UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

ADMINISTRATIVE RECORD

REMOVAL ACTION

SITE NAME: BUFFALO COMPRESSOR STATION

BUFFALO, HARPER COUNTY, OKLAHOMA

SITE NUMBER: OK0000605396

VOLUME 1 OF III

995305

Internet Address (URL) - http://www.epa.gov/earth1r6/
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INTRODUCTION

The "Administrative Record" is the collection of documents which form the basis for the U.S. Environmental Protection Agency's (EPA) selection of a response action at a Superfund site. Superfund is the name given to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) which can be found in Title 42 of the U.S. Code (U.S.C.) at Sections 9601 through 9675. Response actions under Superfund can be either "removal action" or "remedial action". This Administrative Record involves a *removal action*. As EPA decides what to do at the site of a release of hazardous substances, EPA compiles documents concerning the site and EPA's decision into an "Administrative Record File." Documents may be added to the "Administrative Record File" from time to time. Once the EPA Regional Administrator or the Regional Administrator's delegate signs the Action Memorandum memorializing the selection of the removal action, the documents which form the basis for the selection of the removal action are known as the "Administrative Record."

The Administrative Record will be available for public review during normal business hours at EPA, Region 6 offices which is located at the address given below, and it will also be available at the Buffalo Public Library, 11 E. Turner Street, Buffalo, Oklahoma 73834. The Administrative Record is treated as a non-circulating reference document. Individuals may photocopy any documents contained in the Administrative Record File, according to the photocopying procedures at the EPA, Region 6 offices and at the repository located near the Site. The Administrative Record will be maintained at the local repository(s) until further notice. EPA may send additional documents to the repository (s) as work progresses at the Site

EPA may hold formal public comment periods at certain stages of the response process. The public is urged to use the formal public comment periods to submit written comments to EPA regarding the removal at the Site. However, EPA welcomes written comments at any time. Please send all comments to:

Removal Administrative Record Coordinator (6SF-R)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

Except as explained below, this index and the record was compiled in accordance with EPA's Final Guidance on Administrative Records for Selecting CERCLA Response Actions, Office of

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Solid Waste and Emergency Response (OSWER) Directive Number 9833.3A-1 (December 3, 1990), and in accordance with Superfund Removal Procedures Public Participation Guidance for On-scene Coordinators: Community Relations and the Administrative Record, OSWER 9360.3-05 (July 1992), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300.

According to OSWER Directive No. 9833.3A-1, Page 37, each Region should maintain a compendium of guidance documents which are frequently used in selecting response actions, and the record located at or near the site of response action should contain an index to the compendium of response selection guidance documents. However, the EPA-headquarters generated compendium of guidance documents has not been updated since March 22, 1991 [see CERCLA Administrative Records: First Update of the Compendium of Documents Used for Selecting CERCLA Response Actions (March 1991)]. Moreover, the EPA, Region 6 Superfund Division Director has decided that developing and maintaining a compendium index in Region 6 would require extensive resources which are better utilized elsewhere in the Division. Accordingly, the Division Director has decided not to maintain an indexed compendium of response-selection guidance documents. Instead, consistent with 40 CFR Sections 300.805 (a) (2), 300.810 (a) (2), and OSWER Directive No. 9833.3A-1, Page 37, the Region has listed, in the Administrative Record Index (or in bibliographies of documents listed in the index), all guidance documents which may form a basis for the selection of this response action.. See *Section I* of the Administrative Record. Unless the guidance documents indexed were generated specifically for the Site, the guidance documents may not be physically present in the Administrative Record.

Documents listed as bibliographic sources for other documents in the record might not be listed separately in the Site Index. Where a document is listed in the Site Index but not located among the documents which EPA has made available in the repository, EPA will, upon request, include the document in the repository. This applies to verified sampling data, chain of custody forms, and guidance and policy documents. It does not apply to documents in EPA's "Confidential File". Requests for such documents should be addressed to the Removal Administrative Record Coordinator at the address listed above. Copies of guidance documents can also be obtained by calling the RCRA/Superfund/Title 3 Hotline at (800) 424-9346, or by accessing on your computer the US EPA Internet Home Page at: US EPA Headquarters, **http://www.epa.gov**. Then follow these instructions: click "Databases and Software"; click "General Information"; click "EPA's Information System Inventory (ISI)"; click "Index"; click "Enforcement" or "Superfund". Then, if you clicked "Enforcement", you will be on the "OECA" Page, where you will click "Policy & Guidance"; click "Statute Specific Policy Categories"; click "Site Remediation (Superfund)"; click on any of the listed "CERCLA (Superfund) Enforcement Documents" categories", including "Other Guidance and Documents," or you can click on "New Documents" for any recent policy additions. If you clicked on "Superfund" instead of "Enforcement", then click "Topics", or "Publications" and follow the menu.

COMMONLY USED ACRONYMS

ADPC&E	Arkansas Department of Pollution Control & Ecology
ATSDR	Agency for Toxic Substances and Disease Registry
CDC	Centers for Disease Control and Prevention
CERCLA	Comprehensive Environmental Response Compensation & Liability Act of 1980
EPA	United States Environmental Protection Agency
RPB	Response and Prevention Branch (formerly ERB)
ERRS	Emergency and Rapid Response Services [EPA Contractor] (Formerly ERCS)
FOIA	Freedom of Information Act
LDEQ	Louisiana Department of Environmental Quality
NFRAP	No Further Remedial Action Planned Summary
NMED	New Mexico Environment Department (formerly NMEID)
NPL	National Priorities List
OPA	Oil Pollution Act
OSC	On-Scene Coordinator
ODEQ	Oklahoma Department of Environmental Quality (formerly OSDH)
OSHA	Occupational Safety and Health Administration
POLREP	Pollution Report
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act of 1976
SARA	Superfund Amendment and Reauthorization Act of 1986
START	Superfund Technical Assessment and Response Team [EPA Contractor] (formerly TAT)
TNRCC	Texas Natural Resources Conservation Commission (formerly TWC)
UAO	Unilateral Administrative Order

ADMINISTRATIVE RECORD, HASTINGS RADIOCHEMICAL REMOVAL ACTION
SECTION I (GUIDANCE DOCUMENTS - NON SITE SPECIFIC)

DOCUMENT DATE	2/1/88
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Superfund Removal Procedures, Revision 3, OSWER 9360.-3B
AUTHOR	EPA
DESCRIPTION	Superfund removal procedures (superceded in part by later guidance).

DOCUMENT DATE	4/1/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Quality Assurance/Quality Control Guidance, OSWER 9360.4-01
AUTHOR	EPA
DESCRIPTION	Procedures for QA/QC for data collection activities and review of laboratory

DOCUMENT DATE	12/1/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Action Memorandum Guidance, OSWER 9360.3-01
AUTHOR	EPA
DESCRIPTION	Outlines the minimum requirements for an action memorandum.

DOCUMENT DATE	12/3/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Final Guidance on Administrative Records, OSWER 9833.3A-1
AUTHOR	EPA
DESCRIPTION	How to compile and establish administrative records under CERCLA.

DOCUMENT DATE	9/1/91
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Guidance on the Consideration of ARARs, OSWER 9360.3-02
AUTHOR	EPA
DESCRIPTION	Potential Applicable or Relevant and Appropriate Requirements (ARARs).

ADMINISTRATIVE RECORD, HASTINGS RADIOCHEMICAL REMOVAL ACTION
SECTION I (GUIDANCE DOCUMENTS - NON SITE SPECIFIC)

DOCUMENT DATE	4/1/92
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Removal Enforcement Guidance for OSCs, OSWER 9360.3-06
AUTHOR	EPA
DESCRIPTION	Summary of authorities for conducting enforcement activities during removals.

DOCUMENT DATE	7/1/92
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Public Participation Guidance for OSCs, OSWER 9360.3-05
AUTHOR	EPA
DESCRIPTION	Removal action public participation and administrative record activities.

DOCUMENT DATE	8/1/93
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Guidance on Conducting Non-Time-Critical Removal Actions, OSWER 9360.0-32
AUTHOR	EPA
DESCRIPTION	Non-time-critical removal actions and the National Contingency Plan.

DOCUMENT DATE	6/1/94
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Removal Response Reporting: POLREPs and OSC Reports, OSWER 9360.3-03
AUTHOR	EPA
DESCRIPTION	Clarifies removal actions reporting criteria.

DOCUMENT DATE	9/1/96
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Response Management: Start-up to Close-out, OSWER 9360.3-04
AUTHOR	EPA
DESCRIPTION	Summarizes guidance and statutory authorities for response management.

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INDEX

May 31, 2002

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ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	1
LAST PAGE	55
DOCUMENT DATE	December 2, 1994
DOCUMENT TYPE	Report w/ Attachments
DOCUMENT TITLE	PCB General Site Characterization. Former Buffalo Compressor Station
AUTHOR	Unspecified
AUTHOR'S COMPANY	ERM-Rocky Mountain, Inc.
RECIPIENT	Unspecified
RECIPIENT'S COMPANY	U.S. EPA, Region 6 *and* Williams Natural Gas Company
DESCRIPTION	PCB general site characterization with the following attachments:

0014-0015	Figure 1	Site Location Map
0016-0017	Figure 2	Site Diagram
0018-0019	Table 1	Relative Percent Difference Values
0020-0021	Table 2	Analytical Results
0022-0024	Appendix A	Site Photos
0025-0025	Appendix B	Waste Disposal Documents (None)
0026-0055	Appendix C	Analytical Reports

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SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	**56**
LAST PAGE	**86**
DOCUMENT DATE	**April 6, 1995**
DOCUMENT TYPE	**Report w/ Attachments**
DOCUMENT TITLE	**PCB Site Characterization, Williams Natural Gas Facility, Project No. 11885**
AUTHOR	**Unspecified**
AUTHOR'S COMPANY	**Burlington Environmental, Inc., *A Philip Environmental Company***
RECIPIENT	**Unspecified**
RECIPIENT'S COMPANY	**U.S. EPA, Region 6 *and* Williams Natural Gas**
DESCRIPTION	**PCB Site Characterization with following attachments:**

0062-0065	**Figures**	**Maps/Diagrams/Drawings**
0066-0068	**Tables:**	**PCB Analytical Results for Concrete Wipe Samples**
0069-0078	**Appendix A.**	**Sample Logs/Chain of Custody Documentation**
0079-0083	**Appendix B.**	**ETS Analytical Results**
0084-0086	**Appendix C**	**Manifests and Certificates of Disposal**

May 31, 2002

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	87
LAST PAGE	458
DOCUMENT DATE	April 23, 2001
DOCUMENT TYPE	Report w/ Attachments
DOCUMENT TITLE	PCB Site Characterization, Buffalo Compressor Station, Buffalo, OK, NE 1/4, NE 1/4, Sec. 1, T27N, R23W, Harper County. Project No. 50007055.
AUTHOR/s	John R. Rockhold, P.G., CGWP, Senior Project Manager *and* Michael S. Kukuk, P.G., Associate Principal
AUTHOR'S COMPANY	Terracon
RECIPIENT	Mark Sullivan
RECIPIENT'S COMPANY	Williams Gas Pipelines South Central *and* U.S. EPA, Region 6
DESCRIPTION	Final Emergency Response Report describing the U.S. EPA's response actions at the Service Waste, Inc., fire site with attachments:

0109-0110	Appendix A:	Figure 1. Site Vicinity Map
0111-0111		Figure 2. Site Diagram
0112-0112		Figure 3. Impoundment Area Grid - PCB Results
0113-0113		Figure 4. Air Receiver Discharge Area Grid
0114-0114		Figure 5. Impoundment Area Grid - PCB Results
0115-0119	Appendix B:	Table 1. PCB Analytical Results
0120-0120		Table 2. RCRA Metal Analysis Soils (11-20-2000)
0121-0122		Table 3. SVOC Analysis Soils (11-2000)
0123-0125	Appendix C:	Standard Operating Procedures
0126-0128	Appendix D:	Photo Log
0129-0354	Appendix E:	Laboratory Reports
0355-0361	Appendix F:	Final Report and Letter from Williams to EPA Region V1 (3-10-95) w/ Attachments:
0362-0370	Figures	Maps/Drawings/Diagrams
0371-0379	Tables	Table A - Tables 1 thru 7
0380-0458	Appendices:	Reports/Analytical Reports

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REMOVAL ACTION INDEX
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE:	**459**
LAST PAGE:	**473**
DOCUMENT DATE:	**May 20, 2002**
DOCUMENT TYPE:	**Removal Action Memorandum w/ Attachments**
DOCUMENT TITLE:	**Request for a Time Critical Removal Action at the Buffalo Compressor Station Site, Harper County, Oklahoma**
AUTHOR:	**Rita Engblom, Federal OSC (On-Scene Coordinator)**
AUTHOR'S COMPANY:	**U.S. EPA, Region 6**
RECIPIENT:	**Myron O. Knudson, P.E., Director**
RECIPIENT'S COMPANY:	**U.S. EPA, Region 6**
DESCRIPTION:	**Request and documents for a Removal Action at Buffalo Compressor Station Site. Attachments are as follows:**

0471-0471	**Attachment 1**	**Site Location Map**
0472-0742	**Attachment 2**	**Site Map**
0473-0473	**Attachment 3**	**Enforcement Attachment has been withheld as Enforcement Sensitive and is located only in separate confidential files at U.S. EPA, Region 6**

May 31, 2002

PCB General Site Characterization

FORMER BUFFALO COMPRESSOR STATION

December 2, 1994

Prepared for:

Williams Natural Gas Company
One Williams Center
Tulsa, Oklahoma

Prepared by:

ERM-Rocky Mountain, Inc.
5950 South Willow Drive, Suite 200
Englewood, Colorado 80111

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APPENDIX B WASTE DISPOSAL DOCUMENTS
APPENDIX C ANALYTICAL REPORTS
APPENDIX D CHAIN OF CUSTODY FORMS

EXECUTIVE SUMMARY

Historically, Williams Natural Gas Company (WNG) used a commercially available flame-retardant lubricant that contained polychlorinated biphenyls, (PCBs) in some of its air compressor systems. ERM-Rocky Mountain, Inc. (ERM) was contracted to sample air compressor systems and associated facilities at those locations where PCB containing lubricants may have migrated from air compressors and/or air receivers. Locations likely to be affected by PCB migration included containment areas, earthen impoundments, and areas where PCBs may have migrated to the soil.

On April 18, 1994, ERM and WNG conducted the site characterization of the Former Buffalo Compressor Station located in Harper County, Oklahoma. A site location map is provided as Figure 1 and site photographs are provided as Appendix A. A total of 25 samples was collected from the site and 24 samples were analyzed for PCBs. One soil sample, BUF-012-S6 was broken upon receipt at the laboratory; therefore was not analyzed. Water and oil samples were collected from the flooded basement; a wipe sample was collected from an air receiver header, and soil samples were collected from the former air receiver area, a former service air discharge area, a former prelube air pipe area, a buried impoundment and upgradient and downgradient areas at the site. Sample locations are illustrated on Figure 2. Of the 25 samples collected, four samples were duplicate samples and one sample was an equipment rinse sample. Table 1 provides a list of the duplicate samples and the relative percent difference (RPD) values between the original and the duplicate samples. Solid materials generated during sample collection and liquid waste generated during decontamination of sampling equipment were disposed by incineration at Aptus, Inc. Environmental Services in Coffeyville, Kansas. Waste disposal documents are provided in Appendix B. Analytical results are summarized in Table 2; laboratory data sheets, which include laboratory detection levels, are provided in Appendix C, and chain of custody forms are provided in Appendix D.

Analytical results indicated that one on-site soil sample, BUF-005-S0, contained PCBs at a concentration that exceeded of 25 mg/kg. BUF-005-SO, which was collected in the

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former air receiver area, contained 38 mg/kg PCB-1254. The water, oil and wipe samples, including the equipment rinse sample, contained no PCBs above laboratory detection limits, and the remaining soil samples collected from on-site either contained no PCBs detected above laboratory quantitation limits or contained < 25 mg/kg PCB-1254. RPD values for duplicate samples are considered to be within the acceptable range. No off-site soil samples were collected.

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1.0 *INTRODUCTION*

In the mid-1960's Williams Natural Gas Company (WNG) began using a commercially available flame-retardant lubricant trade-named Pydraul AC. The lubricant was used for air compressor systems at some of its compressor stations in Oklahoma and Texas, (EPA Region VI). Pydraul AC was manufactured by Monsanto Company of St Louis, Missouri. According to 1994 statements of Mr. Gary Mappes, Manager of Product and Environmental Safety at Monsanto Company, Pydraul AC contained 57 percent Arochlor-1254 (which contained polychlorinated biphenyls (PCBs)). WNG discontinued the purchase of Pydraul AC in 1972.

In April, 1994 ERM-Rocky Mountain, Inc. (ERM) was contracted by WNG to perform PCB General Site Characterizations at eighteen compressor station locations in Oklahoma and Texas. These stations were either suspected of having previously used Pydraul AC or were non-operational sites where this information was inadequate or not readily available. The purpose of the site characterizations was to determine if PCBs were present at the sites by collecting samples of various media including soil, sediment, oil, water, and sludge in locations where PCBs were most likely to be present. Sample locations included air compressors, earthen impoundments, surface run-off drainage pathways, areas below air receiver discharge vents, and tanks containing waste oil, engine oil, and condensate. Samples were also collected upgradient of the site to determine background levels and downgradient of the site to determine possible PCB migration. An environmental scientist and an environmental specialist with ERM collected the samples. Mr. Douglas Birkbeck, Environmental Engineer with WNG oversaw site activities and selection of all sampling locations which were performed in accordance with the General Site Screening Plan submitted to and approved by EPA Region VI. Sample locations are illustrated on Figure 2 and described on chain of custody forms provided in Appendix D.

This document is WNG's and ERM's Site Characterization Report for the Former Buffalo Compressor Station location conducted on April 18, 1994. Mr. Walt Ingraham,

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a retired WNG employee, was present during the site investigation and provided appropriate background information.

2.0 *SITE DESCRIPTION*

The Former Buffalo Station is located one-quarter mile north of the intersection of Oklahoma Highways 64 & 183, northeast of the city of Buffalo in Harper County, Oklahoma. A site location map is provided and attached as Figure 1. Properties in the vicinity of the site are generally rural and agricultural in nature. The nearest surface water to the site is an intermittent stream located one-eighth mile east of the site, and a tributary to Buffalo Creek located approximately one-quarter mile west of the site. Based on surface topography, ground water flow appears to be generally to the southeast. However, ground water flow direction can be influenced locally and regionally by subsurface topography; recharge and discharge areas; horizontal/vertical inconsistencies in the types and location of subsurface soil and bedrock; and proximity to water pumping wells. Confirmation of specific geologic and hydrogeologic factors affecting ground water flow beneath the property is beyond the scope of this site characterization.

The Former Buffalo Station is currently not in operation, and according to Mr. Ingraham, the site has been abandoned since the early 1970's. The site consists of building foundations and concrete pads from the former engine room and auxiliary building, the engine room basement, piping in the former air receiver area and fin fan area, a condensate tank, and two above-ground tanks formerly a "pig launcher" and a "pig receiver". A site diagram is provided as Figure 2 and site photographs are provided as Appendix A.

3.0 *HEALTH AND SAFETY PROCEDURES*

Field team personnel were provided with a copy of ERM's Site Specific Health and Safety Plan (HSP) and briefed by ERM's Site-Specific Health and Safety Officer (HSO), on the health and safety issues associated with this site prior to the mobilization phase

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of this project. Field team members were provided a copy of the HSP for their use at all times. Additionally, a copy of the HSP was stored in a pre-designated area of the field vehicle and was present on-site at all times during the project.

