <40 | ug/L | 40 | SW-8260B | MS | | 04/12/2012 |
| Bromodichloromethane (Dichlorobromomethane) | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| Bromoform | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| Carbon Disulfide | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Carbon Tetrachloride | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Chlorobenzene | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| Chloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lane L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

**Lab Project #** L12-12986
**Received:** 04/11/2012
**Reported:** 04/24/2012
**Date/Time Sampled:** 04/09/2012 08:50
**Sampled By:**
**Sampled Matrix:** Liquid
**Containers:** 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13977-01**
Lab Sample # **L12-12986-02**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2-Chloroethyl Vinyl Ether | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Chloroform | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dibromo-3-Chloropropane (DBCP) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Dibromochloromethane (Chlorodibromomethane) | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dibromoethane (EDB) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,3-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,4-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| cis-1,4-Dichloro-2-butene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| trans-1,4-Dichloro-2-butene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Dichlorodifluoromethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,1-Dichloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dichloroethane | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 1,1-Dichloroethene (1, 1-dichloroethylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| trans-1,2-Dichloroethene (1, 2-dichloroethylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2-Dichloropropane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| cis-1,3-Dichloropropene (1, 3-dichloropropylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| trans-1,3-Dichloropropene (1, 3-dichloropropylene) | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,4-Dioxane | <1000 | ug/L | 1000 | SW-8260B | MS | | 04/12/2012 |
| Ethanol | <20000 | ug/L | 20000 | SW-8260B | MS | | 04/12/2012 |
| Ethyl Methacrylate | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Ethylbenzene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 2-Hexanone (MBK) | <500 | ug/L | 500 | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lana L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

**Lab Project #** L12-12986

**Received:** 04/11/2012
**Reported:** 04/24/2012
**Date/Time Sampled:** 04/09/2012 08:50
**Sampled By:**
**Sampled Matrix:** Liquid
**Containers:** 4

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13977-01**
Lab Sample # **L12-12986-02**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Isobutyl Alcohol | <20000 | ug/L | 20000 | SW-8260B | MS | | 04/12/2012 |
| Methacrylonitrile | <50.0 | ug/L | 50.0 | SW-8260B | MS | | 04/12/2012 |
| Methyl Bromide (Bromomethane) | <20.0 | ug/L | 20.0 | SW-8260B | MS | | 04/12/2012 |
| Methyl Chloride (Chloromethane) | <20.0 | ug/L | 20.0 | SW-8260B | MS | | 04/12/2012 |
| Methyl Ethyl Ketone (2-Butanone) | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Methyl Iodide | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Methyl Methacrylate | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Methylene Bromide | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Methylene Chloride | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 4-Methyl-2-Pentanone (MIBK) | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Pentachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Propionitrile | <200 | ug/L | 200 | SW-8260B | MS | | 04/12/2012 |
| Styrene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Tetrachloroethylene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,1,1,2-Tetrachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,1,2,2-Tetrachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Toluene | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 1,1,1-Trichloroethane | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| 1,1,2-Trichloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| Trichloroethylene (Trichloroethene) | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| Trichlorofluoromethane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| 1,2,3-Trichloropropane | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| m,p-Xylene | <20 | ug/L | 20 | SW-8260B | MS | | 04/12/2012 |
| o-Xylene | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| Xylenes, Total | <60.0 | ug/L | 60.0 | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lana L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

| | |
|---|---|
| **Lab Project #** | L12-12986 |
| **Received:** | 04/11/2012 |
| **Reported:** | 04/24/2012 |
| **Date/Time Sampled:** | 04/09/2012 08:50 |
| **Sampled By:** | |
| **Sampled Matrix:** | Liquid |
| **Containers:** | 4 |

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** **Vickery Environmental**

**Sample ID:** **M12-13977-01**

Lab Sample # **L12-12986-02**

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Vinyl Acetate | <50 | ug/L | 50 | SW-8260B | MS | | 04/12/2012 |
| Vinyl Chloride | <10 | ug/L | 10 | SW-8260B | MS | | 04/12/2012 |
| (Surrogate) 1,2-Dichloroethane d4 | 91.3 (53.6-137.7) | % | | SW-8260B | MS | | 04/12/2012 |
| (Surrogate) Toluene d8 | 95.2 (69.7-120.9) | % | | SW-8260B | MS | | 04/12/2012 |
| (Surrogate) 4-Bromofluorobenzene | 83.1 (31.3-173.6) | % | | SW-8260B | MS | | 04/12/2012 |

Analysis Certified By: Lana L Jackson

**Alloway**
Your Resource for Defensible Data

Project: M12-13977


○ 1101 North Cole Street, Lima, OH 45805
(P) 419-223-1362 (F) 419-227-3792
○ 1776 Marion-Waldo Road, Marion OH 43302
(P) 740-389-5991 (F) 740-389-1481
○ 508 Bissman Court, Mansfield, OH 44903
(P) 419-525-1644 (F) 419-524-5575


| | |
|---|---|
| Report To: Name: Brett Miller<br>Company: Vickery Environmental<br>Address: 3956 State Route 412<br>Vickery OH 43464 | Invoice To (If Different):<br>Name:<br>Company:<br>Address:<br>PO#: |
| Phone #: 419-547-7791 | Fax #: |
| E-mail: bmiller2@wm.com | |
| Project Name: April 2012 | South Secondary Analysis |
| Sampler (Print) | (Signature) |

Notes/Comments

*Invoice Separately*

Sub 8260 & 608 to Lima
Marion Export & Bill

Matrix Codes:
ww - wastewater, gw - groundwater, dw- drinking water, s - solid, w - water, oil - oil, sg - sludge, o - other

| | Customer Sample ID / Sample Location | Sample Date | Sample Time | Comp. | Grab | Matrix | Number of Containers | Analysis Required | Alloway Lims # (For Lab Use Only) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | 01 |
| 2 | | | | | | | | | ↓ |
| 3 | South Secondary 12-2773 | 4-9-12 | 0550 | | ✓ | $H_2O$ | 1 | PCB's | 02 |
| 4 | ↓ ↓ | | | | ✓ | ↓ | 3 | VOC's (VEI Long List) | ↓ |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |

AVW 4-11-12

| | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

Method of Sample Delivery:
UPS/FedEx ☐ Client Delivery ☐
Other ____ Alloway Pick-up ☐

Received for Laboratory By: (Signature) Amanda Welt — 4-11-12 — 0900

Sample Receiving (For Lab Use Only)
Ice Present? Y ☑ N ☐
Proper Preservation? Y ☐ N ☐
Container Temperature: 2.6

Priority (for Client use)
Note: Rush Charges May Apply
24 Hrs ☐
48 Hrs ☐
3 Working Days ☐
Routine (5-10 Working days) ☐

White - Lab Copy Yellow - Client Copy

# LABORATORY ANALYSIS REQUEST FORM

REQUEST # [illegible] SUBMITTER: [illegible] DATE: __/__/__ TIME: __:__ AM/PM

FOR TANK BLENDS:

SAMPLE TICKET # SAMPLE TICKET #

T-_____ _____ to T-_____ _____

FOR HIGH mV DIRECT (GRAB SAMPLE)

SAMPLE TICKET # SAMPLE TICKET #

HIGH mV _____ FOLLOWING T- _____

ANALYTICAL FOR:

GENERATOR: VFI PROFILE #: _____

SAMPLE TICKET #: 12-8170 RAIL CAR #: _____

| TEST | DATA | ANALYST | DATE | TEST | DATA | ANALYST | DATE |
|---|---|---|---|---|---|---|---|
| CN DETECTOR (ppm) | | | __/__/__ | RADIATION | | | __/__/__ |
| COMPATIBILITY | | | __/__/__ | S DETECTOR (ppm) | | | __/__/__ |
| FLAMMABILITY | | | __/__/__ | SPECIFIC GRAVITY | | | __/__/__ |
| FLASHPOINT (C) | | | __/__/__ | TEMPERATURE (°C) | 11 | JBS | 10/26/12 |
| MILLIVOLT (REDOX) | | | __/__/__ | TSS CENTRIFUGE (%) | | | __/__/__ |
| PCB GC/ECD (ppm) | | | __/__/__ | VOA -LIQUID GC/FID (%) | | | __/__/__ |
| pH METER | 7.13 | JBS | 10/26/12 | CONDUCTIVITY | ~~694~~ 20,000 umhos/cm | JBS | 11/24/12 |
| pH PAPER | | | __/__/__ | | | | |
| DESCRIPTION: | see below: | | __/__/__ | | | | |

JBS 11-24-12

VISCOSITY: (LV)(MV)(HV) \ TURBIDITY: (CLEAR)(CLOUDY)(OPAQUE) \ COLOR: _____

STATE: (LIQUID)(SEMI-SLUDGE)(SOLID) \ LAYERS: (SINGLE)(BYLAYER)(MULTILAYER) \ ODOR: _____

COMMENTS: North Primary

BLEND COMPATIBILITY:

ANALYST: _____ DATE: __/__/__

RECEIVING TANK # __/_____ GALLONS** TRANSFER TANK # __/_____ GALLONS

*** Receiving Tank must have 80,000 gallons or more for Nitric Blends. Nitric blends limited to 10,000 gallons.***

(_____ mV @ ____ C) _____ GALLONS (_____ mV @ ____ C) _____ GALLONS

REDOX POTENTIAL (_____ mV @ ____ C) RECOMMENDED RATIO ( ____ : ____ )

APPROVAL PERSON: _____ DATE: __/__/__ (AS PER: ____ DATE: __/__/__)

FILTERABILITY: SAMPLE TYPE: _____

SAMPLE SIZE _____ MLS FILTERTIME: _____

FILTER SIZE _____ MICRON COMMENTS: _____

TRANSFER TANK #: _____ RECEIVING TANK #: _____

START TIME: ____:____ AM/PM STOP TIME: ____:____ AM/PM

INITIAL LEVEL: _____% _____ GALLONS FINAL LEVEL: _____% _____ GALLONS

TRANSFERRED AMOUNT: _____ GALLONS

BLENDING OPERATOR: _____ DATE: __/__/__ MANAGER OF OPERATIONS: _____ DATE: __/__/__

COMPLETENESS REVIEW: _____ DATE: _____

Alloway
Your Resource for Defensible Data



CERTIFICATE OF ANALYSIS
Reported by Alloway - Marion
Chain of Custody attached

Lab Project # M12-23799
Received: 10/29/2012
Reported: 11/9/2012

Vickery Environmental
Attn: Brett Miller
39560 S. R 412
Vickery, OH 43464

Date/Time Sampled: 10/25/2012 14:20
Sampled By: BM
Sampled Matrix: Liquid
Containers: 4
Collection Method: Grab

Project Name: North ~~Secondary~~ Primary

Sample ID: 12-8171
Lab Sample # M12-23799-01

Method 8260 was analyzed at our Lima facility, see attached results.
Dilutions required for both methods resulting in elevated PQLs.

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| PCB-1016 | <10.0 | ug/L | 10.0 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| PCB-1221 | <10.0 | ug/L | 10.0 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| PCB-1232 | <20.0 | ug/L | 20.0 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| PCB-1242 | <10.0 | ug/L | 10.0 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| PCB-1248 | <5.00 | ug/L | 5.00 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| PCB-1254 | <5.00 | ug/L | 5.00 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| PCB-1260 | <5.00 | ug/L | 5.00 | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| (Surrogate) TCMX | 46.5 | % | | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| 12 - 163 | | | | | | | |
| (Surrogate) DCB | 79.3 | % | | SW-8082 | RDK | 11/01/2012 | 11/09/2012 05:01 |
| D - 179 | | | | | | | |

Analysis Certified By: Rhonda C. Morris
Rhonda C Morris

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory.*
*The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The analytical results relate only to the items tested. Analytical results are based on dry-weights for solid samples, unless otherwise specified.*

1101 N. Cole Street • Lima, Ohio 45805
419.223.1362 • Fax 419.227.3792
800.436.1243

508 Bissman Ct. • Mansfield, Ohio 44903
419.525.1644 • Fax 419.524.5575
800.635.3222

1776 Marion-Waldo Rd. • Marion, Ohio 43302
740.389.5991 • Fax 740.389.1481
800.873.2835

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

Lab Project # L12-19356
Received: 10/29/2012
Reported: 11/15/2012
Date/Time Sampled: 10/25/2012 14:20
Sampled By: BM
Sampled Matrix: Liquid
Containers: 3

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

Project Name: Vickery Environmental

Sample ID: M12-23799-01
Lab Sample # L12-19356-01
REVISED

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Acetone | <100 | ug/L | 100 | SW-8260B | MS | | 10/30/2012 |
| Acetonitrile | <200 | ug/L | 200 | SW-8260B | MS | | 10/30/2012 |
| Acrolein | <500 | ug/L | 500 | SW-8260B | MS | | 10/30/2012 |
| Acrylonitrile | <500 | ug/L | 500 | SW-8260B | MS | | 10/30/2012 |
| Allyl Alcohol | <20000 | ug/L | 20000 | SW-8260B | MS | | 10/30/2012 |
| Allyl Chloride | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Benzene | <40 | ug/L | 40 | SW-8260B | MS | | 10/30/2012 |
| Bromodichloromethane (Dichlorobromomethane) | <50 | ug/L | 50 | SW-8260B | MS | | 10/30/2012 |
| Bromoform | <50 | ug/L | 50 | SW-8260B | MS | | 10/30/2012 |
| Carbon Disulfide | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Carbon Tetrachloride | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Chlorobenzene | <10 | ug/L | 10 | SW-8260B | MS | | 10/30/2012 |
| Chloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 2-Chloroethyl Vinyl Ether | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Chloroform | <50 | ug/L | 50 | SW-8260B | MS | | 10/30/2012 |
| 1,2-Dibromo-3-Chloropropane (DBCP) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Dibromochloromethane (Chlorodibromomethane) | <50 | ug/L | 50 | SW-8260B | MS | | 10/30/2012 |
| 1,2-Dibromoethane (EDB) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,2-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,3-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,4-Dichlorobenzene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| cis-1,4-Dichloro-2-butene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| trans-1,4-Dichloro-2-butene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |

Analysis Certified By: Lane L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

Lab Project # L12-19356

Received: 10/29/2012
Reported: 11/15/2012

Date/Time Sampled: 10/25/2012 14:20
Sampled By: BM
Sampled Matrix: Liquid
Containers: 3

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

**Project Name:** Vickery Environmental

**Sample ID:** M12-23799-01
Lab Sample # L12-19356-01
REVISED

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,1-Dichloroethane | 30 | ug/L | 2.0 | SW-8260B | MS | | 10/30/2012 |
| 1,2-Dichloroethane | <100 | ug/L | 100 | SW-8260B | MS | | 10/30/2012 |
| 1,1-Dichloroethene (1, 1-dichloroethylene) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| trans-1,2-Dichloroethene (1, dichloroethylene) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| ,2-Dichloropropane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| cis-1,3-Dichloropropene (1, 3-dichloropropylene) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| trans-1,3-Dichloropropene (1, 3-dichloropropylene) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,4-Dioxane | 2700 | ug/L | 1000 | SW-8260B | MS | | 10/30/2012 |
| Ethanol | <20000 | ug/L | 20000 | SW-8260B | MS | | 10/30/2012 |
| Ethyl Methacrylate | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Ethylbenzene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 2-Hexanone (MBK) | <500 | ug/L | 500 | SW-8260B | MS | | 10/30/2012 |
| Isobutyl Alcohol | <20000 | ug/L | 20000 | SW-8260B | MS | | 10/30/2012 |
| Methacrylonitrile | <50 | ug/L | 50 | SW-8260B | MS | | 10/30/2012 |
| Methyl Bromide (Bromomethane) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Methyl Chloride (Chloromethane) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Methyl Ethyl Ketone (2-Butanone) | <200 | ug/L | 200 | SW-8260B | MS | | 10/30/2012 |
| Methyl Iodide | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Methyl Methacrylate | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Methylene Bromide | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Methylene Chloride | <100 | ug/L | 100 | SW-8260B | MS | | 10/30/2012 |
| ethyl-2-Pentanone (MIBK) | <200 | ug/L | 200 | SW-8260B | MS | | 10/30/2012 |

Analysis Certified By: Lena L Jackson

Alloway
Your Resource for Defensible Data

ANALYTICAL REPORT

Lab Project # L12-19356
Received: 10/29/2012
Reported: 11/15/2012
Date/Time Sampled: 10/25/2012 14:20
Sampled By: BM
Sampled Matrix: Liquid
Containers: 3

Alloway-Marion
Attn: Rhonda Morris
1776 Marion-Waldo Rd
Marion, OH 43302

Project Name: Vickery Environmental

Sample ID: M12-23799-01
Lab Sample # L12-19356-01
REVISED

| Analyte | Results | Units | PQL | Method | Analyst | Extraction Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether (MTBE) | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Pentachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Propionitrile | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Styrene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Tetrachloroethylene | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,1,1,2-Tetrachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,1,2,2-Tetrachloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Toluene | <10 | ug/L | 10 | SW-8260B | MS | | 10/30/2012 |
| 1,1,1-Trichloroethane | <10 | ug/L | 10 | SW-8260B | MS | | 10/30/2012 |
| 1,1,2-Trichloroethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Trichloroethylene (Trichloroethene) | <10 | ug/L | 10 | SW-8260B | MS | | 10/30/2012 |
| Trichlorofluoromethane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| 1,2,3-Trichloropropane | <20 | ug/L | 20 | SW-8260B | MS | | 10/30/2012 |
| Xylenes, Total | <40 | ug/L | 40 | SW-8260B | MS | | 10/30/2012 |
| Vinyl Acetate | <50 | ug/L | 50 | SW-8260B | MS | | 10/30/2012 |
| Vinyl Chloride | <10 | ug/L | 10 | SW-8260B | MS | | 10/30/2012 |
| (Surrogate) 1,2-Dichloroethane d4 | 102.6 (53.6-137.7) | % | | SW-8260B | MS | | 10/30/2012 |
| (Surrogate) Toluene d8 | 108.6 (69.7-120.9) | % | | SW-8260B | MS | | 10/30/2012 |
| (Surrogate) 4-Bromofluorobenzene | 93.3 (31.3-173.6) | % | | SW-8260B | MS | | 10/30/2012 |

Analysis Certified By: Lane L Jackson

**Allow**
Your Resource for Defensibl

Project: M12-23799


○ 1101 North Cole Street, Lima, OH 45805
(P) 419-223-1362 (F) 419-227-3792
○ 1776 Marion-Waldo Road, Marion OH 43302
(P) 740-389-5991 (F) 740-389-1461
○ 508 Blasman Court, Mansfield, OH 44903
(P) 419-525-1644 (F) 419-524-5575


ort To: Brett Miller
e: Vickery Environmental
pany: 3956 State Rt. 412
ress: Vickery, OH 43464

Invoice To (If Different):
Name:
Company:
Address:
PO#:

Notes/Comments
~~*5 day rush pre approved by Mike H.~~
Please fax results + return coolers when done.
Thanks

Phone #: (419) 547-7791 Fax #: (419) 547-6144
E-mail: bmiller2@wm.com

ject Name: North ~~Secondary~~ Primary
Sampler (Print): Brett Miller (Signature): Brett Miller

Matrix Codes:
ww - wastewater, gw - groundwater, dw - drinking water, s - solid, w - water, oil - oil, sg - sludge, o - other

| | Customer Sample ID / Sample Location | Sample Date | Sample Time | Comp. | Grab | Matrix | Number of Containers | Analysis Required | Alloway Lims # (For Lab Use Only) |
|---|---|---|---|---|---|---|---|---|---|
| | 8171 | 10-25-12 | 2 20 PM | | ✓ | Alk. | 1 | PCB's | 01 |
| | ↓ | ↓ | ↓ | | ✓ | Alk. | 3 | VOC's | ↓ |
| | | | | | | | | | |
| | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |

| Relinquished by: | Received by: | Date | Time |
|---|---|---|---|
| 1 [signature] | | | |
| 2 | | | |
| 3 | | | |

Method of Sample Delivery:
UPS/FedEx ☑ Other ____ Client Delivery ☐ Alloway Pick-up ☐

Received for Laboratory By: (Signature) [signature] 10/29/12 0830

Sample Receiving (For Lab Use Only)
Ice Present? Y ☒ N ☐
Proper Preservation? Y ☐ N ☐
Container Temperature: 2.9

Priority (for Client use) Note: Rush Charges May Apply
24 Hrs ☐
48 Hrs ☐
3 Working Days ☐
Routine (5-10 Working days) ☑

White - Lab Copy Yellow - Client Copy

5 Day Rush

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** MW37R

Lab Sample ID: 280-27768-1
Client Matrix: Water

Date Sampled: 04/16/2012 1005
Date Received: 04/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-116999 | Instrument ID: | MSV_MS1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | MS5308.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/25/2012 0315 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/25/2012 0315 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 70 - 127 |
| Toluene-d8 (Surr) | 95 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 97 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 91 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** MW24R

Lab Sample ID: 280-27768-2
Client Matrix: Water

Date Sampled: 04/16/2012 1110
Date Received: 04/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-116999 | Instrument ID: | MSV_MS1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | MS5309.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/25/2012 0335 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/25/2012 0335 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 127 |
| Toluene-d8 (Surr) | 99 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 105 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 99 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** MW20R

Lab Sample ID: 280-27768-3
Client Matrix: Water

Date Sampled: 04/16/2012 1430
Date Received: 04/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-116999 | Instrument ID: | MSV_MS1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | MS5310.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/25/2012 0355 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/25/2012 0355 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 127 |
| Toluene-d8 (Surr) | 105 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 110 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** MW30R

Lab Sample ID: 280-27768-4
Client Matrix: Water

Date Sampled: 04/16/2012 1545
Date Received: 04/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-116999 | Instrument ID: | MSV_MS1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | MS5311.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/25/2012 0415 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/25/2012 0415 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 127 |
| Toluene-d8 (Surr) | 98 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 103 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 95 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** 02FBB

Lab Sample ID: 280-27768-5FB
Client Matrix: Water

Date Sampled: 04/16/2012 0910
Date Received: 04/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-116999 | Instrument ID: | MSV_MS1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | MS5312.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/25/2012 0435 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/25/2012 0435 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 127 |
| Toluene-d8 (Surr) | 93 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 99 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 94 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** **DUP1**