Level D personal protective clothing was required during sample collection. Level D personal protective gear consisted of work shirt, work pants, work boots, inner and outer nitrile gloves. Additionally, hard hat, ear protection, and eye protection were worn as required by WNG or as conditions dictated. Personal protective gear was to be upgraded at the discretion of the HSO to include air-purifying respirators, chemical resistant coveralls, and/or disposable boot covers if sample activities, site or environmental conditions warranted such an action. No such action was warranted at this site.

4.0 SAMPLE COLLECTION METHODOLOGY - OVERVIEW

A total of 25 samples were collected at the site. Due to breakage during shipping of soil sample BUF-012-S6, 24 samples were analyzed. Sample locations are included in a site diagram provided as Figure 2. The general locations and types of samples are as follows:

Location	Samples
upgradient and downgradient of site	2 soil
flooded basement	2 water, 2 oil
former air receiver area	2 soil
service air discharge area	2 soil
prelube air pipe area	2 soil
former air receiver header	2 wipe
buried impoundment	10 soil
equipment rinse	1 water
Total	25 samples

Samples were collected directly into sample containers using the sample container itself, dedicated equipment, or decontaminated equipment. Using the sample container to collect the sample reduced the risk of cross-contamination between samples and

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minimized the waste generated during sampling. Decontamination procedures for non-dedicated equipment are provided in Section 6.0.

Samples were collected into pre-cleaned laboratory-provided glass sample jars containing no preservative. Sample containers were labeled in the field, packed to prevent breakage and stored in iced coolers containing absorbent material. Sample labels included sampling date, sampling time, and sample identification number. Sample identification numbers contained a three letter site designation (BUF for Buffalo), a three digit sequence number, and an alpha code to designate the sample media. Depth (in feet) of soil samples were indicated by the number following the alpha code; for example, BUF-001-S0 (surface soil). Alpha codes were as follows:

S - soil
SD - sediment
SL - sludge
W - wipe
WA - water
O - oil
L - liquid

Strict sample custody protocols were followed. Chain of custody forms were completed in the field or within twelve hours of sample collection and placed with the samples in custody-sealed coolers. Coolers were stored in secured locations and shipped within twenty-four hours to Ross Analytical Laboratory in Strongsville, Ohio via Federal Express overnight service.

4.1 SOIL SAMPLE METHODOLOGY

Soil samples were collected in accordance with ERM Standard Operating Procedure for the collection of Environmental Samples (1991), and EPA Field Guide for Sampling of Contaminated Soils (EPA/625/12-91/002). Samples were collected by one ERM field team to ensure uniformity and consistency. A total of 18 surface and subsurface soil

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samples were collected from the site. As mentioned, BUF-012-S6, was broken upon arrival at the laboratory; therefore, was not analyzed.

Prior to sample collection, the ground surface was cleared of any litter, vegetation, or rock cover. Surface soil samples were collected directly into sample jars using either the lid of the sample container or a pre-cleaned stainless steel trowel. Subsurface soils in the area of the buried impoundment were collected by using a backhoe. Prior to the collection of the soil sample, the sample area was scraped using a pre-cleaned stainless steel trowel or shovel so that the sample media was never in contact with the backhoe bucket. The soil samples were then collected directly into the sample container using either the lid of the sample jar, or a pre-cleaned stainless steel trowel. Depths were verified with a carpenters rule. Composite soil samples were thoroughly mixed in a stainless steel bowl prior to placement into sample containers.

4.2 *WIPE SAMPLES METHODOLOGY*

Two wipe samples were collected from the former air receiver piping. The wipe samples were collected using a laboratory-provided filter paper saturated with reagent-grade hexane. Due to limited access, the area sampled was $< 100\ cm^2$, and both samples were collected from the same location. Based on the limited area sampled, the analytical results should be interpreted as estimates of PCB-content. Since both samples were collected from the same area, the two samples are not considered to be duplicate samples.

4.3 *OIL SAMPLES METHODOLOGY*

Two oil samples were collected from the former engine room basement. The samples were collected by submerging the sample containers in the flooded basement, and capturing the liquid directly into the sample container.

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4.4 *WATER SAMPLES METHODOLOGY*

Two water samples were collected from the former engine room basement by submerging the containers in the liquid. Water was collected directly into the sample containers. One equipment rinse sample was collected at the site. Sample methodology for the collection of the equipment rinse sample is discussed in Section 5.0.

5.0 *QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)*

The purpose of Quality Assurance is to ensure that data produced during the project is accurate, statistically valid and properly documented; and that decisions based on these data are technically sound. Quality control refers to the procedures implemented to measure the degree to which quality assurance objectives are met.

To ensure uniformity with respect to sample collection, all samples were collected by one ERM field team using consistent standard operation procedures. Likewise, to ensure data comparability, all analyses were performed by one laboratory: Ross Analytical of Strongsville, Ohio.

The Quality Control samples collected in the field included four duplicate samples, and one equipment rinse sample. Field duplicates are analyzed to assess the precision of the analytical results. Precision is a function of variances in media composition, sampling technique, and analytical technique. Precision is evaluated by calculating the relative percent differences (RPD) between the primary and duplicate sample results according to the following equation:

$$RPD = \frac{\text{(Primary Result - Duplicate Result) x 100}}{\text{Average of Primary and Duplicate Result}}$$

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Acceptable RPD values for laboratory control samples and matrix spikes range from 15% to 20%. RPDs for field duplicate samples are expected to be higher than for laboratory control samples based on natural variance of the media, sampling technique and

analytical technique. RPD values for the duplicate samples collected are provided in Table 1.

One equipment rinse sample was collected from the site. Analysis of rinse samples is performed to detect any cross-contamination that may have resulted from inadequate decontamination procedures. The equipment rinse sample, BUF-010-WA, was obtained by pouring distilled water onto decontaminated equipment, and collecting the distilled water into a sample container.

Sample custody protocols were strictly maintained from the time of sample collection through sample analyses. Sample coolers were tracked daily from the pick-up location to the destination at the laboratory to ensure that samples had arrived according to schedule. Upon arrival at the laboratory, chain of custody forms were reviewed for accuracy and completeness. ERM maintained daily contact with Ross Analytical for proper and prompt identification and correction of any discrepancies associated with sample arrival.

6.0 DECONTAMINATION PROCEDURES

Decontamination procedures were designed to reduce the risk of cross-contamination and to minimize the volume of waste generated. All non-dedicated sampling equipment were decontaminated in a portable decontamination station. The decontamination station consisted of air pressurized sprayers containing non-phosphate detergent, PCB-scavenging detergent, distilled water, and hexane; two five-gallon buckets to contain the runoff wash and rinse water; and a large rectangular tub to provide secondary containment for spills/splashes. The decontamination procedures were as follows:

- Excess soil was thoroughly scraped from sample equipment at the sample location and returned to the borehole prior to equipment decontamination.
- Sample equipment was sprayed with non-phosphate and PCB-scavenging detergent and scrubbed with brushes until no soil was visibly present.

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- Sample equipment was then thoroughly rinsed with distilled water followed by a technical-grade hexane rinse and a final distilled water rinse.

- Decontaminated equipment was then stored in clean plastic bags until next usage.

7.0 *WASTE MANAGEMENT*

Approximately 5-10 pounds of solid waste and 1-2 gallons of liquid waste were generated during this site characterization. Solid waste consisted primarily of used bailers, used gloves, used paper towels, used brushes, packaging materials such as plastic wrappers and cardboard boxes, and other domestic trash. Solid waste which was not in contact with sample media was disposed of in domestic trash dumpsters located at the site. Solid waste generated during sample collection was collected in a black plastic trash bag, which was labeled "Buffalo Station," and stored in a Department of Transportation (DOT)-approved 55-gallon steel drum. Liquid waste consisted of cleaning solutions and rinse water generated during decontamination of sampling equipment. Rinse water was contained in a separate DOT-approved 55-gallon metal drum.

After the site characterizations of all eighteen sites were completed, the drums were stored at the Cotton Valley Compressor Station in a secured shed on a plastic-lined, bermed secondary containment pad pending disposal. The contents of the drums were incinerated at Aptus in Coffeyville, Kansas in July of 1994. Copies of the Aptus approval letters, waste profiles, and waste manifest are included in Appendix B.

8.0 *ANALYTICAL RESULTS*

Samples were analyzed by Ross Analytical Services, Inc. of Strongsville, Ohio for PCBs by EPA Method SW-846 8080. Analytical results are provided in Table 2. Laboratory data sheets, which include detection limits, are provided in Appendix C and chain of custody forms are provided in Appendix D.

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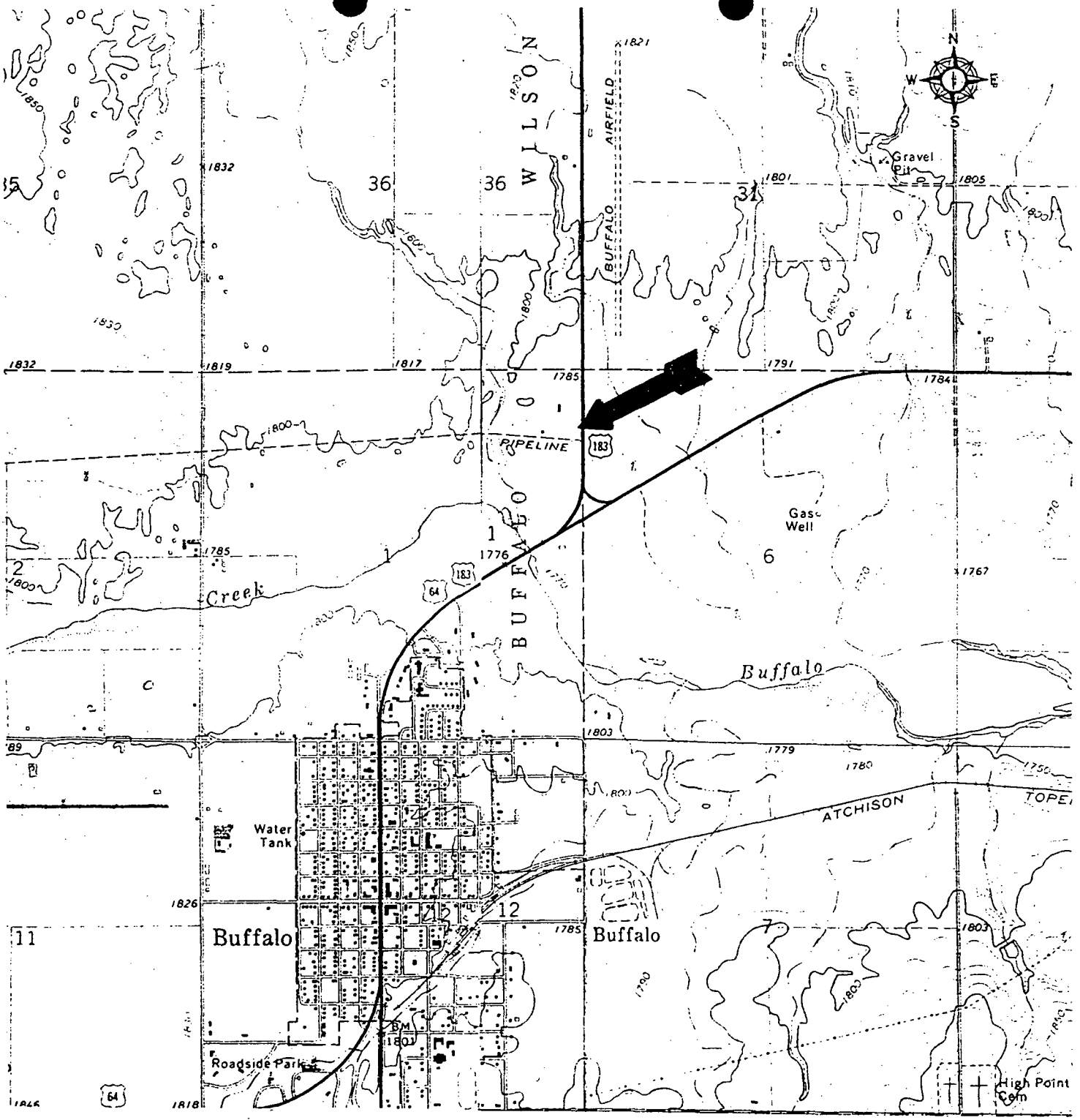
9.0 *FINDINGS/CONCLUSIONS*

WNG and ERM performed a site characterization of the Buffalo Former Compressor Station on April 18, 1994. A total of 24 samples of soil, oil, water, and wipe samples were analyzed for PCBs by EPA Method SW-846 8080. Sample locations were chosen by WNG based on the General Site Screening Plan submitted to and approved by EPA Region VI; and, samples were collected from areas most likely to be in contact with Pydraul AC. Analytical results indicated PCBs were detected in one on-site soil sample in excess of 25 mg/kg. Soil sample BUF-005-SO, collected at the former air receiver area contained PCB-1254 at a concentration of 38 mg/kg. Analytical results from the oil, water and wipe samples indicated no PCBs detected above laboratory detection limits. The remaining soil samples contained either no PCBs detected above laboratory quantitation limits, or < 25 mg/kg PCB-1254. No off-site soil samples were collected. Analytical results for the equipment rinse sample, BUF-010-WA, indicated that PCBs were not detected above the laboratory quantitation limits (see Appendix C for specific quantitation limits). RPD values for duplicate samples are considered to be within the acceptable range.

000013

FIGURE 1

SITE LOCATION MAP



SITE LOCATION MAP **BUFFALO COMPRESSOR STATION** T27N, R23W, Sec. 1 Harper County, Oklahoma	**ERM-ROCKY MOUNTAIN, INC.** Environmental Resources Management 5950 S. Willow Drive, Suite 200 Englewood, CO 80111 (303) 741-5050
Source: Buffalo SE & Buffalo, Oklahoma USGS 7.5' series	Drawn By: P.R. Checked By: DM Date: 5-18-94
	Scale: 1:24,000
	Job No. 941008.0 Figure: 1

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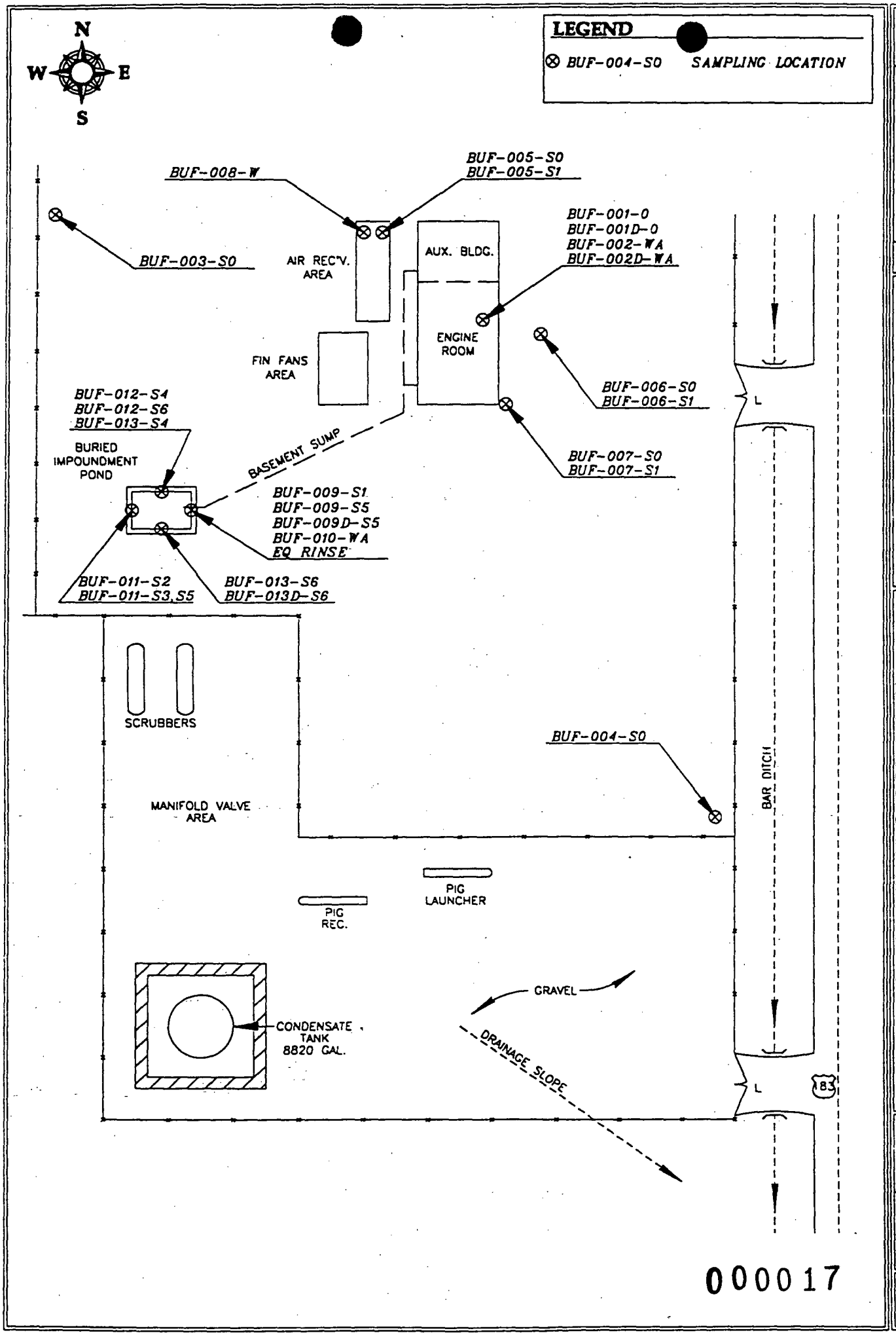
FIGURE 2

SITE DIAGRAM



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REV	REVISION DESCRIPTION	DATE

ERM-Rocky Mountain, Inc.
8980 South Willow Drive
Suite 200
Greenwood Village, Colorado 80111-5144
(303) 741-8000
ERM

WILLIAMS NATURAL GAS COMPANY
ONE OF THE WILLIAMS COMPANIES
ENGINEERING DIVISION
TULSA, OKLAHOMA

SITE LOCATION
BUFFALO COMPRESSOR STATION SEC. 1, T27N, R23W
HARPER COUNTY, OKLAHOMA

DESIGNED	PCR
DRAWN	JIG
CHECKED	
DATE	03/13/95
JOB NO.	941044.0
FILENAME	BUFFALO1

FIGURE 2

TABLE 1

RELATIVE PERCENT DIFFERENCE VALUES

TABLE 1

RPD VALUES

SAMPLE #'s	RPD (%)	COMMENTS
OIL		
BUF-001(D)-0	0.0	Analytical results of both samples <EQL.
WATER		
BUF-002(D)-WA	0.0	Analytical results of both samples <EQL.
SOIL		
BUF-009(D)-S5	32.1	Within acceptable range.
BUF-013(D)-S6	0.0	Analytical results of both samples <EQL.