Lab Sample ID: 280-27768-6FD
Client Matrix: Water

Date Sampled: 04/16/2012 1110
Date Received: 04/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-116999 | Instrument ID: | MSV_MS1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | MS5313.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/25/2012 0455 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/25/2012 0455 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 127 |
| Toluene-d8 (Surr) | 114 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 122 | X | 78 - 120 |
| Dibromofluoromethane (Surr) | 113 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** *MW37R*

Lab Sample ID: 280-27768-1
Client Matrix: Water

Date Sampled: 04/16/2012 1005
Date Received: 04/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116586 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-115938 | Initial Weight/Volume: | 1032.1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/20/2012 2044 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/18/2012 1112 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.97 |
| Aroclor 1221 | ND | | 0.97 |
| Aroclor 1232 | ND | | 0.97 |
| Aroclor 1242 | ND | | 0.97 |
| Aroclor 1248 | ND | | 0.97 |
| Aroclor 1254 | ND | | 0.97 |
| Aroclor 1260 | ND | | 0.97 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 79 | | 30 - 136 |
| Tetrachloro-m-xylene | 81 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** *MW24R*

Lab Sample ID: 280-27768-2
Client Matrix: Water

Date Sampled: 04/16/2012 1110
Date Received: 04/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116586 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-115938 | Initial Weight/Volume: | 1019.2 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/20/2012 2105 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/18/2012 1112 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.98 |
| Aroclor 1221 | ND | | 0.98 |
| Aroclor 1232 | ND | | 0.98 |
| Aroclor 1242 | ND | | 0.98 |
| Aroclor 1248 | ND | | 0.98 |
| Aroclor 1254 | ND | | 0.98 |
| Aroclor 1260 | ND | | 0.98 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 91 | | 30 - 136 |
| Tetrachloro-m-xylene | 81 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** ***MW20R***

Lab Sample ID: 280-27768-3

Client Matrix: Water

Date Sampled: 04/16/2012 1430

Date Received: 04/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116586 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-115938 | Initial Weight/Volume: | 908.9 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/20/2012 2127 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/18/2012 1112 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.1 |
| Aroclor 1221 | ND | | 1.1 |
| Aroclor 1232 | ND | | 1.1 |
| Aroclor 1242 | ND | | 1.1 |
| Aroclor 1248 | ND | | 1.1 |
| Aroclor 1254 | ND | | 1.1 |
| Aroclor 1260 | ND | | 1.1 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 83 | | 30 - 136 |
| Tetrachloro-m-xylene | 79 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** **MW30R**

Lab Sample ID: 280-27768-4

Client Matrix: Water

Date Sampled: 04/16/2012 1545

Date Received: 04/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116586 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-115938 | Initial Weight/Volume: | 968.4 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/20/2012 2148 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/18/2012 1112 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.0 |
| Aroclor 1221 | ND | | 1.0 |
| Aroclor 1232 | ND | | 1.0 |
| Aroclor 1242 | ND | | 1.0 |
| Aroclor 1248 | ND | | 1.0 |
| Aroclor 1254 | ND | | 1.0 |
| Aroclor 1260 | ND | | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 77 | | 30 - 136 |
| Tetrachloro-m-xylene | 71 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** 02FBB

Lab Sample ID: 280-27768-5FB

Client Matrix: Water

Date Sampled: 04/16/2012 0910

Date Received: 04/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116586 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-115938 | Initial Weight/Volume: | 1019.3 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/20/2012 2209 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/18/2012 1112 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.98 |
| Aroclor 1221 | ND | | 0.98 |
| Aroclor 1232 | ND | | 0.98 |
| Aroclor 1242 | ND | | 0.98 |
| Aroclor 1248 | ND | | 0.98 |
| Aroclor 1254 | ND | | 0.98 |
| Aroclor 1260 | ND | | 0.98 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 99 | | 30 - 136 |
| Tetrachloro-m-xylene | 84 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27768-1

**Client Sample ID:** DUP1

Lab Sample ID: 280-27768-6FD

Client Matrix: Water

Date Sampled: 04/16/2012 1110

Date Received: 04/17/2012 0900

***8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography***

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116586 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-115938 | Initial Weight/Volume: | 1033.9 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/20/2012 2231 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/18/2012 1112 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.97 |
| Aroclor 1221 | ND | | 0.97 |
| Aroclor 1232 | ND | | 0.97 |
| Aroclor 1242 | ND | | 0.97 |
| Aroclor 1248 | ND | | 0.97 |
| Aroclor 1254 | ND | | 0.97 |
| Aroclor 1260 | ND | | 0.97 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 94 | | 30 - 136 |
| Tetrachloro-m-xylene | 86 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** **MW16R**

Lab Sample ID: 280-27836-1
Client Matrix: Water

Date Sampled: 04/17/2012 0926
Date Received: 04/18/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-117119 | Instrument ID: | MSV_R1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | R6217.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/26/2012 1049 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/26/2012 1049 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 70 - 127 |
| Toluene-d8 (Surr) | 106 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 101 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 108 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** **MW36R**

Lab Sample ID: 280-27836-2
Client Matrix: Water

Date Sampled: 04/17/2012 1030
Date Received: 04/18/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-117119 | Instrument ID: | MSV_R1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | R6218.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/26/2012 1110 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/26/2012 1110 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 127 |
| Toluene-d8 (Surr) | 105 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 100 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 107 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** MW14R

Lab Sample ID: 280-27836-3
Client Matrix: Water

Date Sampled: 04/17/2012 1345
Date Received: 04/18/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-117119 | Instrument ID: | MSV_R1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | R6220.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/26/2012 1151 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/26/2012 1151 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 70 - 127 |
| Toluene-d8 (Surr) | 103 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 98 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** **MW15R**

Lab Sample ID: 280-27836-4
Client Matrix: Water

Date Sampled: 04/17/2012 1215
Date Received: 04/18/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-117119 | Instrument ID: | MSV_R1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | R6221.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/26/2012 1212 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/26/2012 1212 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 127 |
| Toluene-d8 (Surr) | 107 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 97 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 108 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** 02FBD

Lab Sample ID: 280-27836-5FB
Client Matrix: Water

Date Sampled: 04/17/2012 1120
Date Received: 04/18/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-117119 | Instrument ID: | MSV_R1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | R6222.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/26/2012 1233 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/26/2012 1233 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 127 |
| Toluene-d8 (Surr) | 106 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 100 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 109 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** **MW16R**

Lab Sample ID: 280-27836-1
Client Matrix: Water

Date Sampled: 04/17/2012 0926
Date Received: 04/18/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116714 | Instrument ID: | GCS_W |
| Prep Method: | 3510C | Prep Batch: | 280-116213 | Initial Weight/Volume: | 1042.7 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/23/2012 1631 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/19/2012 1627 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.96 |
| Aroclor 1221 | ND | | 0.96 |
| Aroclor 1232 | ND | | 0.96 |
| Aroclor 1242 | ND | | 0.96 |
| Aroclor 1248 | ND | | 0.96 |
| Aroclor 1254 | ND | | 0.96 |
| Aroclor 1260 | ND | | 0.96 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 99 | | 30 - 136 |
| Tetrachloro-m-xylene | 90 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** MW36R

Lab Sample ID: 280-27836-2

Client Matrix: Water

Date Sampled: 04/17/2012 1030

Date Received: 04/18/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116714 | Instrument ID: | GCS_W |
| Prep Method: | 3510C | Prep Batch: | 280-116213 | Initial Weight/Volume: | 984.1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/23/2012 1544 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/19/2012 1627 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.0 |
| Aroclor 1221 | ND | | 1.0 |
| Aroclor 1232 | ND | | 1.0 |
| Aroclor 1242 | ND | | 1.0 |
| Aroclor 1248 | ND | | 1.0 |
| Aroclor 1254 | ND | | 1.0 |
| Aroclor 1260 | ND | | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 89 | | 30 - 136 |
| Tetrachloro-m-xylene | 88 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** **MW14R**

Lab Sample ID: 280-27836-3
Client Matrix: Water

Date Sampled: 04/17/2012 1345
Date Received: 04/18/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116714 | Instrument ID: | GCS_W |
| Prep Method: | 3510C | Prep Batch: | 280-116213 | Initial Weight/Volume: | 1043.2 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/23/2012 1521 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/19/2012 1627 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.96 |
| Aroclor 1221 | ND | | 0.96 |
| Aroclor 1232 | ND | | 0.96 |
| Aroclor 1242 | ND | | 0.96 |
| Aroclor 1248 | ND | | 0.96 |
| Aroclor 1254 | ND | | 0.96 |
| Aroclor 1260 | ND | | 0.96 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 92 | | 30 - 136 |
| Tetrachloro-m-xylene | 90 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** MW15R

Lab Sample ID: 280-27836-4

Client Matrix: Water

Date Sampled: 04/17/2012 1215

Date Received: 04/18/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116714 | Instrument ID: | GCS_W |
| Prep Method: | 3510C | Prep Batch: | 280-116213 | Initial Weight/Volume: | 989 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/23/2012 1458 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/19/2012 1627 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.0 |
| Aroclor 1221 | ND | | 1.0 |
| Aroclor 1232 | ND | | 1.0 |
| Aroclor 1242 | ND | | 1.0 |
| Aroclor 1248 | ND | | 1.0 |
| Aroclor 1254 | ND | | 1.0 |
| Aroclor 1260 | ND | | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 96 | | 30 - 136 |
| Tetrachloro-m-xylene | 88 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27836-1

**Client Sample ID:** 02FBD

Lab Sample ID: 280-27836-5FB

Client Matrix: Water

Date Sampled: 04/17/2012 1120

Date Received: 04/18/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116714 | Instrument ID: | GCS_W |
| Prep Method: | 3510C | Prep Batch: | 280-116213 | Initial Weight/Volume: | 1037.7 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/23/2012 1435 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/19/2012 1627 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.96 |
| Aroclor 1221 | ND | | 0.96 |
| Aroclor 1232 | ND | | 0.96 |
| Aroclor 1242 | ND | | 0.96 |
| Aroclor 1248 | ND | | 0.96 |
| Aroclor 1254 | ND | | 0.96 |
| Aroclor 1260 | ND | | 0.96 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 94 | | 30 - 136 |
| Tetrachloro-m-xylene | 86 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **02FBB**

Lab Sample ID: 280-34670-1FB
Client Matrix: Water

Date Sampled: 10/15/2012 0842
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144162 | Instrument ID: | VMS_H |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | H7775.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/26/2012 0058 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/26/2012 0058 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 127 |
| Toluene-d8 (Surr) | 100 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 105 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 102 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW20R**

Lab Sample ID: 280-34670-2
Client Matrix: Water

Date Sampled: 10/15/2012 1130
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144162 | Instrument ID: | VMS_H |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | H7776.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/26/2012 0119 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/26/2012 0119 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 83 | | 70 - 127 |
| Toluene-d8 (Surr) | 97 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 96 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 97 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW30R**

Lab Sample ID: 280-34670-3
Client Matrix: Water

Date Sampled: 10/15/2012 1230
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144162 | Instrument ID: | VMS_H |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | H7777.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/26/2012 0141 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/26/2012 0141 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 70 - 127 |
| Toluene-d8 (Surr) | 104 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 106 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 104 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW14R**

Lab Sample ID: 280-34670-4
Client Matrix: Water

Date Sampled: 10/15/2012 1320
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144162 | Instrument ID: | VMS_H |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | H7778.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/26/2012 0203 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/26/2012 0203 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 127 |
| Toluene-d8 (Surr) | 122 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 122 | X | 78 - 120 |
| Dibromofluoromethane (Surr) | 121 | X | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **DUP1**

Lab Sample ID: 280-34670-6FD
Client Matrix: Water

Date Sampled: 10/15/2012 1015
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144162 | Instrument ID: | VMS_H |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | H7780.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/26/2012 0247 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/26/2012 0247 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 70 - 127 |
| Toluene-d8 (Surr) | 96 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 103 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 102 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW24R**

Lab Sample ID: 280-34670-7
Client Matrix: Water

Date Sampled: 10/15/2012 1015
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144162 | Instrument ID: | VMS_H |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | H7781.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/26/2012 0308 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/26/2012 0308 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 127 |
| Toluene-d8 (Surr) | 102 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 109 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 105 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW37R**

Lab Sample ID: 280-34670-8
Client Matrix: Water

Date Sampled: 10/15/2012 0915
Date Received: 10/16/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144459 | Instrument ID: | VMS_P |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | P2911.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/27/2012 1534 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/27/2012 1534 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 127 |
| Toluene-d8 (Surr) | 89 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 91 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 102 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **02FBB**

Lab Sample ID: 280-34670-1FB

Client Matrix: Water

Date Sampled: 10/15/2012 0842

Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 973.2 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1222 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.0 |
| Aroclor 1221 | ND | | 1.0 |
| Aroclor 1232 | ND | | 1.0 |
| Aroclor 1242 | ND | | 1.0 |
| Aroclor 1248 | ND | | 1.0 |
| Aroclor 1254 | ND | | 1.0 |
| Aroclor 1260 | ND | | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 86 | | 30 - 136 |
| Tetrachloro-m-xylene | 99 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW20R**

Lab Sample ID: 280-34670-2
Client Matrix: Water

Date Sampled: 10/15/2012 1130
Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 1047.2 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1243 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.95 |
| Aroclor 1221 | ND | | 0.95 |
| Aroclor 1232 | ND | | 0.95 |
| Aroclor 1242 | ND | | 0.95 |
| Aroclor 1248 | ND | | 0.95 |
| Aroclor 1254 | ND | | 0.95 |
| Aroclor 1260 | ND | | 0.95 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 66 | | 30 - 136 |
| Tetrachloro-m-xylene | 91 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW30R**

Lab Sample ID: 280-34670-3

Client Matrix: Water

Date Sampled: 10/15/2012 1230

Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 1030.1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1304 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.97 |
| Aroclor 1221 | ND | | 0.97 |
| Aroclor 1232 | ND | | 0.97 |
| Aroclor 1242 | ND | | 0.97 |
| Aroclor 1248 | ND | | 0.97 |
| Aroclor 1254 | ND | | 0.97 |
| Aroclor 1260 | ND | | 0.97 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 65 | | 30 - 136 |
| Tetrachloro-m-xylene | 96 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW14R**

Lab Sample ID: 280-34670-4
Client Matrix: Water

Date Sampled: 10/15/2012 1320
Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 1052.1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1326 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.95 |
| Aroclor 1221 | ND | | 0.95 |
| Aroclor 1232 | ND | | 0.95 |
| Aroclor 1242 | ND | | 0.95 |
| Aroclor 1248 | ND | | 0.95 |
| Aroclor 1254 | ND | | 0.95 |
| Aroclor 1260 | ND | | 0.95 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 82 | | 30 - 136 |
| Tetrachloro-m-xylene | 94 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **DUP1**

Lab Sample ID: 280-34670-6FD

Client Matrix: Water

Date Sampled: 10/15/2012 1015

Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 1004.6 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1409 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.0 |
| Aroclor 1221 | ND | | 1.0 |
| Aroclor 1232 | ND | | 1.0 |
| Aroclor 1242 | ND | | 1.0 |
| Aroclor 1248 | ND | | 1.0 |
| Aroclor 1254 | ND | | 1.0 |
| Aroclor 1260 | ND | | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 78 | | 30 - 136 |
| Tetrachloro-m-xylene | 96 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW24R**

*Lab Sample ID:* *280-34670-7*

Client Matrix: Water

*Date Sampled:* *10/15/2012 1015*

Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 996.1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1430 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 1.0 |
| Aroclor 1221 | ND | | 1.0 |
| Aroclor 1232 | ND | | 1.0 |
| Aroclor 1242 | ND | | 1.0 |
| Aroclor 1248 | ND | | 1.0 |
| Aroclor 1254 | ND | | 1.0 |
| Aroclor 1260 | ND | | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 79 | | 30 - 136 |
| Tetrachloro-m-xylene | 97 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34670-1

**Client Sample ID:** **MW37R**

Lab Sample ID: 280-34670-8
Client Matrix: Water

Date Sampled: 10/15/2012 0915
Date Received: 10/16/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 1008.5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1451 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.99 |
| Aroclor 1221 | ND | | 0.99 |
| Aroclor 1232 | ND | | 0.99 |
| Aroclor 1242 | ND | | 0.99 |
| Aroclor 1248 | ND | | 0.99 |
| Aroclor 1254 | ND | | 0.99 |
| Aroclor 1260 | ND | | 0.99 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 57 | | 30 - 136 |
| Tetrachloro-m-xylene | 99 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **02FBD**

Lab Sample ID: 280-34760-1FB
Client Matrix: Water

Date Sampled: 10/16/2012 0820
Date Received: 10/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144459 | Instrument ID: | VMS_P |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | P2904.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/27/2012 1318 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/27/2012 1318 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,2-Dichloroethane | ND | | 4.0 |
| 1,2-Dichloropropane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| Chloromethane | ND | | 10 |
| cis-1,2-Dichloroethene | ND | | 10 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Dichlorofluoromethane | ND | | 10 |
| Ethanol | ND | | 100 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| Tetrachloroethene | ND | | 5.0 |
| Toluene | ND | | 5.0 |
| trans-1,2-Dichloroethene | ND | | 10 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 70 - 127 |
| Toluene-d8 (Surr) | 92 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 92 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 100 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **MW15R**

Lab Sample ID: 280-34760-2
Client Matrix: Water

Date Sampled: 10/16/2012 0930
Date Received: 10/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144459 | Instrument ID: | VMS_P |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | P2906.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/27/2012 1357 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/27/2012 1357 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,2-Dichloroethane | ND | | 4.0 |
| 1,2-Dichloropropane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| Chloromethane | ND | | 10 |
| cis-1,2-Dichloroethene | ND | | 10 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Dichlorofluoromethane | ND | | 10 |
| Ethanol | ND | | 100 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| Tetrachloroethene | ND | | 5.0 |
| Toluene | ND | | 5.0 |
| trans-1,2-Dichloroethene | ND | | 10 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 70 - 127 |
| Toluene-d8 (Surr) | 91 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 93 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 100 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **MW36R**

Lab Sample ID: 280-34760-3
Client Matrix: Water

Date Sampled: 10/16/2012 1020
Date Received: 10/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144459 | Instrument ID: | VMS_P |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | P2909.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/27/2012 1455 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/27/2012 1455 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,2-Dichloroethane | ND | | 4.0 |
| 1,2-Dichloropropane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| Chloromethane | ND | | 10 |
| cis-1,2-Dichloroethene | ND | | 10 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Dichlorofluoromethane | ND | | 10 |
| Ethanol | ND | | 100 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| Tetrachloroethene | ND | | 5.0 |
| Toluene | ND | | 5.0 |
| trans-1,2-Dichloroethene | ND | | 10 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 70 - 127 |
| Toluene-d8 (Surr) | 90 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 91 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 101 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **MW16R**

Lab Sample ID: 280-34760-4
Client Matrix: Water

Date Sampled: 10/16/2012 0740
Date Received: 10/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144459 | Instrument ID: | VMS_P |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | P2910.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/27/2012 1515 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/27/2012 1515 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,2-Dichloroethane | ND | | 4.0 |
| 1,2-Dichloropropane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| Chloromethane | ND | | 10 |
| cis-1,2-Dichloroethene | ND | | 10 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Dichlorofluoromethane | ND | | 10 |
| Ethanol | ND | | 100 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| Tetrachloroethene | ND | | 5.0 |
| Toluene | ND | | 5.0 |
| trans-1,2-Dichloroethene | ND | | 10 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 127 |
| Toluene-d8 (Surr) | 88 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 90 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 99 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **02FBD**

Lab Sample ID: 280-34760-1FB

Client Matrix: Water

Date Sampled: 10/16/2012 0820

Date Received: 10/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144772 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-144392 | Initial Weight/Volume: | 1054.9 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/29/2012 1037 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/26/2012 1649 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.95 |
| Aroclor 1221 | ND | | 0.95 |
| Aroclor 1232 | ND | | 0.95 |
| Aroclor 1242 | ND | | 0.95 |
| Aroclor 1248 | ND | | 0.95 |
| Aroclor 1254 | ND | | 0.95 |
| Aroclor 1260 | ND | | 0.95 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 78 | | 30 - 136 |
| Tetrachloro-m-xylene | 88 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **MW15R**

Lab Sample ID: 280-34760-2
Client Matrix: Water

Date Sampled: 10/16/2012 0930
Date Received: 10/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144772 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-144392 | Initial Weight/Volume: | 1030.3 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/29/2012 1058 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/26/2012 1649 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.97 |
| Aroclor 1221 | ND | | 0.97 |
| Aroclor 1232 | ND | | 0.97 |
| Aroclor 1242 | ND | | 0.97 |
| Aroclor 1248 | ND | | 0.97 |
| Aroclor 1254 | ND | | 0.97 |
| Aroclor 1260 | ND | | 0.97 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 77 | | 30 - 136 |
| Tetrachloro-m-xylene | 89 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **MW36R**

Lab Sample ID: 280-34760-3

Client Matrix: Water

Date Sampled: 10/16/2012 1020

Date Received: 10/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144772 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-144392 | Initial Weight/Volume: | 1058.7 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/29/2012 1120 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/26/2012 1649 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.94 |
| Aroclor 1221 | ND | | 0.94 |
| Aroclor 1232 | ND | | 0.94 |
| Aroclor 1242 | ND | | 0.94 |
| Aroclor 1248 | ND | | 0.94 |
| Aroclor 1254 | ND | | 0.94 |
| Aroclor 1260 | ND | | 0.94 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 75 | | 30 - 136 |
| Tetrachloro-m-xylene | 107 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34760-1