* EQL - Estimated Quantitation Limit

TABLE 2

ANALYTICAL RESULTS

Williams Natural Gas

Client Sample ID	RASI Work Order	Matrix	Date Extracted	Date Analyzed	Dil. Factor	Reporting Units	Action Limit	PCB-1016	EQL	PCB-1221	EQL	PCB-1232	EQL	PCB-1242	EQL	PCB-1248	EQL	PCB-1254	EQL	PCB-1260	EQL	Surrogate TCMX	Surrogate DCBP
BUF-001-O	94-04-307-01	Oil	04/26/94	05/02/94	21	mg/Kg	10	<EQL	21	<EQL	42	<EQL	21	<EQL	21	<EQL	21	<EQL	21	<EQL	21	89 %	121 %
BUF-001D-O	94-04-307-02	Oil	04/26/94	05/02/94	21	mg/Kg	10	<EQL	21	<EQL	42	<EQL	21	<EQL	21	<EQL	21	<EQL	21	<EQL	21	0	132 %
BUF-002-WA	94-04-307-03	Water	04/26/94	05/03/94	100	mg/L	10	<EQL	0.050	<EQL	0.10	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050		
BUF-002D-WA	94-04-307-04	Water	04/26/94	05/03/94	100	mg/L	10	<EQL	0.050	<EQL	0.10	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050		
BUF-003-SO	94-04-307-05	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-004-SO	94-04-307-06	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-005-S1	94-04-307-08	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	11 *	0.87	<EQL	0.87		
BUF-005-SO	94-04-307-07	Soil	04/27/94	04/28/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	38 *	0.87	<EQL	0.87		
BUF-006-S1	94-04-307-10	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-006-SO	94-04-307-09	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-007-S1	94-04-307-12	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-007-SO	94-04-307-11	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-008-W	94-04-307-13	Wipe	04/27/94	04/28/94	1	Total ug	10	<EQL	1.0	<EQL	2.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	103 %	124 %
BUF-008D-W	94-04-307-14	Wipe	04/27/94	04/28/94	1	Total ug	10	<EQL	1.0	<EQL	2.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	69 %	108 %
BUF-009-S1	94-04-307-15	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
[illegible]-009-S5	94-04-307-16	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	17	<EQL	34	<EQL	17	<EQL	17	<EQL	17	9.4	0.87	<EQL	0.87		
[illegible]-009D-S5	94-04-307-25	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	13 *	0.87	<EQL	0.87		
BUF-010-WA	94-04-307-17	Water	04/26/94	05/02/94	1	mg/L	10	<EQL	0.001	<EQL	0.002	<EQL	0.001	<EQL	0.001	<EQL	0.001	<EQL	0.001	<EQL	0.001		50 %
BUF-011-S2	94-04-307-18	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-011-S3.5	94-04-307-19	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	21 *	0.87	<EQL	0.87		
BUF-012-S4	94-04-307-20	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-013-S4	94-04-307-22	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-013-S6	94-04-307-23	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-013D-S6	94-04-307-24	Soil	05/02/94	05/04/94	51	mg/Kg	10	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		

* Denotes Value Exceeding Action Limit

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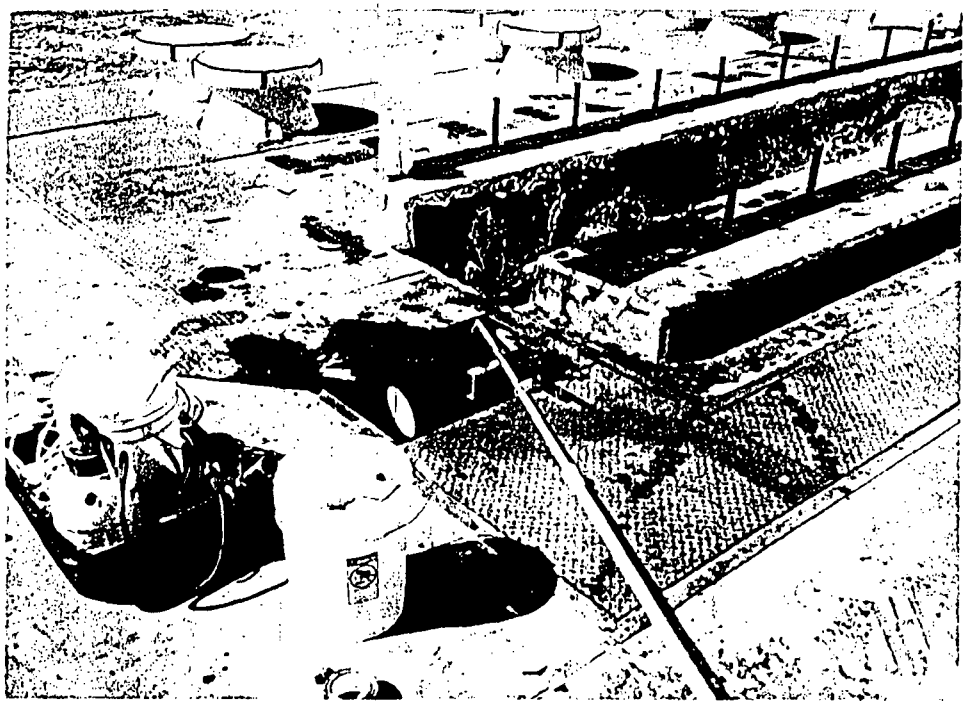
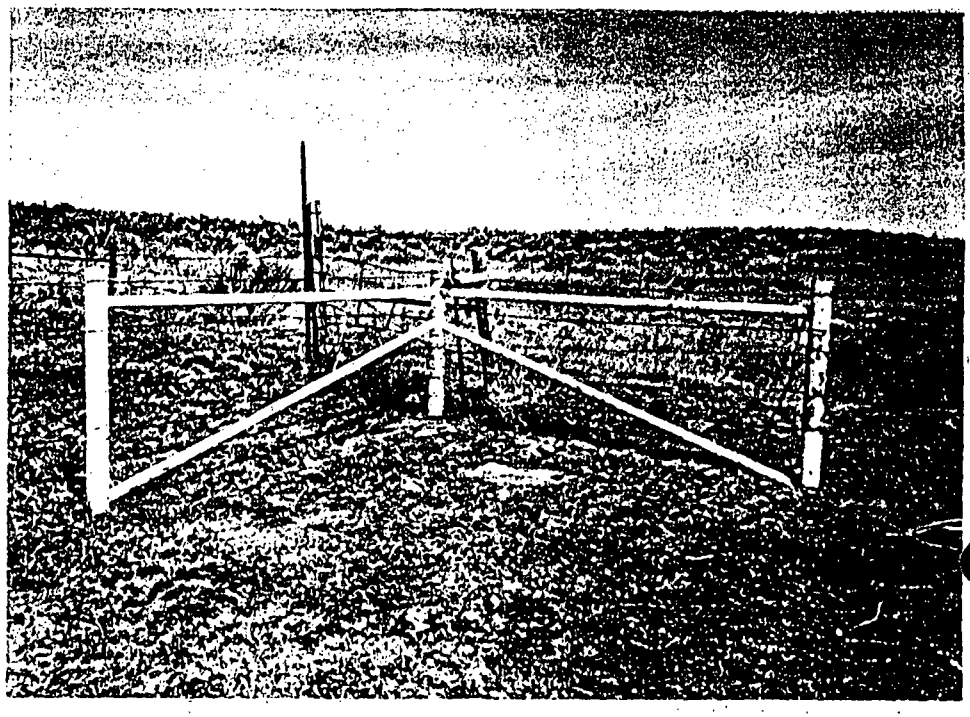
APPENDIX A

SITE PHOTOS

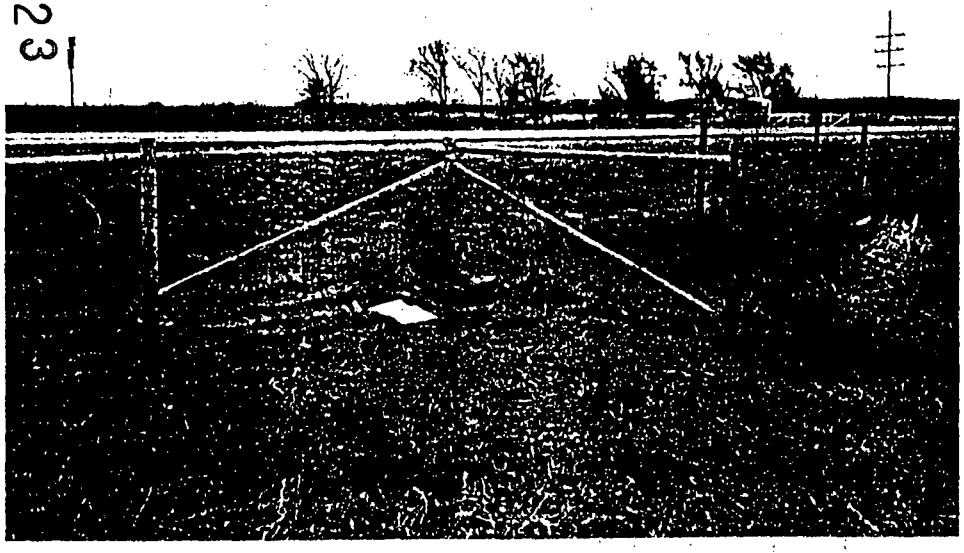


Basement (BUF-001(D)-0) (BUF-002(D)-WA).

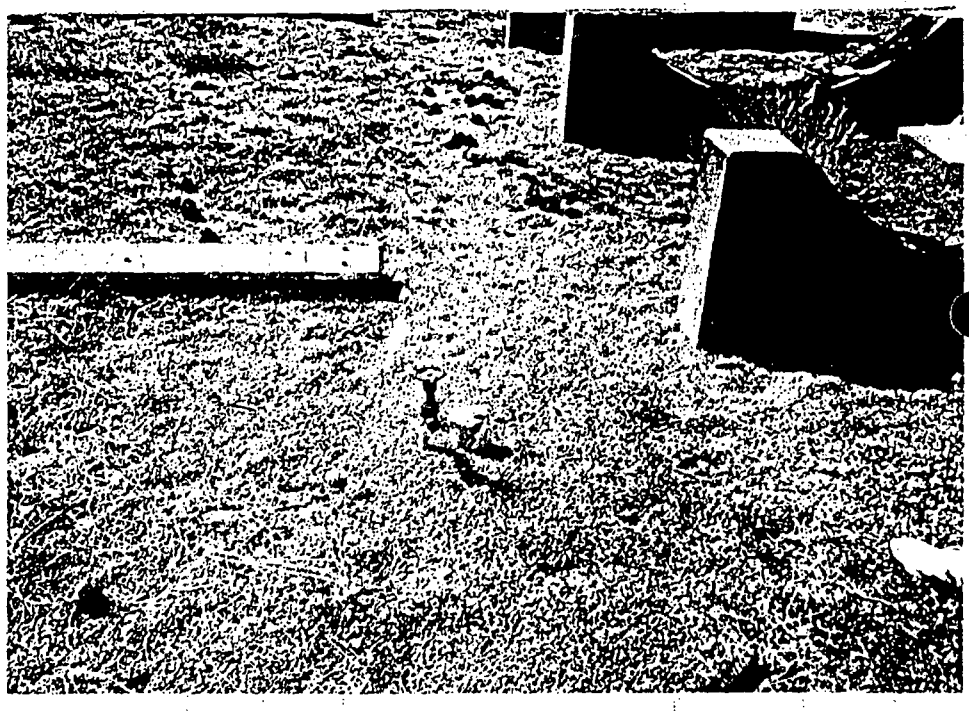


Upgradient of Site (BUF-003-S0).

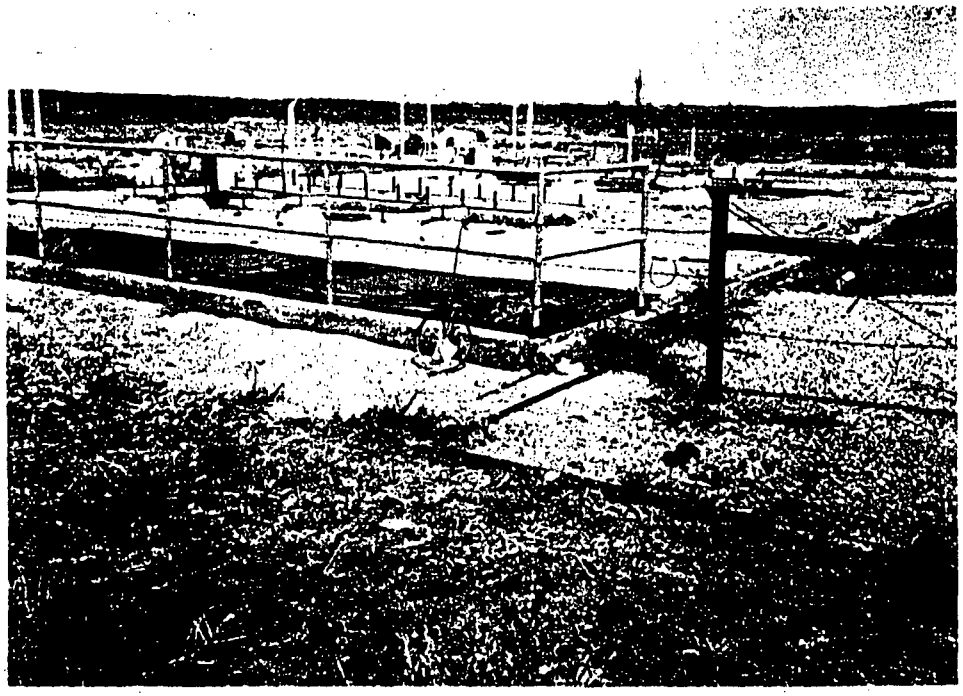
000023



Downgradient of Site (BUF-004-S0).



Former Air Receiver (BUF-005-S0 & S1).



Prelube Air Pipe (BUF-007-S0 & S1).

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APPENDIX B

WASTE DISPOSAL DOCUMENTS

APPENDIX C

ANALYTICAL REPORTS

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-3[illegible]737

CERTIFICATE OF ANALYSIS

Client:

Williams Natural Gas
1 Williams Center, MD 31-3
Tulsa, OK 74172

Attn: Doug Birckbeck

Work Order #: 94-04-307
Client Code: WILLIAMS_GAS
Report Date: 05/06/94
Work ID: Samples for PCB's
Date Received: 04/22/94

Purchase Order: Buffalo Station

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Oil BUF-001-O	02	Oil BUF-001D-O
03	Water BUF-002-WA	04	Water BUF-002D-WA
05	Soil BUF-003-SO	06	Soil BUF-004-SO
07	Soil BUF-005-SO	08	Soil BUF-005-S1
09	Soil BUF-006-SO	10	Soil BUF-006-S1
11	Soil BUF-007-SO	12	Soil BUF-007-S1
13	Wipe BUF-008-W	14	Wipe BUF-008D-W
15	Soil BUF-009-S1	16	Soil BUF-009-S5
17	Water BUF-010-WA	18	Soil BUF-011-S2
19	Soil BUF-011-S3.5	20	Soil BUF-012-S4
21	Soil BUF-012-S6	22	Soil BUF-013-S4
23	Soil BUF-013-S6	24	Soil BUF-013D-S6
25	Soil BUF-009D-S5		

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Sample BUF-12-S6 (Lab No. 21) was voided at your request and so has no results to report.

Craig H Caldwell

Certificate approved by
Craig H. Caldwell

REPORT COMMENTS

The surrogate recoveries from the soils which were analyzed at 1:51 dilutions could not be calculated because of the dilutions.

The EQL's of most of the PCB's in sample BUF-009-S5 (Lab No. 16) were raised because of matrix interferences.

The recovery of the surrogate tetrachloro-m-xylene from sample BUF-010-WA (Lab No. 17) could not be calculated because of matrix interferences.

TEST METHODOLOGIES

PCB's were determined using gas chromatography with electron capture detection as in EPA Method 8080.

Aqueous samples and leachates were extracted for organochlorine pesticides and PCB's in a continuous extractor using methylene chloride as in EPA Method 3520.

Organic liquid and semi-solid wastes were diluted with hexane for organochlorine pesticide and PCB analysis as in EPA Method 3580.

Solid and semisolid samples extracted for organochlorine pesticides and PCB's in an ultrasonic extractor using methylene chloride and acetone as in EPA Method 3550.

Sample Description Oil BUF-001-0 Lab No. 01
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/02/94 DILUTION FACTOR 21 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	21
11104-28-2	PCB-1221	<EQL	42
11141-16-5	PCB-1232	<EQL	21
53469-21-9	PCB-1242	<EQL	21
12672-29-6	PCB-1248	<EQL	21
11097-69-1	PCB-1254	<EQL	21
11096-82-5	PCB-1260	<EQL	21

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	89	24 - 130
Decachlorobiphenyl	121	38 - 162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Oil BUF-001D-0 Lab No. 02
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/02/94 DILUTION FACTOR 21 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	21
11104-28-2	PCB-1221	<EQL	42
11141-16-5	PCB-1232	<EQL	21
53469-21-9	PCB-1242	<EQL	21
12672-29-6	PCB-1248	<EQL	21
11097-69-1	PCB-1254	<EQL	21
11096-82-5	PCB-1260	<EQL	21

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0 Q	24 - 130
Decachlorobiphenyl	132	38 - 162

Work Order # 94-04-307 Ross Analy[illegible] Services, Inc Reported: 05/06/[illegible]

Sample Description Water BUF-002-WA Lab No. 03
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/03/94 DILUTION FACTOR 100 UNITS mg/L

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.050
11104-28-2	PCB-1221	<EQL	0.10
11141-16-5	PCB-1232	<EQL	0.050
53469-21-9	PCB-1242	<EQL	0.050
12672-29-6	PCB-1248	<EQL	0.050
11097-69-1	PCB-1254	<EQL	0.050
11096-82-5	PCB-1260	<EQL	0.050

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	31 - 127
Decachlorobiphenyl	Q	10 - 130

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/

Sample Description Water BUF-002D-WA Lab No. 04
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/03/94 DILUTION FACTOR 100 UNITS mg/L

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.050
11104-28-2	PCB-1221	<EQL	0.10
11141-16-5	PCB-1232	<EQL	0.050
53469-21-9	PCB-1242	<EQL	0.050
12672-29-6	PCB-1248	<EQL	0.050
11097-69-1	PCB-1254	<EQL	0.050
11096-82-5	PCB-1260	<EQL	0.050

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	31 - 127
Decachlorobiphenyl	Q	10 - 130

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-003-SO Lab No. 05
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-004-SO Lab No. 06
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-005-SO Lab No. 07
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/27/94 DATE RUN 04/28/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	38	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-005-S1 Lab No. 08
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	11	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	Q	14 -	135
Decachlorobiphenyl	Q	38 -	139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-006-SO Lab No. 09
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	0	14 -	135
Decachlorobiphenyl	0	38 -	139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-006-S1 Lab No. 10
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-007-SO Lab No. 11
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	0	14 -	135
Decachlorobiphenyl	0	38 -	139

Work Order # 94-04-307 Ross Analytic[illegible]ervices, Inc Reported: 05/06/94

Sample Description Soil BUF-007-S1 Lab No. 12
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Wipe BUF-008-W Lab No. 13
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/27/94 DATE RUN 04/28/94 DILUTION FACTOR 1 UNITS Total ug

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	1.0
11104-28-2	PCB-1221	<EQL	2.0
11141-16-5	PCB-1232	<EQL	1.0
53469-21-9	PCB-1242	<EQL	1.0
12672-29-6	PCB-1248	<EQL	1.0
11097-69-1	PCB-1254	<EQL	1.0
11096-82-5	PCB-1260	<EQL	1.0

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	103	24 - 130
Decachlorobiphenyl	124	38 - 162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Wipe BUF-008D-W Lab No. 14
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/27/94 DATE RUN 04/28/94 DILUTION FACTOR 1 UNITS Total ug

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	1.0
11104-28-2	PCB-1221	<EQL	2.0
11141-16-5	PCB-1232	<EQL	1.0
53469-21-9	PCB-1242	<EQL	1.0
12672-29-6	PCB-1248	<EQL	1.0
11097-69-1	PCB-1254	<EQL	1.0
11096-82-5	PCB-1260	<EQL	1.0

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	69	24 - 130
Decachlorobiphenyl	108	38 - 162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-009-S1 Lab No. 15
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-009-S5 Lab No. 16
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	17
11104-28-2	PCB-1221	<EQL	34
11141-16-5	PCB-1232	<EQL	17
53469-21-9	PCB-1242	<EQL	17
12672-29-6	PCB-1248	<EQL	17
11097-69-1	PCB-1254	9.4	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/