**Client Sample ID:** **MW16R**

Lab Sample ID: 280-34760-4

Client Matrix: Water

Date Sampled: 10/16/2012 0740

Date Received: 10/17/2012 0900

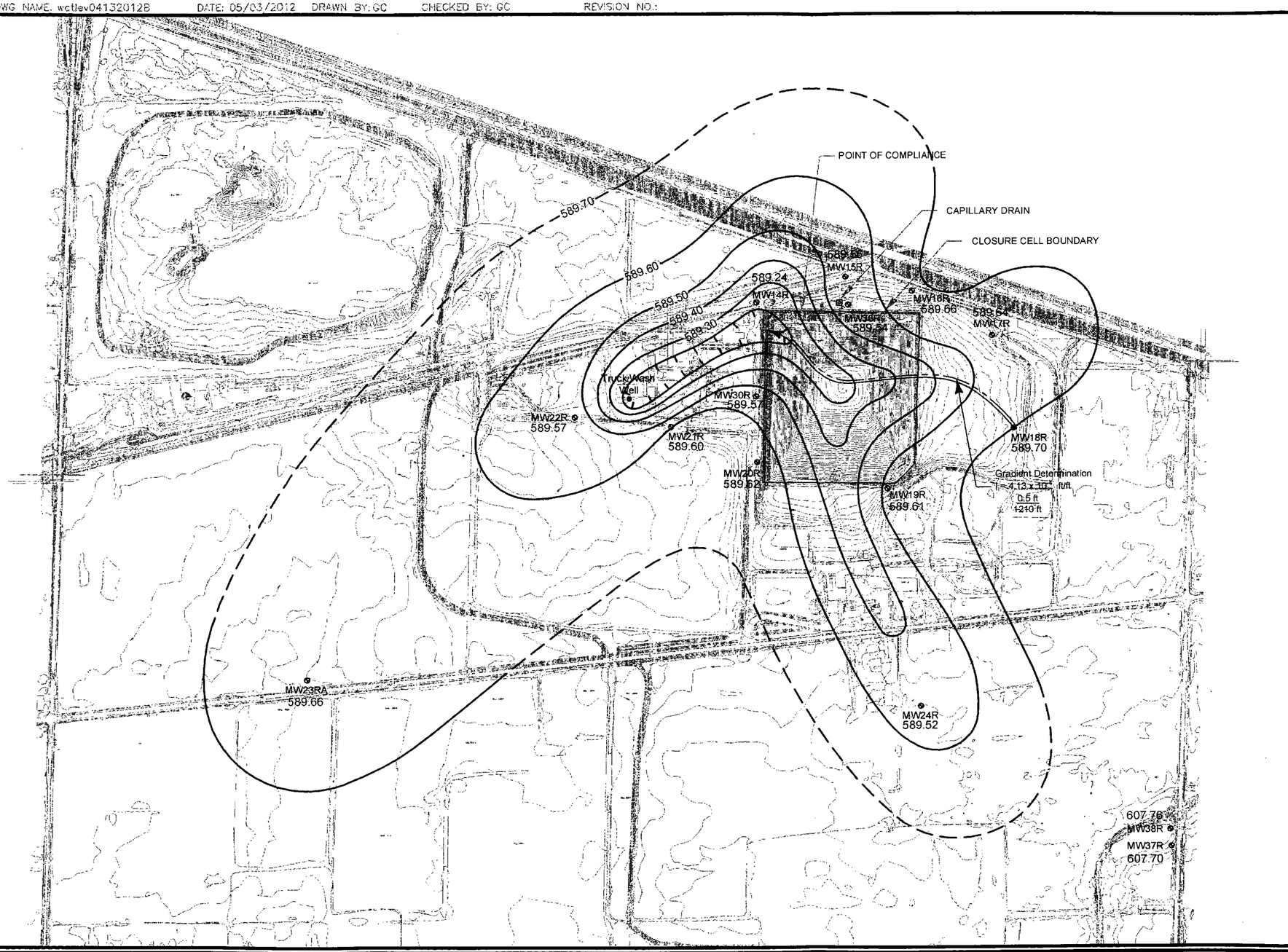
**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144772 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-144392 | Initial Weight/Volume: | 1033.6 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/29/2012 1141 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/26/2012 1649 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.97 |
| Aroclor 1221 | ND | | 0.97 |
| Aroclor 1232 | ND | | 0.97 |
| Aroclor 1242 | ND | | 0.97 |
| Aroclor 1248 | ND | | 0.97 |
| Aroclor 1254 | ND | | 0.97 |
| Aroclor 1260 | ND | | 0.97 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 79 | | 30 - 136 |
| Tetrachloro-m-xylene | 89 | | 25 - 120 |

DWG NAME: wctlev04132012B DATE: 05/03/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




# Legend

MW38R BEDROCK MONITORING WELL

601.25 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF HORIZONTAL FLOW

POINT OF COMPLIANCE

CLOSURE CELL BOUNDARY

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER ELEVATION CONTOUR

GRADIENT DETERMINATION

## NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO-METRIC ENGINEERING, INC.
2. CONTOUR INTERVAL IS 0.10 FEET.

THE HORIZONTAL FLOW RATE IN THE BEDROCK IS APPROXIMATED USING DARCY'S RELATIONSHIP:

$v = ki/n = 213.5$ ft/yr.

WHERE: $k = 5.17 \times 10^3$ ft/yr. *

$i = 4.13 \times 10^{-4}$ ft/ft.

$n = 0.01$ (fracture porosity) **

* FROM THE GOLDER ASSOCIATES REPORT TITLED "PHASE I GROUNDWATER MONITORING PROGRAM," CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED MARCH 1986.

** FROM THE GOLDER ASSOCIATES REPORT TITLED "SUMMARY AND CHARACTERIZATION OF THE SITE HYDROGEOLOGIC CONDITIONS", CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED SEPTEMBER 1983.

Note: Gradient across site is so low that resulting flow map should be considered an approximation only.

N

Scale

0' 250' 500' 1000'

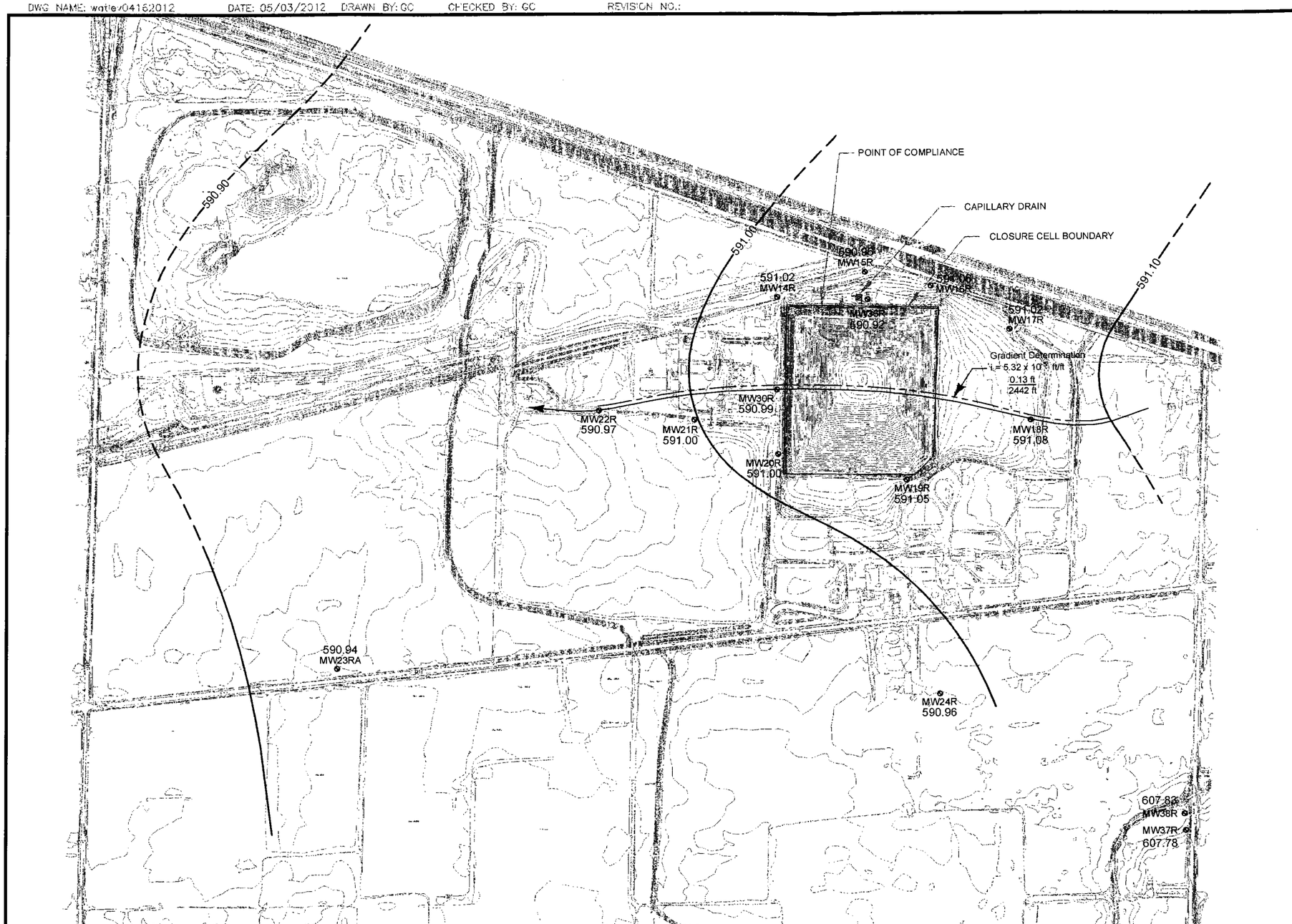
Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Pumping Conditions, April 13, 2012

Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Pumping Conditions,
April 13, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure 1

DWG NAME: watlex04162012 DATE: 05/03/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




## Legend

- MW38R BEDROCK MONITORING WELL
- 601.25 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF HORIZONTAL FLOW
- POINT OF COMPLIANCE
- CLOSURE CELL BOUNDARY
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER ELEVATION CONTOUR
- GRADIENT DETERMINATION

NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO–METRIC ENGINEERING, INC.
2. CONTOUR INTERVAL IS 0.10 FEET.

THE HORIZONTAL FLOW RATE IN THE BEDROCK IS APPROXIMATED USING DARCY'S RELATIONSHIP:

$v = ki/n = 27.5$ ft/yr.

WHERE: $k = 5.17 \times 10^3$ ft/yr. *

$i = 5.32 \times 10^{-5}$ ft/ft.

$n = 0.01$ (fracture porosity) **

* FROM THE GOLDER ASSOCIATES REPORT TITLED "PHASE I GROUNDWATER MONITORING PROGRAM," CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED MARCH 1986.

** FROM THE GOLDER ASSOCIATES REPORT TITLED "SUMMARY AND CHARACTERIZATION OF THE SITE HYDROGEOLOGIC CONDITIONS", CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED SEPTEMBER 1983.

Note: Gradient across site is so low that resulting flow map should be considered an approximation only.