Sample Description Water BUF-010-WA Lab No. 17
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/02/94 DILUTION FACTOR 1 UNITS mg/L

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.001
11104-28-2	PCB-1221	<EQL	0.002
11141-16-5	PCB-1232	<EQL	0.001
53469-21-9	PCB-1242	<EQL	0.001
12672-29-6	PCB-1248	<EQL	0.001
11097-69-1	PCB-1254	<EQL	0.001
11096-82-5	PCB-1260	<EQL	0.001

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	31 - 127
Decachlorobiphenyl	50	10 - 130

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-011-S2 Lab No. 18
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	q	14 - 135
Decachlorobiphenyl	q	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-011-S3.5 Lab No. 19
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	21	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/

Sample Description Soil BUF-012-S4 Lab No. 20
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-013-S6 Lab No. 23
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-013D-S6 Lab No. 24
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

ork Order # 94-04-307 Roes Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-0090-S5 Lab No. 25
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	13	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

ROSS® Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Report to: PAM REITAN
ERM-RM
5950 S Willow Dr Suite 200
Englewood, CO 80111
Telephone: (303) 741-5050
FAX (303) 773-2624

Lab Contact: Ann M.
Purchase Order No.:
Project Reference:

Bill to: Williams Natural GAS

ONE CONTAINER PER LINE

Sample Number	Sample Type/Description	Date Collected	Container Type	Pre-servative	Required Tests	Condition on Receipt (Lab)
BUF-001-O	oil basement	4-18-94	4oz	none	PCBs	
BUF-001D-O	oil basement		4oz			
BUF-002-WA	water basement		2L			
BUF-002D-WA	water basement		2L			
BUF-003-SO	upgradient soil		4oz			
BUF-004-SO	downgradient soil		4oz			
BUF-005-SO	ART west NW corner of building		4oz			
BUF-005-S1	"		4oz			
BUF-006-SO	instrument air below meter		4oz			
BUF-006-S1	"		4oz			

Possible Hazard Identification: Non-hazard / Flammable / Skin Irritant / Other

Sample Disposal: Return to Client / Disposal by Lab / Archive (mos)

Turnaround Time Required: Normal / Rush / Report Required By

QA Requirements:

1. Relinquished by Signature/Affiliation: Pam Reitan — Date: 4-19-94
2. Relinquished by Signature/Affiliation: — Date:

1. Received by Signature/Affiliation: [signature] — Date: 4/21/94 1300
2. Received by Signature/Affiliation: — Date:

Special Instructional Comments:

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ROSS® Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Report to: Pam Reitan
ERM-KM
5950 S. Willow Pk. Suite 100
Greenwood Village, CO 80111
Telephone: (303) 741 5050
(303) 773-2624

Lab Contact: Ann
Purchase Order No.:
Project Reference:

Bill to: Williams Natural Gas

ONE CONTAINER PER LINE

Sample Number	Sample Type/Description	Date Collected	Container Type	Pre-servative	Required Tests	Condition on Receipt (Lab)
BUF-007-S0	below pretube air	4-18-94	4oz	none	PCBs	
BUF-007-S1	"					
BUF-008-W	below ACT heater					
BUF-008-W	"					
BUF-009-S1	E side of lined					
BUF-009-S5	"					
BUF-010-WA	EQ Rinse		2L			
BUF-011-S2	W side of lined		4oz			
BUF-011-S3,5	"					
BUF-012-S4	N side of lined					

Possible Hazard Identification:
Non-hazard Flammable Skin Irritant Other

Sample Disposal:
Return to Client Disposal by Lab Archive (mos)

Turnaround Time Required:
Normal Rush Report Required By

QA Requirements:

1. Relinquished by Signature/Affiliation: Pam Reitan Date: 4-19-94
2. Relinquished by Signature/Affiliation: Date:

1. Received by Signature/Affiliation: Date:
2. Received by Signature/Affiliation: Date:

Special Instructional Comments:

000054

ROSS® Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Report to: Pam Keilan
ERM - Rockville.

Lab Contact: Ann

Purchase Order No.:

Project Reference:

Bill to: WNG

Telephone:

ONE CONTAINER PER LINE

Sample Number	Sample Type/Description	Date Collected	Container Type	Pre-servative	Required Tests	Condition on Receipt (Lab)
BUF-012-S6	N. side Impd	4-18-94	4oz	none	PCBs	
BUF-013-S4	N. Side Impd	↓	↓	↓	↓	
BUF-013-S6	S. Side Impd	↓	↓	↓	↓	
BUF-013D-S6	S. Side Impd	↓	↓	↓	↓	
BUF-009D-S5						

Possible Hazard Identification:
Non-hazard Flammable Skin Irritant Other

Sample Disposal:
Return to Client Disposal by Lab Archive (mos)

Turnaround Time Required:
Normal Rush Report Required By

QA Requirements:

1. Relinquished by Signature/Affiliation: Pam Keilan Date: 4-19-94
2. Relinquished by Signature/Affiliation Date

1. Received by Signature/Affiliation Date
2. Received by Signature/Affiliation Date

Special Instructional Comments:

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PCB Site Characterization
Williams Natural Gas Facility
Buffalo, Oklahoma

April 6, 1995

Prepared for:

Williams Natural Gas
Tulsa, Oklahoma

Project Number 11885

BURLINGTON ENVIRONMENTAL INC.
A Philip Environmental Company
3010 Greens Road
Houston, Texas 77032

Report on
PCB Site Characterization
at
Williams Natural Gas - Buffalo, Oklahoma

SUMMARY

Burlington Environmental Inc. (Burlington) conducted a site characterization at the Williams Natural Gas facility in Buffalo, Oklahoma to evaluate the extent of potential polychlorinated biphenyl (PCB) contamination. Burlington collected wipe samples from the concrete floor in the compressor/auxiliary building, from the walls of the compressor basement, from the pipechase and associated piping, and from the header to the air receivers. A total of 48 samples were submitted to ETS Analytical Services, Inc. (ETS) for PCB analysis.

Analytical results indicated that one sample (BUF-COM-WP22) from the floor of the compressor/auxiliary building had a PCB level of 36 micrograms per 100 square centimeters ($\mu g/100\ cm^2$). All the wipe samples collected from the walls of the compressor basement were below the detection limit of 1 $\mu g/100\ cm^2$. Elevated levels of PCBs were reported for the wipe samples collected from the pipechase and the three-inch header to the air receivers. For the areas sampled, PCB contamination (greater than 10 $\mu g/100\ cm^2$) appears to be limited to the compressor/auxiliary building in the vicinity of wipe sample area BUF-COM-WP22, to the header of the air receivers, and to the pipechase.

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INTRODUCTION

At the request of Williams Natural Gas (WNG), Burlington Environmental Inc. (Burlington) collected wipe samples from the sample areas shown on Figures 1,2 and 3 to characterize the floors, walls, and pipe surfaces for potential polychlorinated biphenyl (PCB) contamination from past operations. Analyses of the samples collected for PCBs were performed by ETS Analytical Services, Inc. (ETS) in Roanoke, Virginia.

Samples submitted to the laboratory were analyzed for total PCBs in accordance with United States Environmental Protection Agency (USEPA) methods. Sampling activities were conducted on August 25, 1994.

BURLINGTON'S PCB SAMPLING METHOD

For characterization of surfaces, wipe samples are taken according to USEPA protocols: A gauze pad is moistened with Hexane and applied to a 100 cm^2 template on the surface. The wipe samples are placed in 4-ounce glass sampling containers, then sealed with Teflon®-lined lids. All samples collected were placed on ice in a cooler to maintain the required 4°C and shipped to the laboratory for analysis. The wipe samples collected were submitted to ETS for chemical analysis.

CONCRETE FLOOR, WALL, AND PIPE SURFACE SAMPLING

Burlington personnel collected wipe samples from the concrete surfaces in the pipechase, walls of the compressor basement, and the compressor/auxiliary building to evaluate if the floors or walls had been impacted by PCBs during past operations. In addition, Burlington collected wipe samples from piping located in the pipechase and at the air receivers. The locations of the wipe samples were determined in accordance with USEPA guidelines for grid sampling. The wipe sample locations are shown on Figures 1 through 3. Burlington submitted 48 wipe samples:

- 30 samples from the concrete floor of the compressor/auxiliary building (Figure 1)
- 6 samples from the walls of the compressor basement (Figure 2)
- 5 samples from the pipechase (Figure 3)
- 2 samples from the piping located in the pipechase (Figure 3)
- 1 sample from the header to the air receivers
- 3 duplicate wipe samples and 1 field blank for Quality Assurance/Quality Control (QA/QC)

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BURLINGTON'S QUALITY ASSURANCE/QUALITY CONTROL

Burlington followed the sampling protocols and procedures as outlined in USEPA Test Methods for Evaluating Solid Waste (SW-846). QA/QC procedures were maintained so that the wipe samples collected for laboratory analyses provide accurate and reliable information. QA/QC procedures for the project include the use of disposable latex gloves when collecting or handling each sample to prevent cross contamination between samples.

Burlington personnel collected duplicate wipe samples and one field blank for QA/QC. In addition, signed chain of custody documentation for all samples submitted to the laboratory for analysis were maintained by Burlington. Sample logs and chain of custody documentation are included in Appendix A.

DISCUSSION OF PCB RESULTS

The analytical results for the surface wipe samples submitted to ETS are summarized in Tables 1 and 2. The wipe samples, with the PCB levels greater than 10 $\mu g/100\ cm^2$, are highlighted in Tables 1 and 2. Analytical results provided by ETS are included in Appendix B.

For the samples collected from the compressor/auxiliary building, the PCB concentrations ranged from below the detection limit to 36 $\mu g/100\ cm^2$. In the compressor/auxiliary building, PCB contamination appears to be limited to an area near sample location BUF-COM-WP22 (See Figure 1).

Elevated levels of PCBs were reported for all the concrete surface wipe samples collected from the pipechase. The concentrations ranged from 73 $\mu g/100\ cm^2$ to 4300 $\mu g/100\ cm^2$. The samples collected from the drip drain (BUF-PC-DRAIN) and the two-inch pipe (BUF-PC-WP4) in the pipechase also had PCB concentrations above 10 $\mu g/100\ cm^2$. All of the concrete wall samples collected from the compressor basement were below the detection limit of 1 $\mu g/100\ cm^2$. The PCB level for the three-inch header of the air receivers (BUF-ARH-WP1) was 21 $\mu g/100\ cm^2$. This header is located in the area designated as abandoned air receiver area C. Based upon the data collected and evaluated, PCB contamination appears to be limited to the pipechase (See Figure 3) and the three-inch header of the air receivers located on the west side of the building.

BURLINGTON'S RECOMMENDATIONS

Based upon the detection of PCBs in an area of the compressor/auxiliary building, in the pipechase, and on the surface of the three-inch header to the air receivers, Burlington recommends that the areas be cleaned using an USEPA accepted process. Using an USEPA accepted process for cleaning surfaces would allow for deregulation of the area and continued

use. If the area is not cleaned, the potential exists for continued contamination of other media (soil or groundwater) and other surface areas.

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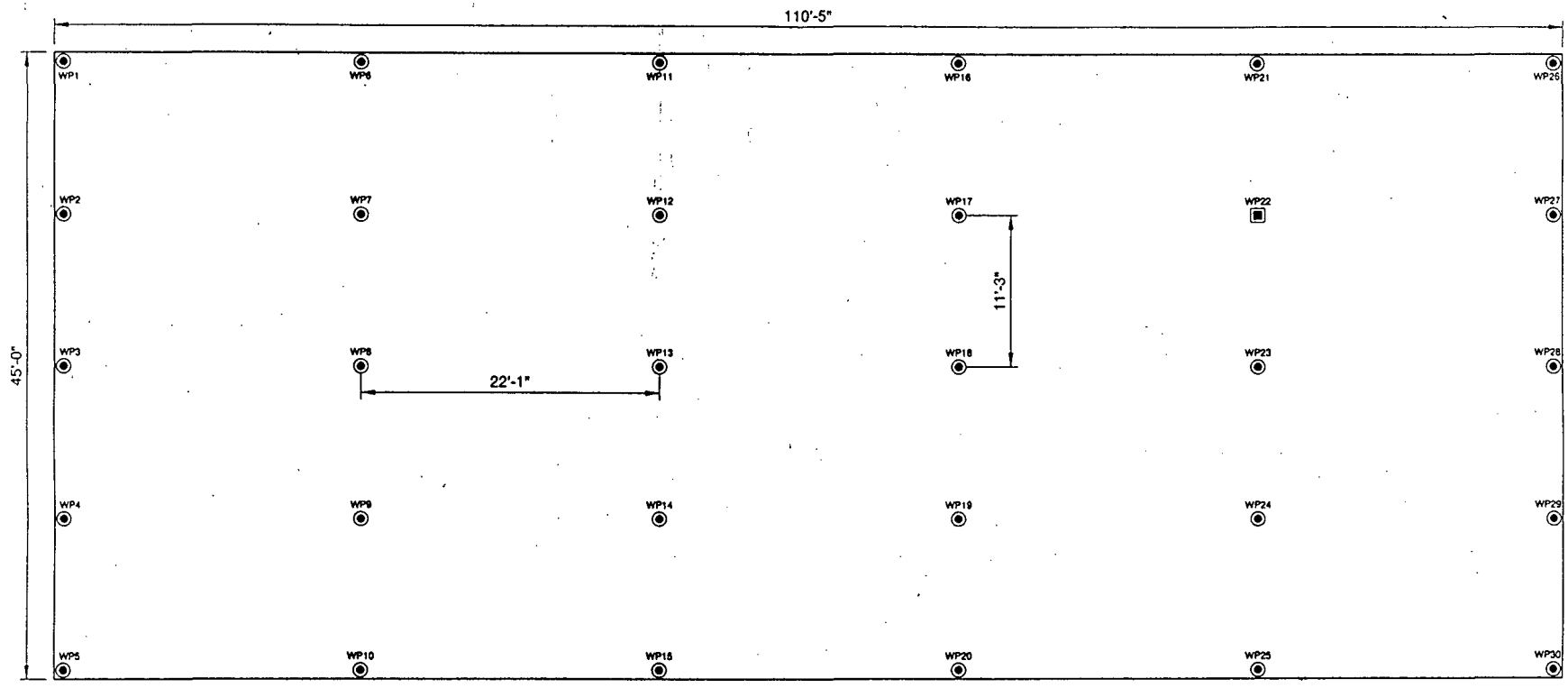
FIGURES



LEGEND
BUF-COM-WP1-WPW30
◉ SAMPLE POINT
▣ ≥ 10 ug

N

NOT TO SCALE

Burlington Environmental Inc.	
COMPRESSOR/AUXILIARY BUILDING	
Williams Natural Gas Buffalo, OK. 11885	FIGURE 1

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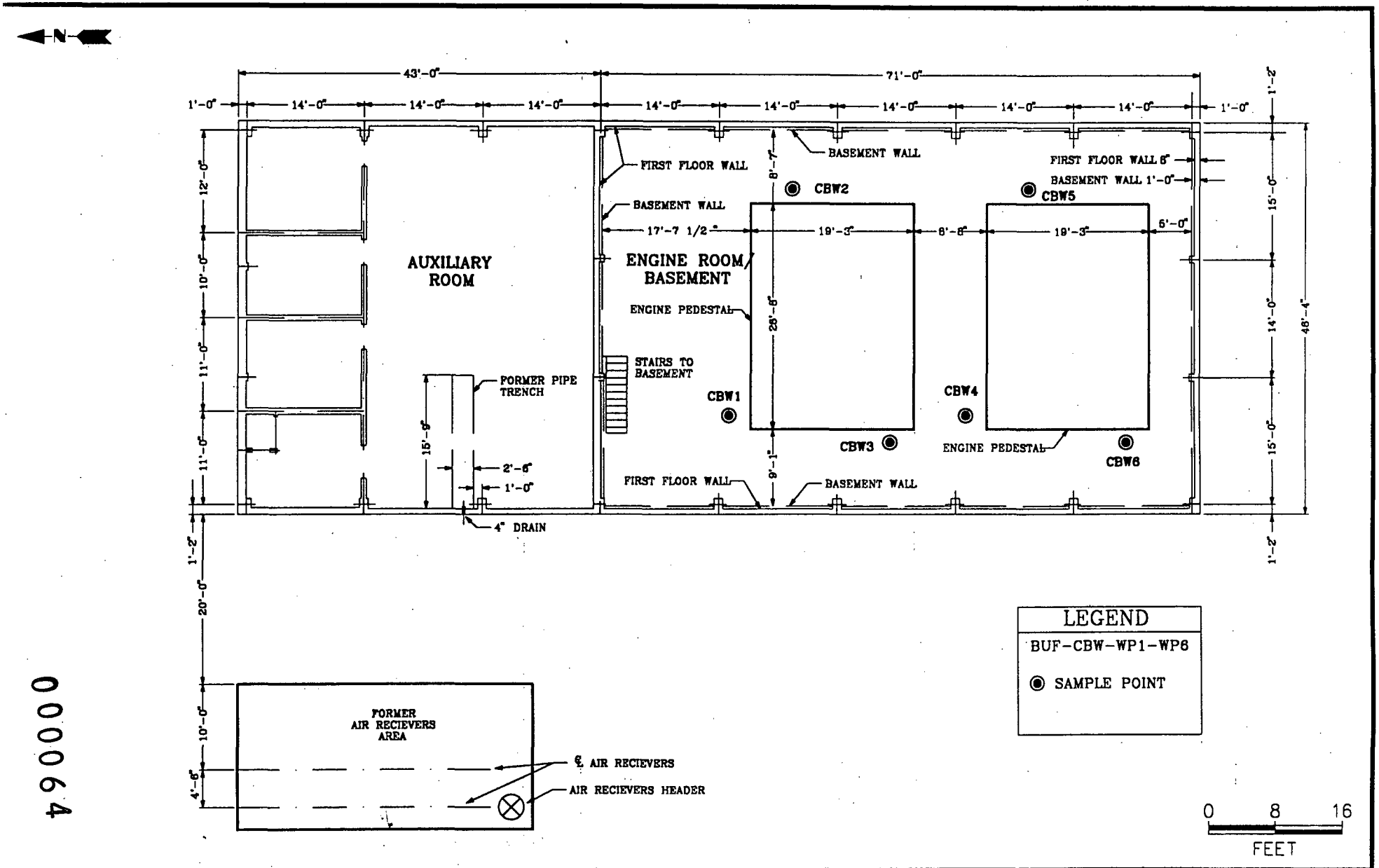