N

Scale

0' 250' 500' 1000'

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Non-Pumping Conditions, April 16, 2012

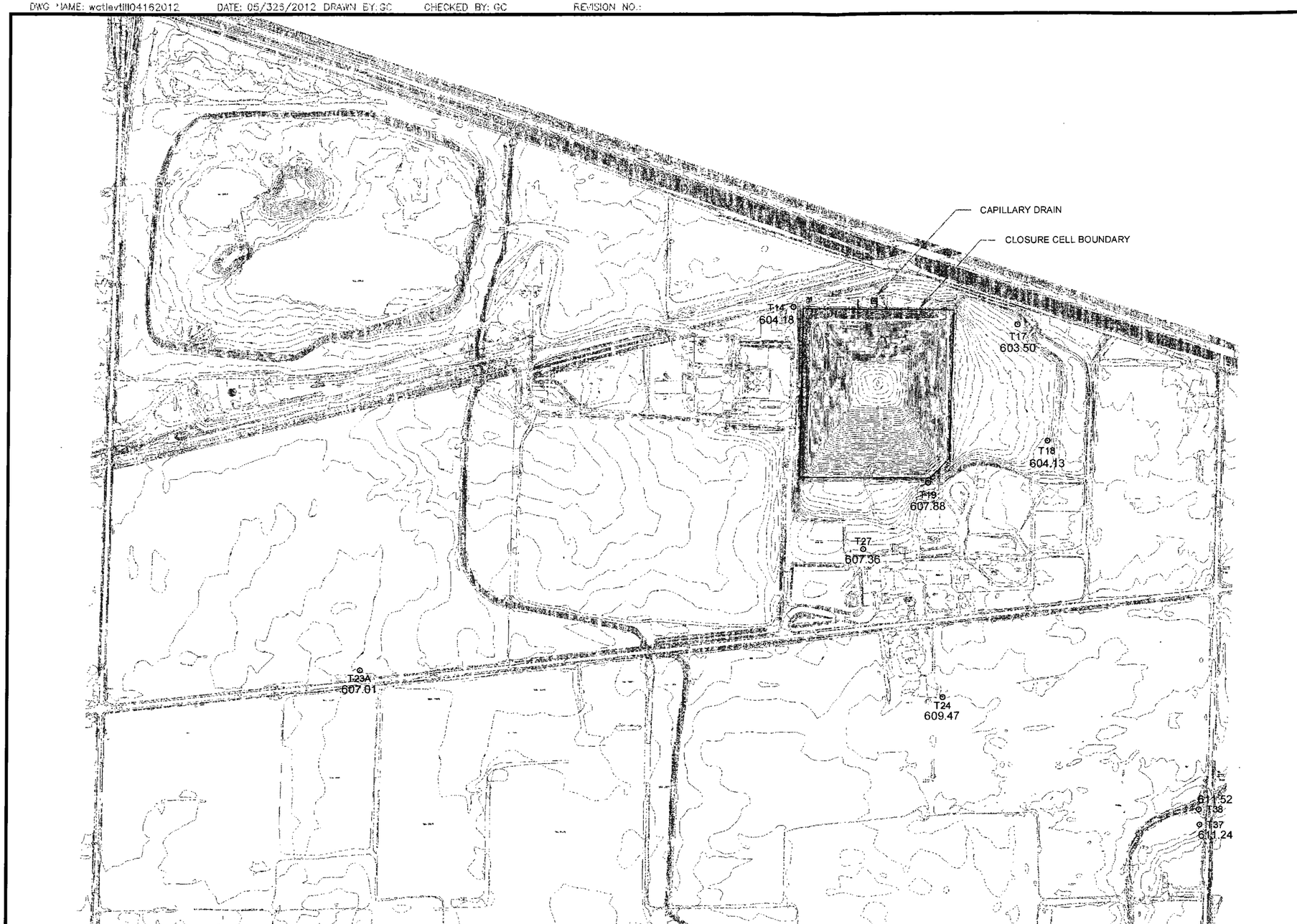
Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Non-Pumping Conditions,
April 16, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure

2

DWG NAME: wctlevtill04162012 DATE: 05/325/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




## Legend

| | |
|---|---|
| ⊙ T37 | TILL MONITORING WELL |
| 607.98 | GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL) |
| ——— | CLOSURE CELL BOUNDARY |

NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO–METRIC ENGINEERING, INC.

Groundwater flow direction in this unit is dominantly vertical as discussed in the Cox-Colvin & Associates report "Technical Position Paper on the Occurrence Movement and Quality of Groundwater at Waste Management of Ohio, Inc., Vickery Facility" dated March 23, 2000. Because groundwater flow is dominantly vertical, groundwater flow direction can not be accurately depicted on a contoured flow map. To avoid mis-representation of flow within this unit, the data have not been contoured.

N

Scale

0' 250' 500' 1000'

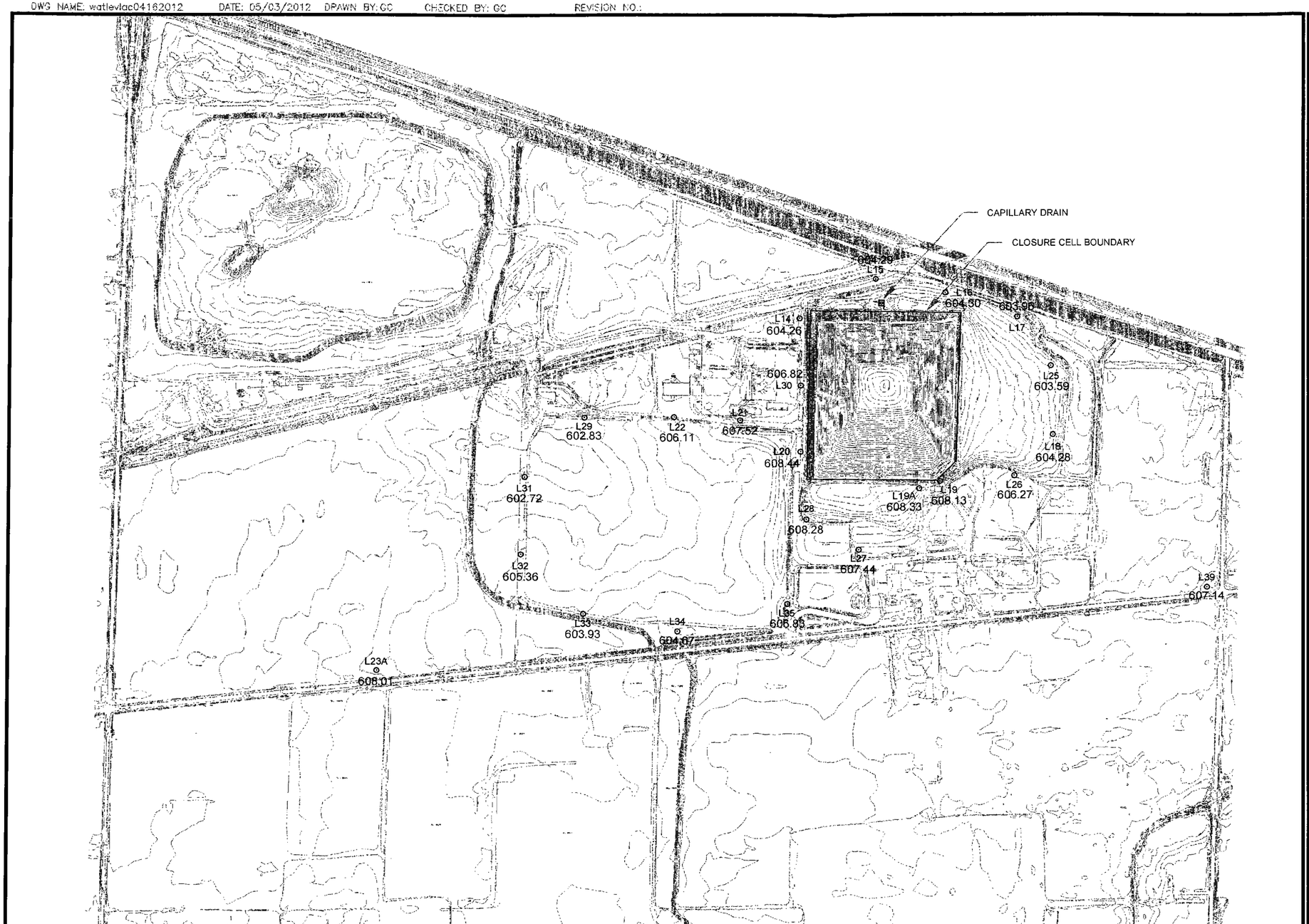
Potentiometric Elevation Contours, Till Monitoring Wells, April 16, 2012

Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Potentiometric Elevation Contours, Till Monitoring Wells,
April 16, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure
3

DWG NAME: watlevlac04162012 DATE: 05/03/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




## Legend

| | |
|---|---|
| ⊙ L23A | LACUSTRINE MONITORING WELL |
| 609.52 | GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL) |
| ——— | CLOSURE CELL BOUNDARY |

NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO–METRIC ENGINEERING, INC.

Groundwater flow direction in this unit is dominantly vertical as discussed in the Cox-Colvin & Associates report "Technical Position Paper on the Occurrence Movement and Quality of Groundwater at Waste Management of Ohio, Inc., Vickery Facility" dated March 23, 2000. Because groundwater flow is dominantly vertical, groundwater flow direction can not be accurately depicted on a contoured flow map. To avoid mis-representation of flow within this unit, the data have not been contoured.

N

Scale

0' 250' 500' 1000'

Phreatic Surface Contours, Lacustrine Monitoring Wells, April 16, 2012

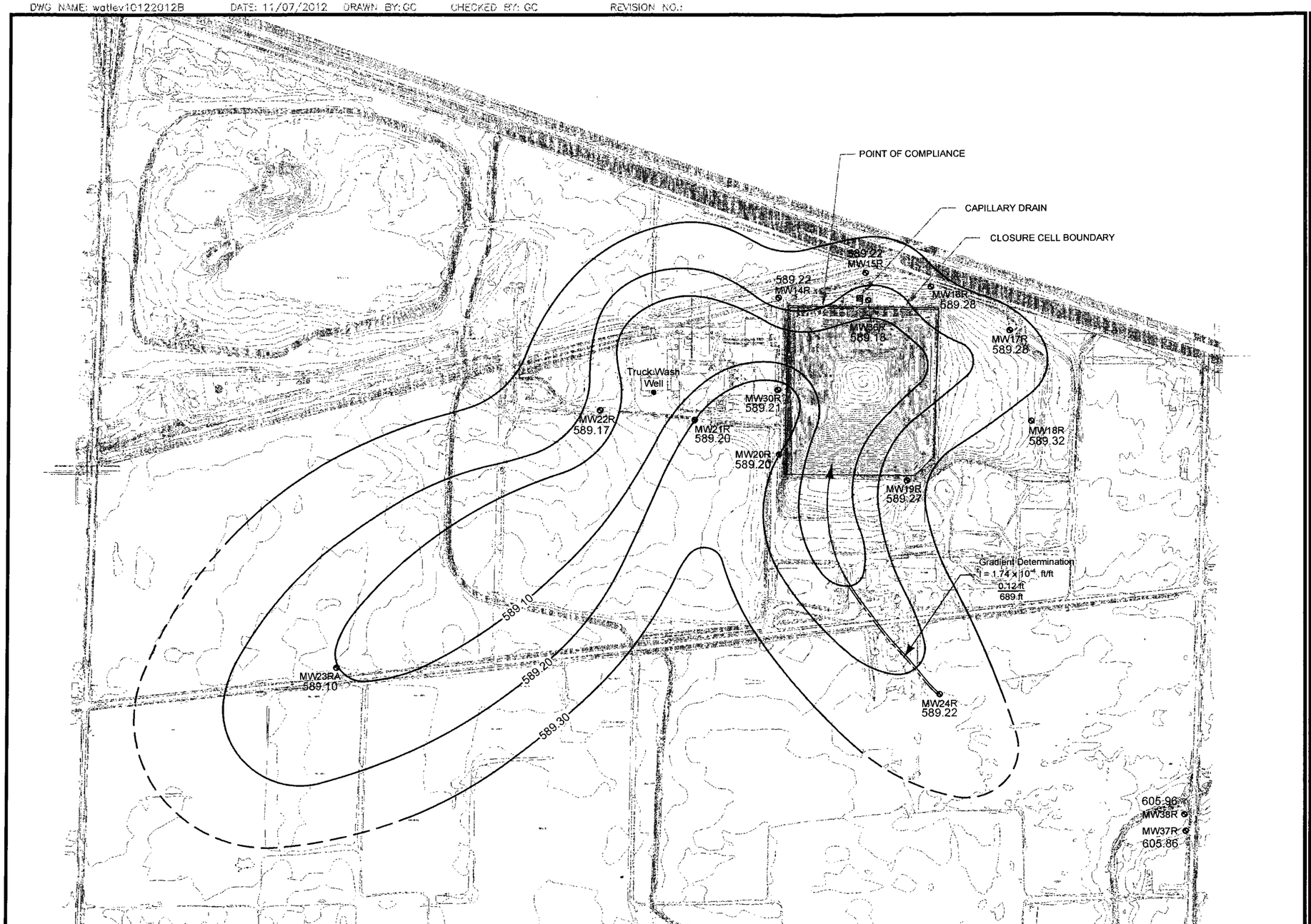
Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Phreatic Surface Contours, Lacustrine Monitoring Wells,
April 16, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure

4

DWG NAME: watlev10122012B DATE: 11/07/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




# Legend

MW38R BEDROCK MONITORING WELL

601.25 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF HORIZONTAL FLOW

POINT OF COMPLIANCE

CLOSURE CELL BOUNDARY

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER ELEVATION CONTOUR

GRADIENT DETERMINATION

## NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO–METRIC ENGINEERING, INC.
2. CONTOUR INTERVAL IS 0.1 FEET.

THE HORIZONTAL FLOW RATE IN THE BEDROCK IS APPROXIMATED USING DARCY'S RELATIONSHIP:

$v = ki/n = 89.96$ ft/yr.

WHERE: $k = 5.17 \times 10^{3}$ ft/yr. *

$i = 1.74 \times 10^{-4}$ ft/ft.

$n = 0.01$ (fracture porosity) **

* FROM THE GOLDER ASSOCIATES REPORT TITLED "PHASE I GROUNDWATER MONITORING PROGRAM," CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED MARCH 1986.

** FROM THE GOLDER ASSOCIATES REPORT TITLED "SUMMARY AND CHARACTERIZATION OF THE SITE HYDROGEOLOGIC CONDITIONS", CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED SEPTEMBER 1983.

Note: Gradient across site is so low that resulting flow map should be considered an approximation only.

N

Scale

0' 250' 500' 1000'

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Pumping Conditions, October 12, 2012

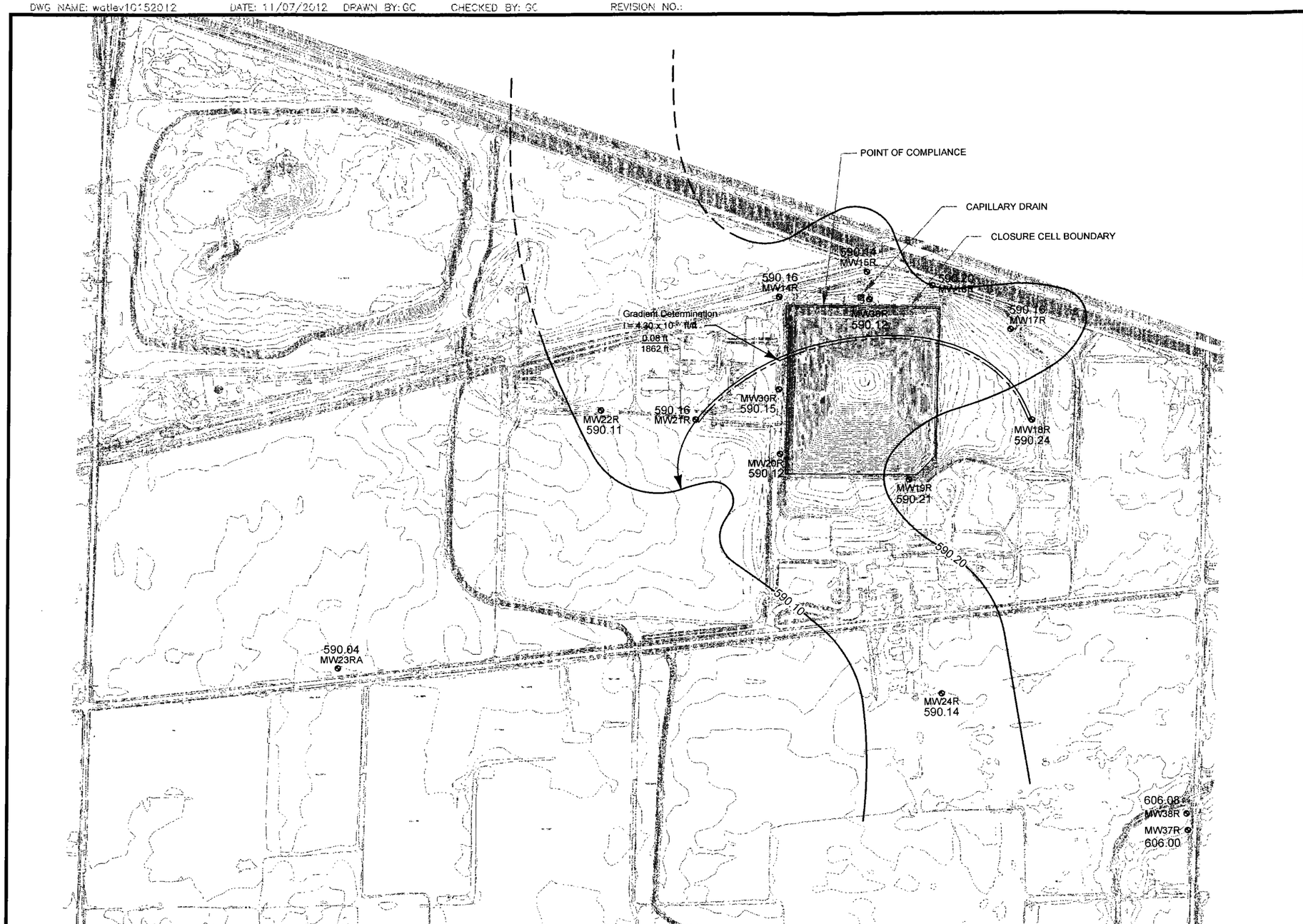
Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Pumping Conditions,
October 12, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure

1

DWG NAME: watlev10152012 DATE: 11/07/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




# Legend

MW38R BEDROCK MONITORING WELL

606.08 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF HORIZONTAL FLOW

POINT OF COMPLIANCE

CLOSURE CELL BOUNDARY

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER ELEVATION CONTOUR

GRADIENT DETERMINATION

## NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO-METRIC ENGINEERING, INC.
2. CONTOUR INTERVAL IS 0.1 FEET.

THE HORIZONTAL FLOW RATE IN THE BEDROCK IS APPROXIMATED USING DARCY'S RELATIONSHIP:

$v = ki/n = 22.2$ ft/yr.

WHERE: $k = 5.17 \times 10^3$ ft/yr. *

$i = 4.30 \times 10^{-5}$ ft/ft.

$n = 0.01$ (fracture porosity) **

* FROM THE GOLDER ASSOCIATES REPORT TITLED "PHASE I GROUNDWATER MONITORING PROGRAM," CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED MARCH 1986.

** FROM THE GOLDER ASSOCIATES REPORT TITLED "SUMMARY AND CHARACTERIZATION OF THE SITE HYDROGEOLOGIC CONDITIONS", CHEMICAL WASTE MANAGEMENT, INC. VICKERY FACILITY, DATED SEPTEMBER 1983.

Note: Gradient across site is so low that resulting flow map should be considered an approximation only.

N

Scale

0' 250' 500' 1000'

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Non-Pumping Conditions, October 15, 2012

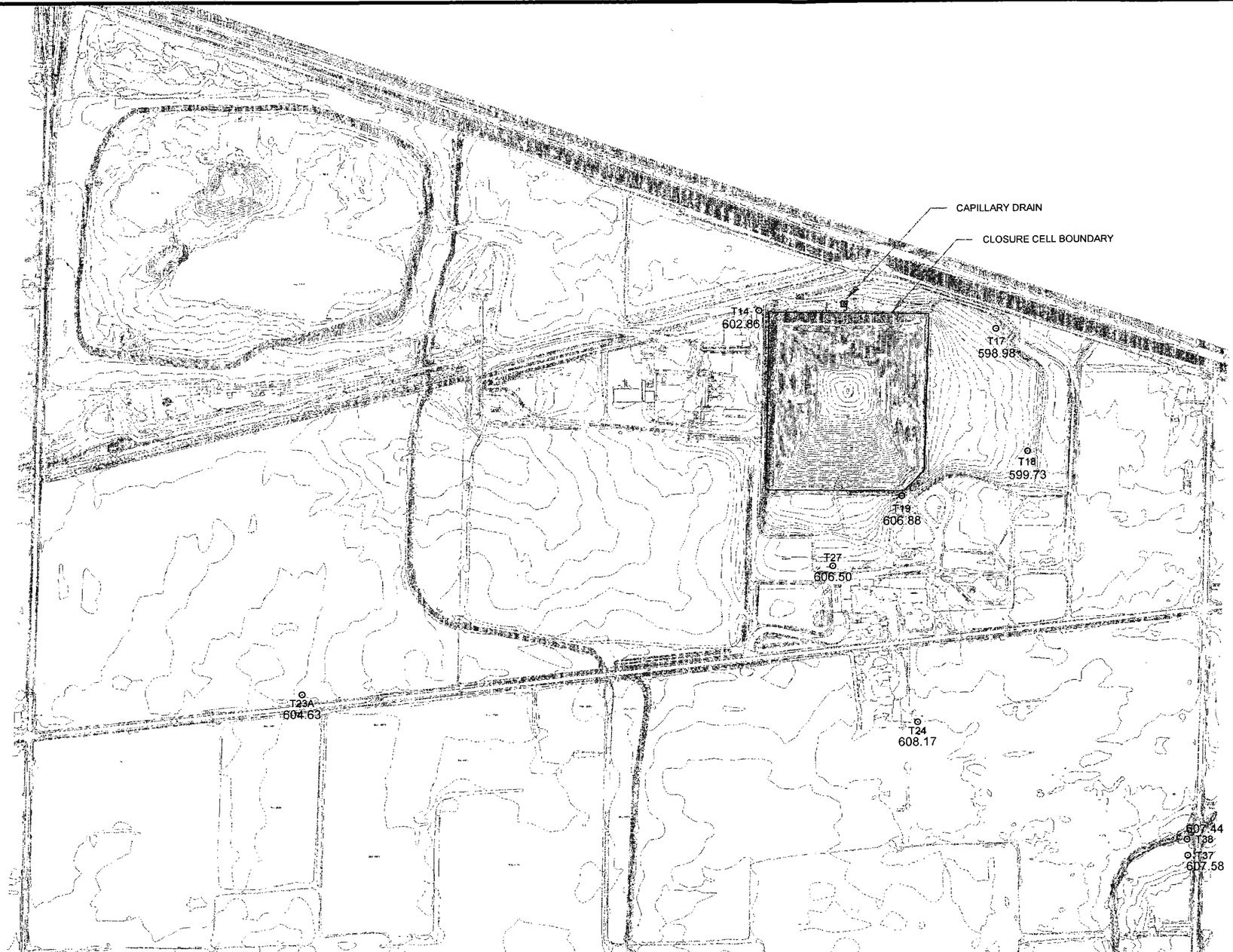
Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Potentiometric Elevation Contours, Bedrock Monitoring Wells Under Non-Pumping Conditions,
October 15, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure

2

DWG NAME: watlevtill10152012 DATE: 11/07/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




## Legend

| | |
|---|---|
| ⊙ T37 | TILL MONITORING WELL |
| 607.98 | GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL) |
| ——— | CLOSURE CELL BOUNDARY |

NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO–METRIC ENGINEERING, INC.