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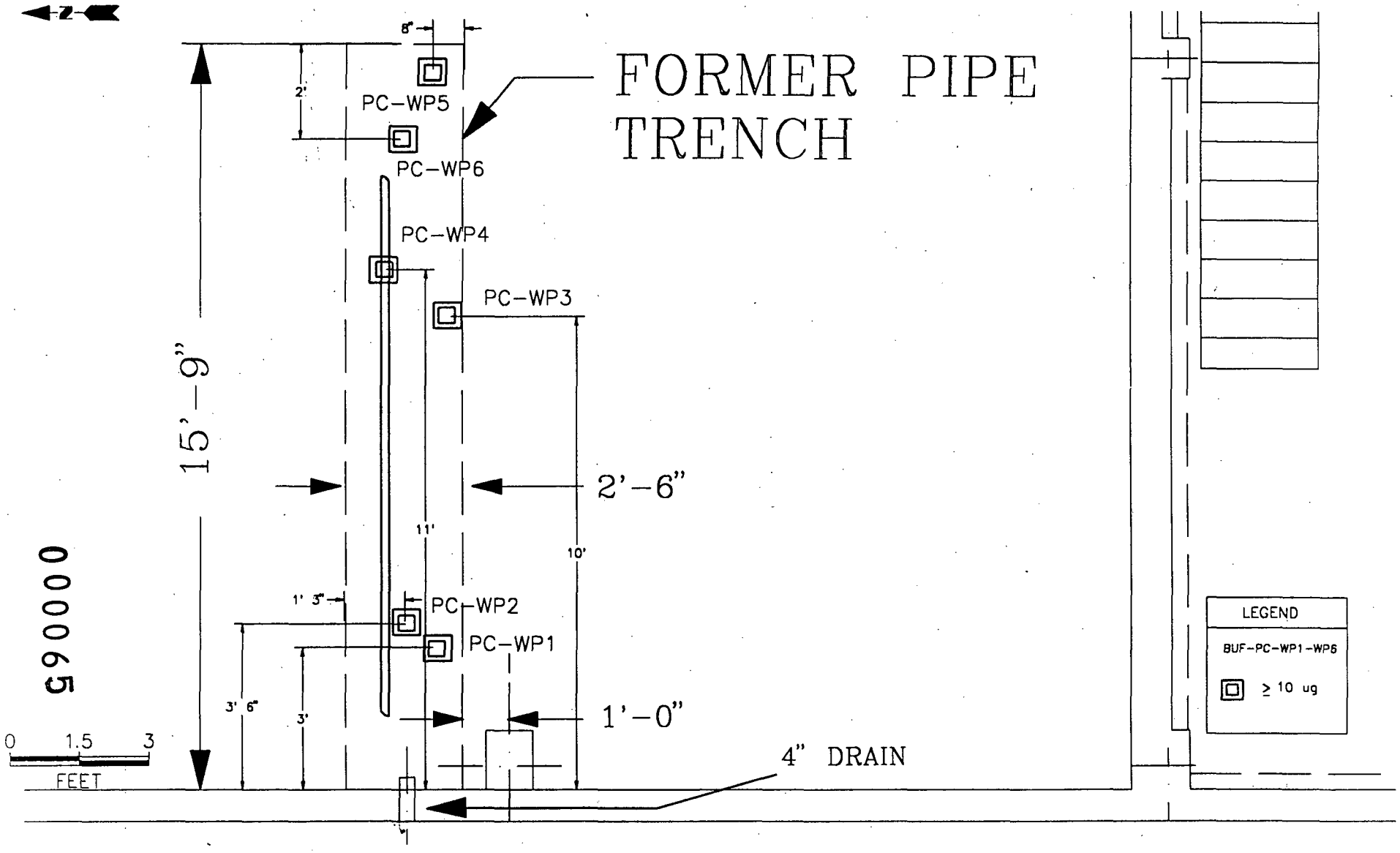
BURLINGTON ENVIRONMENTAL
- A Philip Environmental Company -

TITLE:
WILLIAMS NATURAL GAS
Buffalo, OK
Walls of Compressor Building-Samples

DWN: KMO	DES.:	PROJECT NO.: 11885
CHKD:	APPD:	
DATE: 3/1/95	REV.:	FIGURE NO.: 2



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BURLINGTON ENVIRONMENTAL – A Philip Environmental Company –	TITLE: WILLIAMS NATURAL GAS Buffalo, OK Auxiliary Pipechase	DWN: KMO	DES.:	PROJECT NO.: 11885
		CHKD:	APPD:	FIGURE NO.: 3
		DATE: 3/1/95	REV.:	

TABLES

Table 1
PCB Analytical Results for Concrete Wipe Samples
Compressor/Auxiliary Building
August 25, 1994
(Figure 1)

Sample Identification	PCB Level (μg/100 cm^2)	Comments
BUF-COM-WP1	ND(1.0)	Wipe Sample
BUF-COM-WP1D	ND(1.0)	Duplicate Wipe Sample
BUF-COM-WP2	ND(1.0)	Wipe Sample
BUF-COM-WP3	ND(1.0)	Wipe Sample
BUF-COM-WP4	ND(1.0)	Wipe Sample
BUF-COM-WP5	ND(1.0)	Wipe Sample
BUF-COM-WP6	ND(1.0)	Wipe Sample
BUF-COM-WP7	1.8	Wipe Sample
BUF-COM-WP8	8.0	Wipe Sample
BUF-COM-WP9	ND(1.0)	Wipe Sample
BUF-COM-WP10	ND(1.0)	Wipe Sample
BUF-COM-WP11	ND(1.0)	Wipe Sample
BUF-COM-WP12	5.8	Wipe Sample
BUF-COM-WP13	ND(1.0)	Wipe Sample
BUF-COM-WP13D	ND(1.0)	Duplicate Wipe Sample
BUF-COM-WP14	ND(1.0)	Wipe Sample
BUF-COM-WP15	ND(1.0)	Wipe Sample
BUF-COM-WP16	ND(1.0)	Wipe Sample
BUF-COM-WP17	2.3	Wipe Sample
BUF-COM-WP18	ND(1.0)	Wipe Sample
BUF-COM-WP19	1.4	Wipe Sample
BUF-COM-WP20	ND(1.0)	Wipe Sample
BUF-COM-WP21	1.4	Wipe Sample
BUF-COM-WP22	**36**	Wipe Sample
BUF-COM-WP23	ND(1.0)	Wipe Sample
BUF-COM-WP23D	ND(1.0)	Duplicate Wipe Sample
BUF-COM-WP24	ND(1.0)	Wipe Sample
BUF-COM-WP25	ND(1.0)	Wipe Sample
BUF-BLANK	ND(1.0)	Field Blank
BUF-COM-WP26	ND(1.0)	Wipe Sample
BUF-COM-WP27	1.8	Wipe Sample
BUF-COM-WP28	ND(1.0)	Wipe Sample
BUF-COM-WP29	ND(1.0)	Wipe Sample
BUF-COM-WP30	ND(1.0)	Wipe Sample

μg/100 cm^2 = micrograms per 100 square centimeters
ND = Not Detected; Detection limit indicated in parentheses.

Table 2
PCB Analytical Results for Surface Wipe Samples
Pipechase and Walls of the Compressor Basement
August 25, 1994
(Figures 2 and 3)

Sample Identification	PCB Level (μg/100 cm^2)	Comments
BUF-PC-WP1	**73**	Pipechase, Wipe Sample
BUF-PC-WP2	**4300**	Pipechase, Wipe Sample
BUF-PC-WP3	**900**	Pipechase, Wipe Sample
BUF-PC-WP4	**2900**	2-inch Pipe in Pipechase, Wipe Sample
BUF-PC-WP5	**650**	Pipechase, Wipe Sample
BUF-PC-WP6	**110**	Pipechase, Wipe Sample
BUF-PC-DRAIN	**1100**	Drip Drain in Pipechase, Wipe Sample
BUF-CBW-WP1	ND(1.0)	Compressor Basement Wall, Wipe Sample*
BUF-CBW-WP2	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP3	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP4	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP5	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP6	1.1	Compressor Basement Wall, Wipe Sample
BUF-ARH-WP1	**21**	3-inch Header to the Air Receivers, West Side, Wipe Sample

μg/100 cm^2 = micrograms per 100 square centimeters
ND = Not Detected; Detection limit indicated in parentheses.
* Walls of the Compressor Basement Wipe Samples (BUF-CBW-WP1 through BUF-CBW-WP6) collected approximately two feet below steel grating.

APPENDIX A

Sample Logs
Chain of Custody Documentation

Burlington Environmental Mobile Decontamination Units
SAMPLE LOG

Page_____ of_____

Client: WILLIAMS NATURAL GAS
Station: BUFFALOE, OK.
Supervisor: ROBERT VARNUM

Date Sampled	Time	Unique Identification	Sample Result	Remarks
25-94		BUF-COM-WP1		COMPRESSOR BUILDING
		BUF-COM-WP2		GRID.
		BUF-COM-WP3		
		BUF-COM-WP4		
		BUF-COM-WP5		
		BUF-COM-WP6		
		BUF-COM-WP7		
		BUF-COM-WP8		
		BUF-COM-WP9		
		BUF-COM-WP10		
		BUF-COM-WP11		
		BUF-COM-WP12		
		BUF-COM-WP13		
		BUF-COM-WP14		
		BUF-COM-WP15		
		BUF-COM-WP16		
		BUF-COM-WP17		
		BUF-COM-WP18		
		BUF-COM-WP19		
		BUF-COM-WP20		
		BUF-COM-WP21		
		BUF-COM-WP22		
		BUF-COM-WP23		
		BUF-COM-WP24		
		BUF-COM-WP25		
		BUF-COM-WP1D		
		BUF-COM-WP13D		
		BUF-COM-WP23D		
		~~BUF-[illegible]-WP1~~		
		~~BUF-[illegible]-W~~		
~~8-25-94~~		~~BUF-SUMP-WP1~~		~~WIPE OF SUMP~~
8-25-94		BUF-BLANK		FIELD BLANK.
"		BUF-COM-WP26		COMPRESSOR BUILDING
"		BUF-COM-WP27		FLOOR
"		BUF-COM-WP28		
"		BUF-COM-WP29		
"		BUF-COM-WP30		

000070

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1958

Project Name PCB LINE CLEANING
Project Number 11885 Phase . Task 3581 . 77
Samplers ROBERT VARNER
Laboratory Name ETS ANALYTICAL
Location ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	PCB'S	Comments
BUF - COM - WP1	8-25-94		WIPE	1	✓	
BUF - COM - WP2	"		"	1	✓	
BUF - COM - WP3	"		"	1	✓	
BUF - COM - WP4	"		"	1	✓	
BUF - COM - WP5	"		"	1	✓	
BUF - COM - WP6	"		"	1	✓	
BUF - COM - WP7	"		"	1	✓	
BUF - COM - WP8	"		"	1	✓	
BUF - COM - WP9	"		"	1	✓	
BUF - COM - WP10	"		"	1	✓	
BUF - COM - WP11	"		"	1	✓	

Relinquished by:

Signature	Date	Time
[signature]	8/26/94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Carrier:

Airbill No.

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify)
- ☐ Other (Specify)

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE.

0000071

-179 4/94

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1959

Project Name PCB LINE CLEANING
Project Number 11865 Phase . Task 3581 . 77
Samplers ROBERT VARNUM
Laboratory Name ETS ANALYTICAL
Location ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	PCBS	Comments
RUF-COM-WP12	8.25.94		WIPE	1	✓	
RUF-COM-WP13	"		"	1	✓	
RUF-COM-WP14	"		"	1	✓	
RUF-COM-WP15	"		"	1	✓	
RUF-COM-WP16	"		"	1	✓	
RUF-COM-WP17	"		"	1	✓	
RUF-COM-WP18	"		"	1	✓	
RUF-COM-WP19	"		"	1	✓	
RUF-COM-WP20	"		"	1	✓	
RUF-COM-WP21	"		"	1	✓	
RUF-COM-WP22	"		"	1	✓	

Relinquished by:

Signature	Date	Time
Robert Varnum	8/26/94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No
Carrier:
Airbill No.

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE

000072

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BURLINGTON ENVIRONMENTAL
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Chain-of Custody Record

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Houston, TX 77032

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(713) 442-1797 FAX

COC Serial No. D 1960

Project Name: PCB LINE CLEANING
Project Number: 11885 Phase . Task: 3581 . 77
Samplers: ROBERT VACANUM
Laboratory: Name: ETS ANALYTICAL
Location: ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCBS	Comments
BUF-COM-WP23	8-25-94		WIPE	1	✓	
BUF-COM-WP24	"		"	1	✓	
BUF-COM-WP25	"		"	1	✓	
BUF-COM-WP1D	"		"	1	✓	
BUF-COM-WP18D	"		"	1	✓	
BUF-COM-WP23D	"		"	1	✓	
BUF-SUMP-WP1	"		"	1	✓	
BUF-BLANK	"		"	1	✓	

Relinquished by:

Signature	Date	Time
[illegible]	8/26/94	0710

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Carrier:

Airbill No.

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE.

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BURLINGTON ENVIRONMENTAL
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Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1910

Project Name: PCB LINE CLEANING
Project Number: 11885 Phase . Task: 3581 . 77
Samplers: ROBERT VARNUM
Laboratory: Name: ETS ANALYTICAL
Location: ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCBs											Comments
BVF-COM-WP26	8-25-94		WIPE	1	✓											
BVF-COM-WP27				1	✓											
BVF-COM-WP28				1	✓											
BVF-COM-WP29				1	✓											
BVF-COM-WP30				1	✓											

Relinquished by:

Signature	Date	Time
[signature]		

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Carrier:

Airbill No.

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN NEVANE

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Burlington Environmental Mobile Decontamination Units

SAMPLE LOG

Page_____ of _____

Client: WILLAMS NATURAL GAS

Station: BUFFALOE, OK.

Supervisor: ROBERT YARNUM

Date Sampled	Time	Unique Identification	Sample Result	Remarks
7-25-94		BUF-PC-WP1		SAMPLES FROM
		BUF-PC-WP2		PIPECHASE.
		BUF-PC-WP3		
		BUF-PC-WP4		
		BUF-PC-WP5		
		BUF-PC-WP6		

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1941

Project Name PCB LINE CLEANING
Project Number 11685 Phase . Task 3581 . 77
Samplers ROBERT VAIL NUM
Laboratory Name ETS ANALYTICAL
Location ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCBS												Comments
BUF - PC - WP1	8-25-94		WIPE	1	✓												
BUF - PC - WP2				1	✓												
BUF - PC - WP3				1	✓												
BUF - PC - WP4				1	✓												
BUF - PC - WP5				1	✓												
BUF - PC - WP6				1	✓												

Relinquished by:

Signature	Date	Time
[signature]	8/26/94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier: **Airbill No.**

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE.

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Burlington Environmental Mobile Decontamination Units

SAMPLE LOG

2

Page_____ of_____

Client: WILLIAMS NATURAL GAS.

Station: BUFFALO

Supervisor: ROBERT VARNUM

Date Sampled	Time	Unique Identification	Sample Result	Remarks
8-25-94		BUF - PC - DRAIN 1		DRIP DRAIN IN PIPECHASE
		BUF - CBW - WP1		COMPRESSOR BASEMENT
		BUF - CBW - WP2		WALL
		BUF - CBW - WP3	APROX 2' DOWN	
		BUF - CBW - WP4	UNDER STEEL	
		BUF - CBW - WP5	GRATE INC.	
		BUF - CBW - WPC		
		BUF - ARH - WP1		3" HEADER OF AIR RECEIVE
				WEST SIDE.

000077

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1943

Project Name PCB LINE CLEANING
Project Number 11885 Phase . Task 3581 . 77
Samplers ROBERT VARNUM
Laboratory Name ETS ANALYTICAL
Location ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCBs												Comments
BUF - PC - DRAIN	8-25-94		WIPE	1	✓												
BUF - CBW - WP1	"		"	1	✓												
BUF - CBW - WP2	"		"	1	✓												
BUF - CBW - WP3	"		"	1	✓												
BUF - CBW - WP4	"		"	1	✓												
BUF - CBW - WP5	"		"	1	✓												
BUF - CBW - WP6	"		"	1	✓												
BUF - AFH - WP1	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[signature]	8-26-94	0910

Received By:

Signature	Date	Time

Samples Iced: ☑ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☑ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier:

Airbill No.

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE

000078

179 4/94

APPENDIX B

ETS Analytical Results

ETS Analytical Services, Inc.

Proudly serving industry and government since 1973.

A USEPA Contract Laboratory

A subsidiary of ETS International, Inc.

September 23, 1994

Mr. Douglas E. Birkbeck
Williams Natural Gas
One Williams Center
Mail Drop 31-1
Tulsa, Oklahoma 74101

Dear Mr. Birkbeck:

Enclosed please find the analytical data for forty eight (48) wipe samples which were analyzed for PCB's by EPA Method 8080 and are being reported in CLP format modified for reporting of PCB's only. These samples are wipe samples which were analyzed under Williams Gas CSC.VI-Contract (BUF). The chains of custody and sample login forms are attached.

As previously stated, the CLP reporting format (forms) required some modification for reporting of PCB only data, as specified below:

Form 1:	Only Aroclors listed (single component pesticides deleted).
Form 2:	No modifications required.
Form 3:	Modified to specify Aroclors as the spike "compounds". A similar form was created to report lab duplicate data (not required by CLP or Method 8080, but specified in the ETS Quality Assurance Plan).
Form 4:	No modifications required.
Form 5:	Not applicable to GC analyses.
Form 6:	Modified to accommodate reporting of five-point calibration data for Aroclors only.
Form 7:	Modified to accommodate reporting of continuing calibration data for Aroclors only. A similar form was created to accommodate reporting of initial calibration verification data (not required by CLP or Method 8080, but specified in the ETS Quality Assurance Plan). The Form 7 (continuing calibration) format has been expanded to include the run ID in order to facilitate more streamlined data validation.
Form 8:	No modifications required. Retention time windows of +/-0.1 min for TCMX and +/- 0.2 min for DCB were adopted by the laboratory, since retention time windows are not specified by Method 8080.

1401 Municipal Road, NW - Roanoke, Virginia 24012-1309 - Telephone: 703-265-0004 - FAX: 703-563-4866

Comments concerning the specific analytical data contained in this report are presented in the following paragraphs:

Lab duplicates were conducted in accordance with the ETS QA plan. Blank spikes were also performed to comply with the statement of work for this project. Sample ID terminology has been defined in previous reports.

No unusual problems were encountered in the analysis of these samples.

The diskette was prepared using Lotus 123 (rev 2.4), in the format used previously. Data for three stations are presented on a single diskette, but with separate files for each of the stations.

If there are any questions regarding these data, please feel free to contact me at any time.