Groundwater flow direction in this unit is dominantly vertical as discussed in the Cox-Colvin & Associates report "Technical Position Paper on the Occurrence Movement and Quality of Groundwater at Waste Management of Ohio, Inc., Vickery Facility" dated March 23, 2000. Because groundwater flow is dominantly vertical, groundwater flow direction can not be accurately depicted on a contoured flow map. To avoid mis-representation of flow within this unit, the data have not been contoured.

N

Scale

0' 250' 500' 1000'

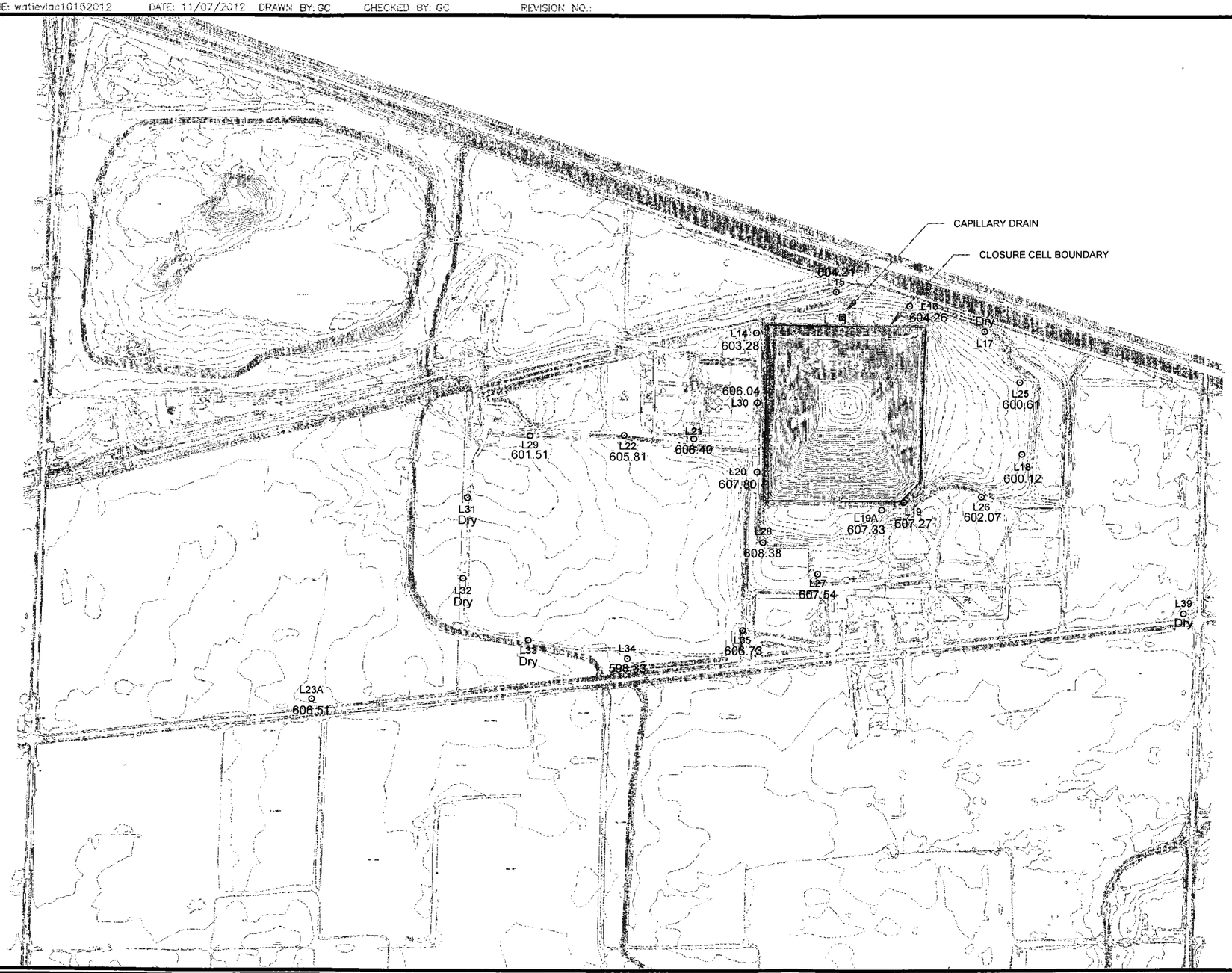
Potentiometric Elevation Contours, Till Monitoring Wells, October 15, 2012

Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Potentiometric Elevation Contours, Till Monitoring Wells,
October 15, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure
3

DWG NAME: watlevlac10152012 DATE: 11/07/2012 DRAWN BY: GC CHECKED BY: GC REVISION NO.:




# Legend

| | |
|---|---|
| ⊙ L23A | LACUSTRINE MONITORING WELL |
| 609.52 | GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL) |
| ——— | CLOSURE CELL BOUNDARY |

## NOTES:

1. TOPOGRAPHICAL INFORMATION SUPPLIED BY AERO–METRIC ENGINEERING, INC.

Groundwater flow direction in this unit is dominantly vertical as discussed in the Cox-Colvin & Associates report "Technical Position Paper on the Occurrence Movement and Quality of Groundwater at Waste Management of Ohio, Inc., Vickery Facility" dated March 23, 2000. Because groundwater flow is dominantly vertical, groundwater flow direction can not be accurately depicted on a contoured flow map. To avoid mis-representation of flow within this unit, the data have not been contoured.

N

Scale

0' 250' 500' 1000'

Phreatic Surface Contours, Lacustrine Monitoring Wells, October 15, 2012

Cox-Colvin & ASSOCIATES, INC. ENVIRONMENTAL SERVICES

Phreatic Surface Contours, Lacustrine Monitoring Wells,
October 15, 2012,
Vickery Environmental, Inc., Vickery, Ohio

Figure

4

Client: Vickery Environmental, Inc.

Job Number: 280-27838-1

**Client Sample ID:** DRAIN

Lab Sample ID: 280-27838-1
Client Matrix: Water

Date Sampled: 04/17/2012 1040
Date Received: 04/18/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-117119 | Instrument ID: | MSV_R1 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | R6224.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 04/26/2012 1314 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 04/26/2012 1314 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,2-Dichloroethane | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | | 10 |
| trans-1,2-Dichloroethene | ND | | 10 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| 1,2-Dichloropropane | ND | | 5.0 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| Tetrachloroethene | ND | | 5.0 |
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |
| Chloromethane | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| Toluene | ND | | 5.0 |
| Ethanol | ND | | 100 |
| Dichlorofluoromethane | ND | | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 70 - 127 |
| Toluene-d8 (Surr) | 104 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 108 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 108 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-27838-1

**Client Sample ID:** DRAIN

Lab Sample ID: 280-27838-1
Client Matrix: Water

Date Sampled: 04/17/2012 1040
Date Received: 04/18/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-116714 | Instrument ID: | GCS_W |
| Prep Method: | 3510C | Prep Batch: | 280-116213 | Initial Weight/Volume: | 1041 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 04/23/2012 1412 | | | Injection Volume: | 1 uL |
| Prep Date: | 04/19/2012 1627 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.96 |
| Aroclor 1221 | ND | | 0.96 |
| Aroclor 1232 | ND | | 0.96 |
| Aroclor 1242 | ND | | 0.96 |
| Aroclor 1248 | ND | | 0.96 |
| Aroclor 1254 | ND | | 0.96 |
| Aroclor 1260 | ND | | 0.96 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 92 | | 30 - 136 |
| Tetrachloro-m-xylene | 88 | | 25 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34755-1

**Client Sample ID:** **DRAIN**

Lab Sample ID: 280-34755-1
Client Matrix: Water

Date Sampled: 10/16/2012 1035
Date Received: 10/17/2012 0900

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 280-144459 | Instrument ID: | VMS_P |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | P2912.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 10/27/2012 1554 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 10/27/2012 1554 | | | | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 |
| 1,1,2-Trichloroethane | ND | | 5.0 |
| 1,1-Dichloroethane | ND | | 5.0 |
| 1,1-Dichloroethene | ND | | 5.0 |
| 1,2-Dichlorobenzene | ND | | 10 |
| 1,2-Dichloroethane | ND | | 4.0 |
| 1,2-Dichloropropane | ND | | 5.0 |
| 1,3-Dichlorobenzene | ND | | 10 |
| 1,4-Dichlorobenzene | ND | | 10 |
| 2-Butanone (MEK) | ND | | 50 |
| 2-Chloroethyl vinyl ether | ND | | 20 |
| Benzene | ND | | 4.0 |
| Bromodichloromethane | ND | | 5.0 |
| Bromoform | ND | | 5.0 |
| Bromomethane | ND | | 10 |
| Carbon tetrachloride | ND | | 5.0 |
| Chlorobenzene | ND | | 5.0 |
| Chloroethane | ND | | 10 |
| Chloroform | ND | | 5.0 |
| Chloromethane | ND | | 10 |
| cis-1,2-Dichloroethene | ND | | 10 |
| cis-1,3-Dichloropropene | ND | | 5.0 |
| Dibromochloromethane | ND | | 5.0 |
| Dichlorofluoromethane | ND | | 10 |
| Ethanol | ND | | 100 |
| Ethylbenzene | ND | | 5.0 |
| Methylene Chloride | ND | | 5.0 |
| Tetrachloroethene | ND | | 5.0 |
| Toluene | ND | | 5.0 |
| trans-1,2-Dichloroethene | ND | | 10 |
| trans-1,3-Dichloropropene | ND | | 5.0 |
| Trichloroethene | ND | | 4.0 |
| Trichlorofluoromethane | ND | | 10 |
| Vinyl chloride | ND | | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 127 |
| Toluene-d8 (Surr) | 87 | | 80 - 125 |
| 4-Bromofluorobenzene (Surr) | 92 | | 78 - 120 |
| Dibromofluoromethane (Surr) | 101 | | 77 - 120 |

Client: Vickery Environmental, Inc.

Job Number: 280-34755-1

**Client Sample ID:** **DRAIN**

Lab Sample ID: 280-34755-1
Client Matrix: Water

Date Sampled: 10/16/2012 1035
Date Received: 10/17/2012 0900

**8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8082 | Analysis Batch: | 280-144477 | Instrument ID: | GCS_P3 |
| Prep Method: | 3510C | Prep Batch: | 280-143779 | Initial Weight/Volume: | 1052 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 10000 uL |
| Analysis Date: | 10/26/2012 1930 | | | Injection Volume: | 1 uL |
| Prep Date: | 10/24/2012 0944 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Aroclor 1016 | ND | | 0.95 |
| Aroclor 1221 | ND | | 0.95 |
| Aroclor 1232 | ND | | 0.95 |
| Aroclor 1242 | ND | | 0.95 |
| Aroclor 1248 | ND | | 0.95 |
| Aroclor 1254 | ND | | 0.95 |
| Aroclor 1260 | ND | | 0.95 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl | 79 | | 30 - 136 |
| Tetrachloro-m-xylene | 108 | | 25 - 120 |