Sincerely yours,

Richard R. Whitney, Ph.D.
Organics Department Manager

cc: Steve Thornton
Burlington Environmental, Inc.
Huston, TX

WILLIAMS NATURAL GAS: CUSTOMIZED REPORT FOR PCB DATA

LOCATION: BUF, PCB Line Cleaning
REPORT DATE: 9/23/94
SDG: 163231
LABORATORY: ETS ANALYTICAL SERVICES

				Aroclor										ANALYZED	
WMS GAS ID	LAB ID	MATRIX	DESCRIPTION	1016	1221	1232	1242	1248	1254	1260	UNITS	DET LIM	ANALYBY	DATE	TIME
BUF-COM-WP1	163231	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1034
BUF-COM-WP2	163232	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1126
BUF-COM-WP3	163233	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1152
BUF-COM-WP4	163234	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1218
BUF-COM-WP5	163235	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1244
BUF-COM-WP6	163236	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1310
BUF-COM-WP7	163237	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U	ug Total	1.0	TJM	09/09/94	1428
BUF-COM-WP8	163238	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0	1.0 U	ug Total	1.0	TJM	09/09/94	1454
BUF-COM-WP9	163239	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1521
BUF-COM-WP10	163240	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1547
BUF-COM-WP11	163241	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1617
BUF-COM-WP12	163242	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.8	1.0 U	ug Total	1.0	TJM	09/09/94	1709
BUF-COM-WP13	163243	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1735
BUF-COM-WP14	163244	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1801
BUF-COM-WP15	163245	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1827
BUF-COM-WP16	163246	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1945
BUF-COM-WP17	163247	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.3	1.0 U	ug Total	1.0	TJM	09/09/94	2011
BUF-COM-WP18	163248	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	2037
BUF-COM-WP19	163249	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	ug Total	1.0	TJM	09/09/94	2104
BUF-COM-WP20	163250	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	2130
BUF-COM-WP21	163251	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	ug Total	1.0	TJM	09/09/94	2314
BUF-COM-WP22	163252	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	36	1.0 U	ug Total	1.0	TJM	09/10/94	0058
BUF-COM-WP23	163253	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0124
BUF-COM-WP24	163254	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0150
BUF-COM-WP25	163255	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0217
BUF-COM-WP1D	163256	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0243
BUF-COM-WP13D	163257	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0309
BUF-COM-WP23D	163258	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	033
BUF-BLANK	163259	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0401
BUF-COM-WP26	163260	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0427
BUF-COM-WP27	163261	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U	ug Total	1.0	TJM	09/10/94	0453
BUF-COM-WP28	163262	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/13/94	1506
BUF-COM-WP29	163263	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0704
BUF-COM-WP30	163264	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0730
BUF-PC-WP1	163265	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	73	1.0 U	ug Total	1.0	TJM	09/10/94	0756
BUF-PC-WP2	163266	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4300	1.0 U	ug Total	1.0	TJM	09/13/94	1027
BUF-PC-WP3	163267	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	900	1.0 U	ug Total	1.0	TJM	09/13/94	1053
BUF-PC-WP4	163268	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2900	1.0 U	ug Total	1.0	TJM	09/13/94	1646
BUF-PC-WP5	163269	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	650	1.0 U	ug Total	1.0	TJM	09/13/94	1711
BUF-PC-WP6	163270	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	110	1.0 U	ug Total	1.0	TJM	09/10/94	1006

000082

WILLIAMS NATURAL GAS: CUSTOMIZED REPORT FOR PCB DATA

LOCATION: BUF, PCB Line Cleaning
REPORT DATE: 9/23/94
SDG: 163231
LABORATORY: ETS ANALYTICAL SERVICES

				Aroclor										ANALYZED	
WMS GAS ID	LAB ID	MATRIX	DESCRIPTION	1016	1221	1232	1242	1248	1254	1260	UNITS	DET LIM	ANALYBY	DATE	TIME
BUF-PC-DRAW	163271	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1100	1.0 U	ug Total	1.0	TJM	09/13/94	1736
BUF-CBW-WP1	163272	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1217
BUF-CBW-WP2	163273	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1243
BUF-CBW-WP3	163274	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1309
BUF-CBW-WP4	163275	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1335
BUF-CBW-WP5	163276	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1402
BUF-CBW-WP6	163277	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	ug Total	1.0	TJM	09/10/94	1427
BUF-ARH-WP1	163278	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	21	1.0 U	ug Total	1.0	TJM	09/10/94	1453

000083

APPENDIX C

Manifests and Certificates of Disposal

HAZARDOUS WASTE MANIFEST

(As Required By The Alabama Department of Environmental Management)

CEXS

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OKP410141077 — Manifest Document No.: 00001

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WILLIAMS NATURAL GAS CO
.25 N ON 183 OF HWY 11
HARPER COUNTY OK 73717

4. Generator's Phone (918)588-3383

A. State Manifest Document Number: CWMA 771896

B. State Generator's ID: 1 dm

5. Transporter 1 Company Name: JB Hunt Special Commodities

6. US EPA ID Number: ARD981998551

C. State Transporter's ID:

D. Transporter's Phone: 8 - 695-3622

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
Emelle Facility
Alabama Highway 17 at Mile Marker 163
Emelle, Alabama 35459

10. US EPA ID Number: ALD000622464

G. State Facility's ID:

H. Facility's Phone: 205/652-9721

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vo	I. Waste No.
a. RQ,POLYCHLORINATED BIPHENYLS,9,UN2315,III Disposal Approval # 081795-0019 CWM Profile # BM1863	001	dm	6.6	Kg	PCB1
b. Disposal Approval # CWM Profile #					
c. Disposal Approval # CWM Profile #					
d. Disposal Approval # CWM Profile #					

J. Additional Descriptions for Materials Listed Above
a. BM1863 PCB CONCENTRATION >50 PPM DR# 1
OUT OF SERVICE DATE 8/25/94
WEIGHT IN KILOGRAMS

State of Generation: OKLAHOMA

K. Handling Codes for Wastes Listed Above
a. L c.
b. d.

15. Special Handling Instructions and Additional Information
DISCREPANCIES CONTACT DOUG BERKBECK AT 918/855-3383.
SEND CERTIFICATE OF DISPOSAL TO ADDRESS ABOVE ATTN:
DOUG BERKBECK.

Purchase Order #

Work Order # 162017 EMERGENCY CONTACT: (800)765-8713

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can affor

Printed/Typed Name: DOUGLAS E. BIRKBECK FOR WNG — Signature: Douglas E. Birkbeck — Month Day Year: 10 14 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bobby W. MASTEN — Signature: Bobby W. Masten — Month Day Year: 10 14 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

000085

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Carol Weldon — Signature: Carol Weldon — Month Day Year: 10 17 94

EPA Form 8700-22 (Rev. 9-86) Previous edition is obsolete.

GENERATOR NO. 2 (Must Accompany Shipment)

Chemical Waste Management, Inc.

Emelle Facility
P.O. Box 55
Emelle, Alabama 35459-0055
205/652-9721

Environment &
NOV 1 5 1994
Pipeline Safety

FEDERAL EPA ID NUMBER: ALD000622464
MANIFEST DOCUMENT NUMBER: 00001

WILLIAMS NATURAL GAS CO
.25 N ON 183 OF HWY 11
HARPER COUNTY, OK 73717

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received PCB material from WILLIAMS NATURAL GAS CO described on Alabama Hazardous Waste Manifest number CWMA 771896. Chemical Waste Management, Inc. hereby certifies that the above described material {excluding PCB liquids, if applicable} was landfilled on the 19th day of October , 1994, in compliance with State and Federal Regulations.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations {18U.S.C. 1001 and 15U.S.C 2615}, I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section{s} of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Dorothy Oliver/DL

Dorothy Oliver, Recordkeeping & Reporting Supervisor

DATE: 10/26/94

PROFILE	QUANT.	DESCRIPTION
BM1863	1	DRUM

000086

PCB SITE CHARACTERIZATION
BUFFALO COMPRESSOR STATION
BUFFALO, OKLAHOMA
NE ¼, NE ¼, Sec. 1, T27N, R23W
HARPER COUNTY

Project No. 50007055
April 23, 2001

Prepared For:

WILLIAMS GAS PIPELINES SOUTH CENTRAL, INC.
Lenexa, Kansas

Prepared By:

TERRACON
Lenexa, Kansas

000087

Terracon

Terracon
13910 W. 96th Terrace
Lenexa, Kansas 66215
(913) 492-7777 Fax: (913) 492-7443

April 23, 2001

Williams Gas Pipelines South Central
13430 West 98th Street
Shawnee Mission, Kansas 66215

Attn: Mark Sullivan

RE: PCB Site Characterization
Buffalo Compressor Station
Buffalo, Oklahoma
Project No. 50007055

Dear Mr. Sullivan:

Attached is the soil and wipe sampling report for the Buffalo Compressor Station. If you have any questions or need additional information, please contact us at (913) 492-7777.

Sincerely,
TERRACON

Prepared by:

John R. Rockhold, P.G., CGWP
Senior Project Manager

Reviewed by:

Michael S. Kukuk, P.G.
Associate Principal

Attachment:

n:\projects.00\wgpc00\Buffalo(50007055)\Buffalo report v2.doc

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PCB SITE CHARACTERIZATION
BUFFALO COMPRESSOR STATION
BUFFALO, OKLAHOMA
NE ¼, NE ¼, Sec. 1, T27N, R23W
HARPER COUNTY

Project No. 50007055
April 23, 2001

EXECUTIVE SUMMARY

On behalf of Williams Gas Pipelines Central, Inc. (Williams), Terracon has performed soil and wipe sampling at the Buffalo Compressor Station in Buffalo, Oklahoma. The results of this characterization will be used to identify areas requiring clean-up. This report documents the activities that occurred. Associated figures are located in **Appendix A**; tables are contained in **Appendix B**; standard operating procedures are contained in **Appendix C**; a photo log is provided in **Appendix D**; laboratory reports are contained in **Appendix E**; a March 1995 final report and letter from Williams to EPA Region VI is provided in **Appendix F**; and, decontamination procedures are provided in **Appendix G**.

Samples collected during this sampling event concentrated on locating the impoundment and delineating polychlorinated biphenyl (PCB) contamination in the impoundment area, air receiver area, and any other potential sources not previously identified or sampled. The following summarizes the samples that were collected:

Earthen Impoundment - Twenty-five grids (BUF-I-1 through BUF-1-25) were continuously soil sampled (Refer to **Figure 3**) and analyzed for PCBs. Additionally, samples were collected for RCRA metals and semivolatile organic compounds (SVOCs) from grids BUF-I-10, 15 and 20 (B interval) and BUF-I-8, 9, 13, 14, 18 and 19 (C interval). All of these samples were analyzed for SVOCs and BUF-I-14 (C) was analyzed for metals.

Air Receiver Discharge Area - This area is the discharge location for the air receivers. Nine grids (BUF-AR-1 through BUF-AR-9) were continuously soil sampled for PCBs.

Wipe Samples - Sixteen (16) PCB wipe samples were collected from the site. Samples were collected primarily from airlines, drain lines and concrete. Refer to Section 4.2 for further details pertaining to sample locations.

Water Sample – One (1) water sample (BUF-AB-1) was collected from the standing water found in the basement area of the Engine Room. This was collected to check the water as a potential PCB source area.

One of the 25 grid locations in the impoundment area exhibited a PCB concentration greater than 25 mg/kg. Additionally, one of the 25 grid locations in the impoundment area exhibited a PCB concentration of greater than 10 mg/kg but less than 25 mg/kg. Refer to **Table 1** for the analytical results.

Seven of the 16 PCB wipe samples collected exhibited PCB concentrations, exceeding the clean-up level specified for other Williams sites of 10 $\mu g/100\ cm^2$. All seven were found within the air receiver or auxiliary building areas and were from airlines or drain lines as identified below.

SVOC compounds (1,2-Dichlorobenzene and 1,4-Dichlorobenzene) were detected in sample BUFF-I-8-C (48 to 54 inches BGS) and the sample from interval C (48 to 54 inches BGS) of grid BUF-I-14 exhibited 2-Methynaphthalene. No other SVOC constituents were detected. There are not published clean-up criteria for 1,2-Dichlorobenzene or 2-Methynaphthalene. The detected concentration of 1,4-Dichlorobenzene was below the clean-up criteria for this constituent. . Refer to **Table 3** for the analytical results. BUF-I-14-C was analyzed for RCRA Metals. None of the metal constituents exceeded the recommended action levels established for this report. . Refer to **Table 2** for the analytical results.

Analytical results of the water sample were below 5 $\mu g/l$ PCB.

PCBs were present in soil from the impoundment area. Within the impoundment, only one grid, BUF-I-19 interval B (36 to 42 inches BGS), exceeded the 25 mg/kg action level and one other grid, BUF-I-13 interval C (48 to 54 inches BGS), exceeded the 10 mg/kg action level. In addition to soil samples, several wipe samples taken inside pipe exhibited some level of PCB contamination. Seven of the 16 samples exceeded the 10 $\mu g/100\ cm^2$ action level. Six of these seven had been collected from airlines and one from a drain line.

All SVOC and metal constituents were either non-detect or below established action levels

Discussions with Williams indicates they intend to excavate soil from grids exhibiting greater than 10 mg/kg PCB. Refer to **Figure 5** for proposed excavation areas and depths. Williams also indicated they intend on tracing the air lines from the auxiliary room, then either removing them or filling them with concrete (filling with concrete or removing if PCB concentration is less than 100 $ug/100\ cm^2$ and removing piping if greater than or equal to 100 $ug/100\ cm^2$). Furthermore, discussions with Williams based on an earlier SECOR sample they indicated, they intend to the remove the air receiver line on the North side of the air receiver area.

PCB SITE CHARACTERIZATION
BUFFALO COMPRESSOR STATION
BUFFALO, OKLAHOMA
NE ¼, NE ¼, Sec. 1, T27N, R23W
HARPER COUNTY

Project No. 50007055
April 23, 2001

1.0 INTRODUCTION

On behalf of Williams Gas Pipelines Central, Inc. (Williams), Terracon has performed soil and wipe sampling at the Buffalo Compressor Station in Buffalo, Oklahoma. This report documents the activities that occurred. Associated figures are located in **Appendix A**; tables are contained in **Appendix B**; standard operating procedures are contained in **Appendix C**; a photo log is provided in **Appendix D**; laboratory reports are contained in **Appendix E**; a March 1995 final report and letter from Williams to EPA Region VI is provided in **Appendix F**; and, decontamination procedures are provided in **Appendix G**.

1.1 Objectives

The purpose of this investigation was to collect analytical data what will be used to identify areas requiring clean-up. Samples were collected from specific areas of the site not previously sampled to obtain data that could be compared to other similar Williams facilities that were included in a 1991 consent order. The Buffalo site was not included in the 1991 consent order.

1.2 Physical Setting

The Buffalo station is located one-quarter mile north of the intersection of Oklahoma Highways 64 & 183, northeast of the city of Buffalo, Oklahoma (Refer to **Figure 1**). The property is located within the NE ¼, NE ¼, of Section 1, Township 27 North, Range 23 West in Harper County. Topography is nearly level to gently sloping plains. Neighboring properties are generally rural and primarily agricultural land. The nearest surface water to the site is an intermittent stream located approximately one-eighth mile east of the site, and a tributary to Buffalo Creek located approximately one-quarter mile west of the site.

1.3 Site History

According to Williams personnel, the Buffalo compressor station has not been in operation since the early 1970's. Additionally, at some time during the 1970's, the site structures were removed leaving only the foundations and some of the underground piping. The site currently consists of building foundations and concrete pads from the former engine room and auxiliary building, the engine room basement, piping in the former air receiver area, and fin fans area. An approximate 50-foot by 50-foot earthen impoundment was constructed when the site was in operation, and later backfilled with soil. Refer to **Figure 2** for the site layout.

Based on sampling from other Williams compressor stations that utilized Pydraul AC compressor oil, as did the Buffalo compressor station, Williams decided to evaluate the presence of polychlorinated biphenyls (PCBs) at the Buffalo site. An initial site characterization was performed by ERM-Rocky Mountain in April of 1994 (Report dated December 2, 1994), followed by another site characterization by Burlington Environmental in August of 1994 (Report dated April 6, 1995. The site characterization reports were used to guide concrete decontamination performed by SECOR International, Inc. in January of 1995 (Report dated July 1995). This site characterization is a follow-up to the decontamination project.

1.3.1 ERM Rocky Mountain 1994 Report

ERM Rocky Mountain, Inc. conducted a site screening of the former Buffalo Compressor Station on April 18, 1994. A total of 25 soil samples were collected from the site; 24 samples were analyzed for PCB (one sample was broken during delivery). Two wipe samples were collected from the air line header; three water and two oil samples were collected from the basement; and, 17 soil samples were collected from areas where PCB contaminants were most likely to be present. These areas included the following areas: the former air receiver area; the former service air discharge area; the former prelube air pipe area; the backfilled impoundment; and, upgradient and downgradient areas. No off-site soil samples were collected.

Analytical results indicated that one soil sample exceeded 25 mg/kg PCB. BUF-005-SO collected from the former air receiver area contained 38 mg/kg PCB-1254. Four additional soil samples were reported as having PCB levels between 9.4 and 21.0 mg/kg. The remaining soil samples did not contain PCB above the laboratory detection limit. The water, oil and wipe samples, including an equipment rinse sample, contained no PCBs above laboratory detection limits.

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1.3.2 Burlington Environmental 1995 Report

Burlington Environmental Inc. conducted a site characterization to evaluate the extent of potential PCB contamination in the remaining concrete and airline piping. Burlington collected 48 wipe samples from the upper level floor of the former compressor engine room and auxiliary building, walls of the engine pedestals, pipechase in the auxiliary building, associated metallic piping within the pipechase, and from the air receiver header. All 48 samples were submitted for PCB analysis.

Analytical results indicated that one wipe sample from the floor of the auxiliary building (BUF-COM-WP22) had a PCB level of 36 $\mu g/100\ cm^2$. Seven auxiliary building pipechase wipe samples (BUF-PC-WP1 through BUF-PC-WP6 and BUF-PC-DRAIN) and one three-inch header to the former air receivers (BUF-ARH-WP1) indicated PCB levels greater than 10 $\mu g/100\ cm^2$. PCB contamination greater than 10 $\mu g/100\ cm^2$ was limited to the vicinity of wipe sample BUF-COM-WP22, to the header of the air receivers, and to the pipechase. Burlington recommended that these areas be cleaned in accordance with accepted EPA protocols.

1.3.3 SECOR International Decontamination Report

SECOR International, Inc. performed a detailed site characterization of the basement floor following cleanup of the non-PCB water, sludge and oil that had collected in the basement area. Subsequent to this site characterization of the basement floor, SECOR performed floor washing and concrete cleanup activities of the contaminated area of the top floor of the former auxiliary building, the former pipechase, and areas of the basement of the former engine room.

On January 16, 1995 SECOR collected composite soil, sediment and oil samples from the basement of the former Buffalo station and submitted them for PCB analysis. Analytical results indicated that all had levels less than 1.0 mg/kg.

On January 17, 1995 SECOR performed concrete decontamination of the auxiliary building pipechase identified form the Burlington concrete site characterization. Analytical results indicated that verification samples (T-BUF-IPC-01A through 08A) all had levels less than 10 $\mu g/100\ cm^2$.

On January 19, 1995 SECOR performed concrete decontamination of the auxiliary building floor area identified from the Burlington concrete site characterization. Subsequent verification samples (T-BUF-AUX-31A through 35A) all had PCB levels less than 10 $\mu g/100\ cm^2$.

On February 1, 1995 SECOR performed concrete site characterization of the basement. Analytical results indicated that six compressor engine room basement floor wipe samples (T-BUF-CBAS-01, 01REP, 05, 07, 18 and 24) had PCB levels of greater than 10 $\mu g/100\ cm^2$.

On February 13, 1995 SECOR performed concrete decontamination of the basement. Analytical results indicated that verification wipe samples (BUF-CBAS-1A through 14A) all had PCB levels less than 10 $\mu g/100\ cm^2$. In a letter dated March 20, 1995 to the EPA Region VI, Williams reported the results of the decontamination and pipe removal activities and notified the EPA of the removal of non-contaminated metallic piping from the basement and basement backfilling.

All targeted locations of the site required one decontamination event to attain the clean-up criteria of less than 10 $\mu g/100\ cm^2$. Approximately 3,000 square feet of surface area were chemically decontaminated. Wipe samples were collected from the decontaminated area to verify cleanup. None of the confirmation wipe samples were found to contain PCB above the 10 $\mu g/100\ cm^2$ regulatory limit.

2.0 FIELD ACTIVITIES

Terracon was contracted by Williams to conduct soil and wipe sampling at the compressor station. This site characterization recently completed by Terracon (the subject of this report) was designed to locate the impoundment and to fill in data gaps as well as address other possible PCB sources identified during previous on-site investigations.

2.1 November 30, 2000 Sampling Event

Samples collected during this sampling event concentrated on locating the backfilled impoundment and delineating PCB contamination in the impoundment area, air receiver area, and on potential sources not previously identified or sampled. The following summarizes the samples that were collected:

Earthen Impoundment - This area received boiler and air compressor condensate, which may have contained PCBs. Additionally, samples were collected for RCRA metals and semivolatile organic compounds (SVOCs) from grids BUF-I-10, 15 and 20 (B interval) and BUF-I-8, 9, 13, 14, 18 and 19 (C interval). All of these samples were analyzed for SVOCs and BUF-I-14 (C) was analyzed for metals.

- Twenty-five grids (BUF-I-1 through BUF-1-25) were continuously soil sampled (Refer to **Figure 3**). The grids were established around the impoundment and measured 20-foot by 20-foot. The following samples were collected from each of these grids as identified below:

Number of Samples Collected	Depth of Samples (inches below ground surface)	Designated Sample Interval	Sampled Grid ID Numbers (BUF-I-#)
16	24-30	A	1-6, 10-11, 15-16, & 20-25
25	36-42	B	1-25
25	48-54	C	1-25
25	60-66	D	1-25
9	72-78	E	7, 12-19
3	84-90	F	7, 14, & 15
1	96-102	G	14
1	108-114	H	14

Air Receiver Discharge Area - This area is the discharge location for the air receivers. Grid BUF-AR-5 was centered over the air receiver discharge point (**Figure 4**) because soil below the discharge point may have contained PCBs from the draining air receiver condensate. In the event that target constituents had been detected at the discharge point, eight additional grids were placed adjacent to BUF-AR-5.

- Nine grids (BUF-AR-1 through BUF-AR-9) were continuously soil sampled. The grids were established around the air receiver discharge area and measured 10-foot by 10-foot. The following samples were collected at each of these grids as identified below:

Number of Samples Collected	Depth of Samples (inches below ground surface)	Designated Sample Interval	Sampled Grid ID Numbers (BUF-I-#)
9	0-6	A	1-9
9	12-18	B	1-9
9	24-30	C	1-9

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Wipe Samples - Sixteen (16) wipe samples were collected from the site. Refer to Section 4.2 for further details pertaining to sample locations. The following samples were collected from the specified areas as identified below:

Wipe Sample Identifications	Sample Location Descriptions
BUF-I-WP-1	Drain Line #1, East facing of the Energy Dissipation Stack
BUF-I-WP-2	Drain Line #2, West facing of the Energy Dissipation Stack
BUF-I-WP-3	Energy Dissipation Stack wall
BUF-AR-WP-1	3-inch West Air Header
BUF-AR-WP-2	3-inch East Air Header
BUF-AR-WP-3	2-inch Air Receiver Line
BUF-AR-WP-4	1-inch Air Line to Oil Tank
BUF-AR-WP-5	East AR Drain Line
BUF-AR-WP-6	West AR Drain Line
BUF-AR-WP-7	Floor Drain in NW Corner of Auxiliary Building
BUF-AR-WP-8	3-inch 1st Line (South)
BUF-AR-WP-9	2-inch 2nd Line
BUF-AR-WP-10	2-inch 3rd Line
BUF-AR-WP-11	2-inch 4th Line
BUF-AR-WP-12	2-inch 5th Line
BUF-AR-WP-13	2-inch 6th Line (North)

Water Sample – One water sample (BUF-AB-1) was collected from the standing water found in the basement area of the engine room. This was collected to check for a potential PCB source area.

000098

Quality Assurance/Quality Control (QA/QC) Samples – In accordance with the Quality Assurance Project Plan (QAPP) for this site, duplicate and split soil samples were collected and analyzed for 10% of the samples collected for analysis. Additionally, equipment rinsate blanks were collected for 5% of the samples collected for analysis. Of the 130 soil samples 116 were analyzed for PCB. All 16 wipe samples collected were analyzed for PCB's. The QA/QC samples collected for this sampling event are as follows:

Number of Samples Collected	Type of Sample	Number of Samples Analyzed
12	Duplicate	9
11	Split	9
7	Equipment Rinsate Blanks	6

2.2 Field Personnel

Tony Poulter acted as the field team leader for this event. The following Terracon personnel participated in the sampling: Tony Poulter; Jason Franks; Vince Payne; and, Guy Griffin. Mark Sullivan was present to provide assistance in locating and defining operational equipment, possible discharge points, and impoundments to the Terracon staff. In addition, Mr. Sullivan acted in the role as company representative performing oversight activities for Williams.

2.3 Health and Safety Procedures

A Health and Safety (H&S) meeting was conducted at the hotel prior to beginning the sampling activities at the site on November 30, 2000. Health and safety procedures as outlined within the site H&S plan were followed. Appropriate personal protection equipment (PPE) was worn during sampling activities. The PPE included standard work uniform, hard hat, chemical-resistant safety footwear, and disposable nitrile gloves.

2.4 Waste Disposal

Wastewater collected from field decontamination activities was stored on site. At the end of the fieldwork the liquid waste generated during the project (less than 4 gallons) was disposed of on the ground in grid BUF-I-14, as agreed with the Williams representative. Williams indicated soil from this grid will be excavated and disposed of properly. Excess sample material was returned to the grid from which it was collected. All PPE and disposable sampling equipment were properly containerized and disposed of by Terracon in a municipal solid waste landfill.

3.0 SOIL SAMPLING

All soil sampling equipment was properly decontaminated in general accordance with the procedures outlined in Appendix B of the QAPP provided in **Appendix G** of this document. Decontamination was conducted prior to field activities and following the use of each piece of equipment for sample collection.

3.1 Soil Sampling Procedures

A track-mounted Geoprobe® unit was used to advance a macro-core soil sampler (four feet long by two inches in diameter) encapsulating up to a four-foot core of material within an acetate liner. The sampler was then withdrawn to the surface, retaining the material sample in the liner. Once the liner was retrieved, sample recovery was measured and cut into the specified sampling intervals. Standard operating procedures for macro-core soil sample recovery are provided in **Appendix C**.

Four samples were extracted from depths of 24 to 30 inches, 36 to 42 inches, 48 to 54 inches, and 60 to 66 inches below ground surface (BGS) (one from each depth, intervals A, B, C and D, respectively) from the outer grids of the earthen impoundment. Sampling began at 24 inches BGS because historical information indicated that the impoundment had been backfilled and brought up to grade; therefore the top 24 inches (at a minimum) were backfill material. During sampling it was determined there was roughly four feet of fill on the inner grids of the impoundment, thus interval A was not collected for several of the grids. If there appeared to be possible contamination (based on visual observation) at depths below the D interval, then samples were collected from 72 to 78 inches, 84 to 90 inches 96 to 102 inches and 108 to 114 inches BGS (intervals E, F, G, and H, respectively), when necessary. For Grid BUF-I-14, the sampler was pushed to 12 feet BGS. The bottom of impoundment material appeared to end at 9.5 feet BGS.

In addition to samples collected for PCB analysis, samples were also collected for SVOC's and RCRA metals from grids I-10, 15 and 20 (B interval only) and I-8, 9, 13, 14, 18 and 19 (C interval only).

Three soil samples were collected from each air receiver grid location at depths of 0 to 6 inches, 12 to 18 inches, and 24 to 30 inches BGS (intervals A, B, and C, respectively). Sampling at further depths within this area did not appear necessary.

The sample material from each interval was thoroughly mixed by hand and placed into laboratory provided containers. The remainder of each sample not used was returned to the

hole from which it was collected. Wooden stakes were placed in each of the sample locations with identifying markings and visible coloring on top for quick recognition of the surveyed in sampling point.

Sample containers were labeled in general accordance with the QAPP. Each sample was given a three-letter site designation, a one or two-letter area designation, and a sequential number followed by a depth identifier of A, B, C, D, etc. Other information recorded on the labels of the sample containers included sampling date and time, analyses requested, sampled depth (if applicable), and sampler's initials.

Soil samples were containerized and sealed in containers provided by the laboratory. Each container was labeled with an identifying number that corresponded to the sample location, date sample was taken, depth, sampler, time collected, and analysis required. Sample containers were placed in a cooler and maintained at approximately 4°C.

All samples were handled by standard chain-of-custody procedures. The chain-of-custody form included the following information:

Date/Time of each sample
Person obtaining sample
Requested analysis/method
Sample location identification
Sample type
Signature of person taking custody of samples

Sample coolers were delivered by overnight express mail or hand delivered by Terracon to the approved laboratory. PCB analysis was performed on A, B, C, and D intervals of the earthen impoundment and interval A of the air receiver area. Samples from grids BUF-I-10, 15 and 20 (B interval) and BUF-I-8, 9, 13, 14, 18 and 19 (C interval) were analyzed for SVOCs. Only one sample, BUF-I-14C, was analyzed for RCRA metals.

Analysis for SVOCs and metals was conducted because ERM did not originally collect samples for these parameters. Other similar Williams' sites (USEPA Region 7) have occasionally found SVOCs and metals in the impoundment area. A sample from grid BUF-I-14 (sample BUF-I-14C) was collected and analyzed because this grid was believed to have the greatest potential for containing these compounds. Samples from adjoining grids were collected and placed on hold awaiting the results from the suspect grid. If the results did not indicate levels of concern, then the samples from the adjoining grids were not analyzed. If contaminant levels from the suspect grid were of concern, then the samples from the adjoining grids were analyzed.

VOC samples were not collected or analyzed because based on prior testing, these compounds have not been identified at similar Williams' sites at levels of concern. This protocol has been accepted and used successfully for several Williams' sites in USEPA Region 7. In a meeting on August 8, 2000, USEPA Region 6 agreed to accept this protocol.

3.2 Soil Sample Locations

Soil samples were collected at the Buffalo station from the following locations:

- The impoundment was divided into 25 20-foot square grids, which were surveyed in. One location near the center of each grid was sampled. If the grid contained physical obstructions, which prevented sampling near the center, the sample location within the grid was offset within the grid, recorded and marked in the field. Sample grid locations are shown on **Figure 3**. All grids were analyzed for PCBs. Nine of the grids were sampled for RCRA metals and SVOCs was analyzed. All nine grids were analyzed for SVOCs and one grid was analyzed for RCRA metals.

- The air receiver discharge area was divided into nine 10-foot square grids, which were surveyed in. One location near the center of each grid was sampled. If the grid contained physical obstructions, which prevented sampling near the center, the sample location within the grid was offset within the grid and recorded. Sample locations are shown on **Figure 4**. Twenty-seven (27) soil samples were collected from this area; nine of these were analyzed for PCBs.

4.0 PCB WIPE SAMPLING

Sixteen (16) PCB wipe samples were collected to help identify potential areas requiring cleaning.

4.1 PCB Wipe Sampling Procedures

PCB wipe samples were collected using laboratory-provided sampling kits. The sampling kits consisted of sterile gauze pads saturated with approximately 5 milliliters (ml) of reagent-grade hexane within a glass vial. The gauze pad was used to thoroughly swab a 100 cm^2 area measured by a single-use cardboard sampling template. If the template could not be used on the area to sampled (i.e. 2-inch diameter pipe) the 100 cm^2 area was estimated. Upon collection of the sample the gauze was immediately placed back into the laboratory-provided glass vial, labeled and prepared for shipment to the laboratory.

4.2 PCB Wipe Sample Locations

The 16 PCB wipe samples were collected from the following locations to identify potential PCB source areas:

- One sample was collected from the drainpipe stack wall located in the impoundment area (refer to photo log in **Appendix D**).
- Two samples were collected from drain lines located on the east and west side of the drain pipe stack (refer to photo log in **Appendix D**).
- Seven samples were collected from the Auxiliary Building; one from the corner of the building and six from the discharge pipes leaving the building (refer to photo log in **Appendix D**).
- Six samples were collected from various lines near the air receiver area. Two were collected from the west and east air headers (3-inch lines). Two were collected from the east and west air receiver drain lines. One was collected from the 2-inch air receiver line and one from the airline to the oil tank (refer to photo log in **Appendix D**).

5.0 WATER SAMPLE

One water grab sample was collected from the standing water within the basement area of the engine room. This sample was collected to check the water as a potential source of PCB contamination.

6.0 SUMMARY OF RESULTS

6.1 Comparative Regulatory Criteria

This section describes how the laboratory results are compared in this report with regulatory criteria or action levels. The samples were analyzed using Level IV CLP procedures. The Level IV CLP data package is not presented in this report but is on file with Williams. The recommendations for further action are based on these findings and regulatory criteria. That is, in cases where the concentration in the sample exceeds the action level adopted herein, Williams has indicated that they intend to perform additional work.

6.1.1 Eight RCRA Metals

Regulatory action levels as specified in previous consent orders for similar Williams sites will be used if available. If an action level for a specific metal has not been specified, then the TCLP

regulatory limits, as defined in 40 CFR Part 261.24, will be modified as comparative standards. It should be recognized that these comparative standards do not represent required regulatory cleanup standards but merely reflect levels at which regulatory action may be likely to occur.

Typically, only a small portion of the total metals concentration is leachable by the TCLP method. Given the dilution inherent to TCLP, the total metals concentration would have to be at least 20 times greater than the TCLP regulatory level in order for quantities in excess of the regulatory level to be present in the extract. Therefore, the modified TCLP limit used for comparison in this report is 20 times the total limits.

6.1.1 Polychlorinated Biphenyls (PCB)

The regulatory action level for PCBs in soil as specified in previous consent orders for similar Williams sites is 25 mg/kg for restricted use and 10 mg/kg for unrestricted use. Therefore, the action level for this site is assumed to be the same. The PCB clean-up level for concrete and metal specified for other Williams sites is 10 $\mu g/100\ cm^2$ and is assumed to be the same at this site.

6.1.2 Semivolatile Organics

As with total metals, regulatory criteria applicable to soil does not exist for all semivolatile organic compounds. However, TCLP regulatory criteria do exist for several semivolatile constituents (40 CFR Part 261.24). Therefore, the same modification of the TCLP regulatory limits as previously described will be used. For constituents that are not on the TCLP list, action levels for similar Williams sites are used for comparison.

6.2 Evaluation of Analytical Results

The laboratory analytical data reports are presented in **Appendix E**. Analytical results are summarized in **Table 1**: Polychlorinated Biphenyls, **Table 2**: RCRA Metals, and **Table 3**: Semivolatile Organic Compounds, all contained in **Appendix B**.

6.2.1 Eight RCRA Metals

None of the metal constituents exceeded the recommended action levels established for this assessment.

000104

6.2.2 Polychlorinated Biphenyls (PCB)

One of the 25 grid locations in the impoundment area that were analyzed for PCBs exhibited a PCB concentration greater than 25 mg/kg. The B sample interval (36 to 42 inches BGS) of BUF-I-19 exhibited a PCB concentration of 25.3 mg/kg, but interval C (48 to 54 inches BGS) of this same grid was below 25 mg/kg (3.82 mg/kg). Additionally, one of the 25 grid locations in the impoundment area exhibited a PCB concentration of greater than 10 mg/kg but less than 25 mg/kg. The C sample interval (48 to 54 inches BGS) from BUF-I-13 exhibited a PCB concentration of 15.7 mg/kg. PCB results from other impoundment grids and the air receiver grids analyzed did not exceed 10 mg/kg. Refer to **Figure 3** for the location of the grids with PCB concentrations greater than 10 and 25 mg/kg.

Seven of the 16 PCB wipe samples collected exhibited PCB concentrations exceeding the clean-up level specified for other Williams sites of 10 μg/100 cm^2. All seven were found within the air receiver or auxiliary building areas and were from airlines or drain lines as identified below. Refer to **Table 1** for the analytical results.

Wipe Sample Identifications	Sample Location Descriptions
BUF-AR-WP-6	West AR Drain Line
BUF-AR-WP-8	3-inch 1st Line (South)
BUF-AR-WP-9	2-inch 2nd Line
BUF-AR-WP-10	2-inch 3rd Line
BUF-AR-WP-11	2-inch 4th Line
BUF-AR-WP-12	2-inch 5th Line
BUF-AR-WP-13	2-inch 6th Line (North)

PCB analytical results of the water sample were below 5 μg /l.

000105

6.2.3 Semivolatile Organics

Initially, only interval C (48 to 54 inches BGS) of grid BUF-I-14 was analyzed for semivolatile organic constituents. All constituents resulted in a non-detect except for 2-Methynaphthalene which was detected at a concentration of 6,770 μg /kg. Published clean-up criteria could not be found for this constituent. Subsequent to the reporting of this analysis, it was discovered that

the laboratory practical reporting limit for this sample for some of the SVOC constituents was above the regulatory action levels for this site. Therefore, the samples from adjoining grids were analyzed. The samples from adjoining grids had previously been extracted within holding times. However, the actual analysis for these samples exceeded holding times. Even with the holding time exceeded, we believe the results are representative and reasonable. Only one of these samples BUF-I-8-C exhibited SVOC constituents above the laboratory practical reporting limit (1,2-Dichlorobenzene and 1,4-Dichlorobenzene at concentrations of 2,770 ug/kg and 748 ug/kg, respectively). Published clean-up criteria for 1,2-Dichlorobenzene could not be found. The regulatory clean-up criteria for 1,4-Dichlorobenzene for this site is 150,000 ug/kg.

6.2.4 Quality Assurance/Quality Control Samples

Laboratory AQ/QC included method blanks, matrix spikes, matrix spike duplicates, surrogate recovery, and laboratory control samples. Additional QA was provided by duplicate, split, and rinsate samples.

- Method Blanks – There were no analytes of interest detected in their associate method blanks.
- Matrix Spikes – Matrix spike recoveries were generally within the QAPP specified control limits.
- Matrix Spike Duplicates – Matrix spike duplicate recoveries were generally within the QAPP specified control limits.
- Surrogate Recoveries – Surrogate recoveries were generally within the QAPP specified control limits. Some of the samples were out of limits and were Q coded.
- Laboratory Control Samples – Laboratory control sample recoveries were generally within the individual laboratory determined control limits for each analyte per USEPA Method 8082.
- Duplicate and Split Samples – Duplicate and split samples were generally comparable and generally appeared to be sufficient to determine if samples were below or above the cleanup criteria.
- Rinsate Samples – Rinsate samples did not detect analytes above the detection limits.

6.3 Conclusions

It appears that at some time in the past a lubricant containing PCB (i.e. Pydraul AC compressor oil) may have been used in the compressor system at the Buffalo station. The compound was detected at low levels (below action levels) in the soil samples collected beneath the air receiver discharge area. PCBs were also present in soil from the impoundment area. Within the

impoundment, only one sample, BUF-I-19 interval B (36 to 42 inches BGS), exceeded the 25 mg/kg action level and one other sample collected from BUF-I-13 interval C (48 to 54 inches BGS) exceeded the 10 mg/kg action level. In addition to soil samples, several wipe samples exhibited some level of PCB contamination. Seven of the 16 samples exceeded the 10 μg/100 cm^2 action level. Six of these seven were from airlines and one from a drain line.

All target metal and SVOC constituents were either non-detect or below established action levels.

6.4 Recommendations

Discussions between Terracon and Willliams resulted in the following:

- Williams recommends excavation of soil from grids exhibiting greater than 10 mg/kg PCB. It is recommended the soil be excavated down vertical to the next sample interval with a PCB concentration less than 10 mg/kg for PCB.

- Williams proposes the analytical data presented in this report will also serve as confirmation for excavation once performed. For example, if the soil sample collected from 36 to 42 inches BGS (level B) exceeds the cleanup criteria for PCBs, and the sample collected from 48 to 54 inches BGS (level C) does not, the appropriate depth of excavation will be 48 inches BGS. Refer to **Figure 5** for proposed excavation areas and depths.

- Williams proposes to verify its cleanup extent and depth by surveying the excavation as samples were previously collected and are CLP data quality samples.

- Williams recommends tracing the lines from the Auxiliary Building, then either removing them or filling them with concrete based on their concentration levels. Additional cleanup should also be performed on lines with PCB levels above 10 μg/100 cm^2 in accordance of accepted EPA protocols.

- Williams recommends the removal of the air receiver line on the north side of the air receiver area.

7.0 GENERAL COMMENTS

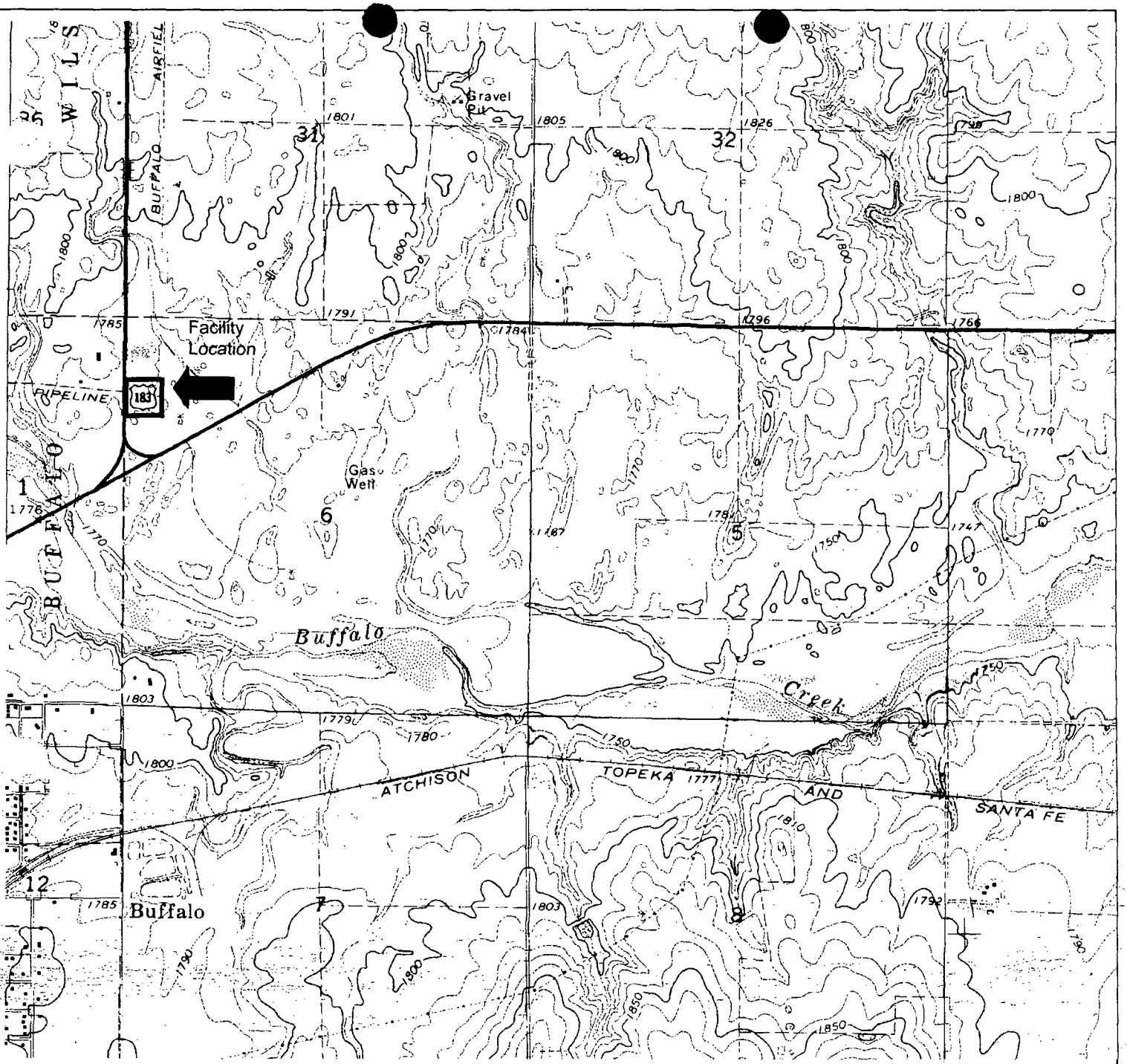
000107

This report was prepared for the exclusive use of Williams for specific application to this project and has been prepared in accordance with generally accepted practices and Williams direction. The analysis, conclusions, and recommendations presented in this report are based upon data

obtained from the sampling performed as described at the locations indicated and from information as discussed within this report. This report does not reflect variations of subsurface stratigraphy or soil quality, which may occur between sampling locations or across the site. If significant variations are discovered during future activities at the site, it may be necessary to re-evaluate the analysis, conclusions, and recommendations contained in this report. Terracon does not warrant the work of regulatory agencies or other parties, which may have supplied information used in the assimilation of this document. No warranties, express or implied, are intended or made.

APPENDIX A:

Figures



SCALE 1:24,000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

000110

N

U.S.G.S. 7.5 MINUTE SERIES TOPOGRAPHIC MAP

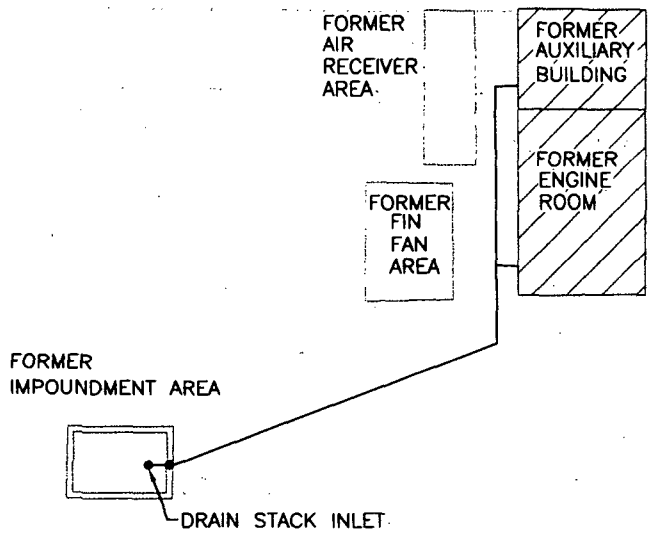
STATE of OKLAHOMA QUADRANGLE

BUFFALO SE

1975

FIGURE 1 - SITE VICINITY MAP
BUFFALO COMPRESSOR STATION
T27N, R23W, Sec. 1
Harper County, Oklahoma

Proj. Mngr: JRR	Terracon	Proj. # 50007055
Designed by: JRF	13910 West 96th Terrace Lenexa, Kansas 66215	FN: Figure1.ppt
Drawn by: JRF		Date: 01-05-01



HIGHWAY 183

000111

BUFFALO COMPRESSOR STATION
NE 1/4, NE 1/4, SEC.1, T 27N, R 23 W
HARPER COUNTY, OKLAHOMA

N

DIAGRAM IS FOR GENERAL LOCATION ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

R1 2-23-01 DBN

SITE DIAGRAM
WILLIAMS GAS PIPELINE SOUTH CENTRAL
BUFFALO, OKLAHOMA

Project Mngr:	AJP	Terracon	Project No.	50007055
Designed By:	VEP		Scale:	NOT TO SCALE
Checked By:	JRR	13910 WEST 96th TERRACE	Date:	01-04-01
Approved By:	JRR	LENEXA, KANSAS 66215	Drawn By:	TKW
File Name:	NEW_FIG-2.dwg		Figure No.	2

BUF-I-1 A ND B ND C ND D ND	BUF-I-2 A ND B ND C <10 D ND	BUF-I-3 A <10 B <10 C <10 D ND	BUF-I-4 A <10 B <10 C <10 D ND	BUF-I-5 A ND B ND C ND D ND
BUF-I-6 A ND B ND C ND D ND	BUF-I-7 B ND C <10 D <10	BUF-I-8 B <10 C <10 D <10	BUF-I-9 B ND C <10 D <10	BUF-I-10 A ND B ND C ND D ND
BUF-I-11 A ND B ND C ND D ND	BUF-I-12 B <10 C <10/<10/<10 D <10	BUF-I-13 B <10/<10/<10 C <10/<25/<10 D <10/<10/<10	BUF-I-14 B ND/ND/ND C <10/<10/<10 D <10/<10/<10	BUF-I-15 A ND B ND C ND D ND
BUF-I-16 A ND B ND C ND D ND	BUF-I-17 B ND C <10 D <10	BUF-I-18 B ND C <10 D <10	BUF-I-19 B >25 C <10 D <10	BUF-I-20 A <10 B ND C ND D ND
BUF-I-21 A ND B ND C ND D ND	BUF-I-22 A ND B ND C ND D ND	BUF-I-23 A ND B ND C ND D ND	BUF-I-24 A ND B ND C ND D ND	BUF-I-25 A ND B ND C ND D ND

DRAIN STACK INLET

APPROXIMATE IMPOUNDMENT BOUNDARY

LEGEND

ND NOT DETECTED

GRIDS EXHIBITING TOTAL PCB >25 mg/kg

GRIDS EXHIBITING TOTAL PCB >10 mg/kg & <25mg/kg

BUFFALO COMPRESSOR STATION
NE 1/4, NE 1/4, SEC.1, T 27N, R 23 W
HARPER COUNTY, OKLAHOMA

BUF-I-14
B ND/ND/ND C <10/<10/<10 D <10/<10/<10

= GRID ID

= SAMPLE ID, RESULT/DUPLICATE &/OR SPLIT RESULT IN mg/kg

000112

N

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

R1 TKW 01-31-01

IMPOUNDMENT AREA GRID – PCB RESULTS
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr: AJP	Terracon	Project No. 50007055	
Designed By: VEP		Scale: 1"=20'	
Checked By: JRR	13910 WEST 96th TERRACE LENEXA, KANSAS 66215	Date: 11-04-00	
Approved By: JRR		Drawn By: TKW	
File Name: FIGURE3.DWG		Figure No. 3	

FORMER AIR RECEIVERS

BUF-AR-1 A ND	BUF-AR-2 A <10	BUF-AR-3 A <10
BUF-AR-4 A ND	BUF-AR-5 A <10/<10/<10	BUF-AR-6 A <10
BUF-AR-7 A <10	BUF-AR-8 A ND	BUF-AR-9 A ND

FORMER AIR RECEIVERS

FORMER AUXILIARY BUILDING

BUFFALO COMPRESSOR STATION
NE 1/4, NE 1/4, SEC.1, T 27N, R 23 W
HARPER COUNTY, OKLAHOMA

LEGEND

ND NOT DETECTED

BUF-AR-5 = GRID ID
A <10/<10/<10 = SAMPLE ID, RESULT/DUPLICATE &/OR SPLIT RESULT IN mg/kg

000113

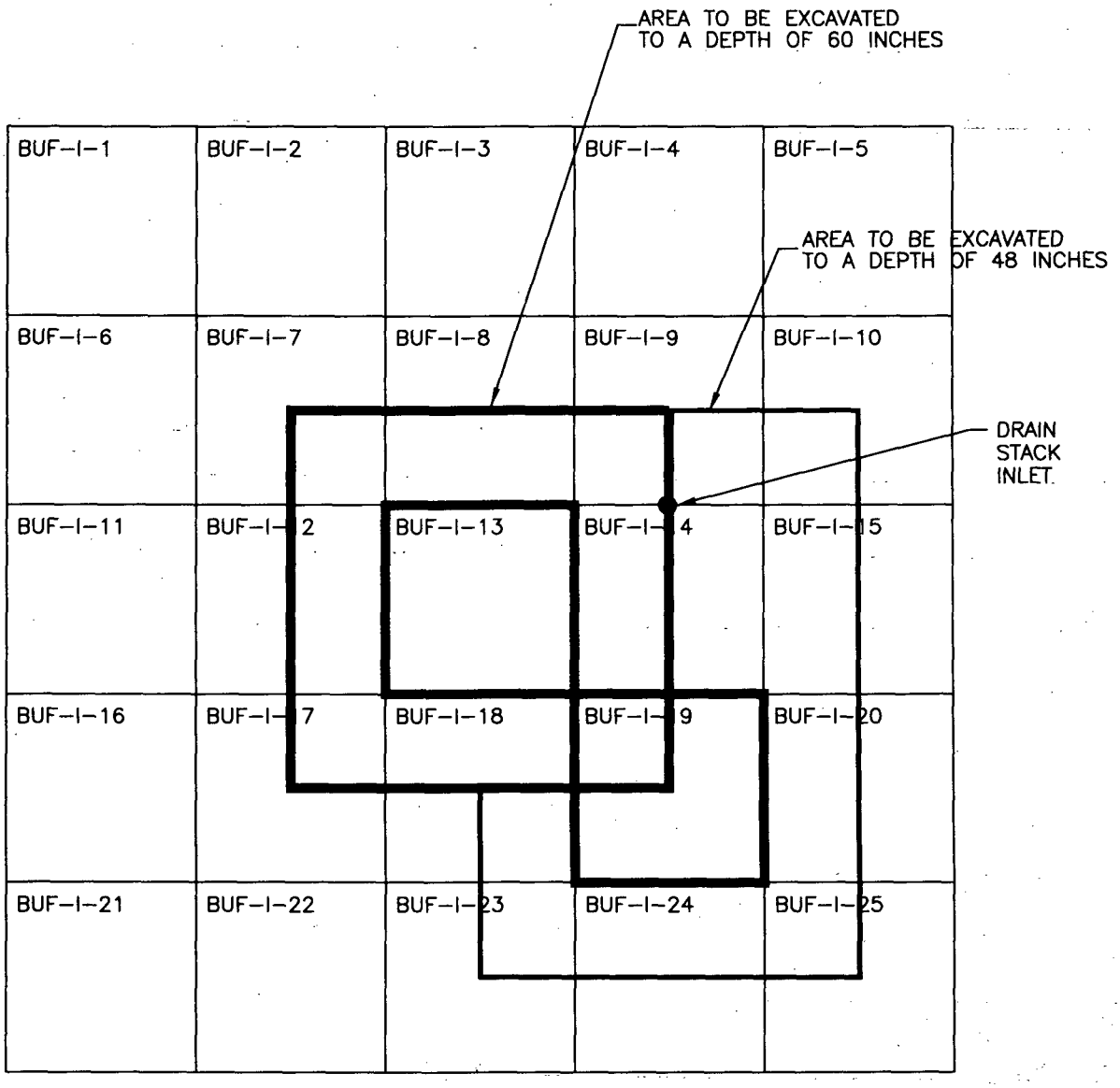
N

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

R1 TKW 01-31-01

AIR RECEIVER DISCHARGE AREA GRID
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr:	AJP	Terracon	Project No.	50007055
Designed By:	VEP		Scale:	NOT TO SCALE
Checked By:	JRR	13910 WEST 96th TERRACE LENEXA, KANSAS 66215	Date:	01-04-01
Approved By:	JRR		Drawn By:	TKW
File Name:	FIGURE4.DWG		Figure No.	4



LEGEND

ND NOT DETECTED

GRIDS EXHIBITING TOTAL PCB >25 mg/kg

GRIDS EXHIBITING TOTAL PCB >10 mg/kg & <25mg/kg

BUF-I-14 = GRID ID

BUFFALO COMPRESSOR STATION
NE 1/4, NE 1/4, SEC.1, T 27N, R 23 W
HARPER COUNTY, OKLAHOMA

000114

N

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

R1 2-23-01 DBN

IMPOUNDMENT AREA GRID – PCB RESULTS
BUFFALO COMPRESSOR STATION
WILLIAMS GAS PIPELINE CENTRAL, INC.
BUFFALO, OKLAHOMA

Project Mngr: AJP	Terracon	Project No.	50007055
Designed By: VEP		Scale:	1"=20'
Checked By: JRR	13910 WEST 96th TERRACE LENEXA, KANSAS 66215	Date:	11-04-00
Approved By: JRR		Drawn By:	TKW
File Name:	FIGURE_5.DWG	Figure No.	5

APPENDIX B:

Tables

Table 1: PCB Analytical Results

Buffalo Compressor Station

Williams Gas Pipelines Central, Inc

GRID & SAMPLE ID	Date(s) Sampled	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	UNITS
Impoundment Area Soil Samples									
BUF-I-1-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-1-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-1-C	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-1-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-2-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-2-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-2-C	11/30/00	<18	<18	<18	<18	<18	22	<18	ug/kg
BUF-I-2-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-3-A	11/30/00	<17	<17	<17	<17	<17	839	<17	ug/kg
BUF-I-3-B	11/30/00	<18	<18	<18	<18	<18	4800	<18	ug/kg
BUF-I-3-C	11/30/00	<18	<18	<18	<18	<18	1590	<18	ug/kg
BUF-I-3-D	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-4-A	11/30/00	<17	<17	<17	<17	<17	2650	<17	ug/kg
BUF-I-4-B	11/30/00	<18	<18	<18	<18	<18	2030	<18	ug/kg
BUF-I-4-C	11/30/00	<17	<17	<17	<17	<17	80	<17	ug/kg
BUF-I-4-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-5-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-5-B	11/30/00	<20	<20	<20	<20	<20	<20	<20	ug/kg
BUF-I-5-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-5-D	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-6-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-6-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-6-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-6-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-7-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-7-C	11/30/00	<18	<18	<18	<18	<18	4220	<18	ug/kg
BUF-I-7-D	11/30/00	<18	<18	<18	<18	<18	4680	<18	ug/kg
BUF-I-8-B	11/30/00	<17	<17	<17	<17	<17	309	<17	ug/kg
BUF-I-8-C	11/30/00	<18	<18	<18	<18	<18	3780	<18	ug/kg
BUF-I-8-D	11/30/00	<18	<18	<18	<18	<18	5500	<18	ug/kg
BUF-I-9-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-9-C	11/30/00	<17	<17	<17	<17	<17	3060	<17	ug/kg
BUF-I-9-D	11/30/00	<17	<17	<17	<17	<17	2380	<17	ug/kg
BUF-I-10-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-10-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-10-C	11/30/00	<17	<17	<17	<17	<17	21	<17	ug/kg
BUF-I-10-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-11-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-11-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-11-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-11-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-12-B	11/30/00	<18	<18	<18	<18	<18	1810	<18	ug/kg
BUF-I-12-C	11/30/00	<18	<18	<18	<18	<18	4330	<18	ug/kg
BUF-I-12-CD	11/30/00	<18	<18	<18	<18	<18	5850	<18	ug/kg
BUF-I-12-CS	11/30/00	<320	<320	<320	<320	<320	5100	<320	ug/kg
BUF-I-12-D	11/30/00	<17	<17	<17	<17	<17	214	<17	ug/kg
BUF-I-13-B	11/30/00	<18	<18	<18	<18	<18	102	<18	ug/kg

000116

1. Bold results exceed cleanup criteria of 25,000 ug/kg for soil and 10 ug for wipes.

Table 1: PCB Analytical Results

Buffalo Compressor Station

Williams Gas Pipelines Central, Inc

GRID & SAMPLE ID	Date(s) Sampled	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	UNITS
BUF-I-13-BD	11/30/00	<18	<18	<18	<18	<18	73	<18	ug/kg
BUF-I-13-BS	11/30/00	<32	<32	<32	<32	<32	59	<32	ug/kg
BUF-I-13-C	11/30/00	<18	<18	<18	<18	<18	4440	<18	ug/kg
BUF-I-13-CD	11/30/00	<18	<18	<18	<18	<18	**15700**	<18	ug/kg
BUF-I-13-CS	11/30/00	<320	<320	<320	<320	<320	6300	<320	ug/kg
BUF-I-13-D	11/30/00	<18	<18	<18	<18	<18	5660	<18	ug/kg
BUF-I-13-DD	11/30/00	<18	<18	<18	<18	<18	993	<18	ug/kg
BUF-I-13-DS	11/30/00	<320	<320	<320	<320	<320	920	<320	ug/kg
BUF-I-14-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-14-BD	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-14-BS	11/30/00	<31	<31	<31	<31	<31	<31	<31	ug/kg
BUF-I-14-C	11/30/00	<18	<18	<18	<18	<18	4650	<18	ug/kg
BUF-I-14-CD	11/30/00	<18	<18	<18	<18	<18	560	<18	ug/kg
BUF-I-14-CS	11/30/00	<320	<320	<320	<320	<320	4200	<320	ug/kg
BUF-I-14-D	11/30/00	<18	<18	<18	<18	<18	2480	<18	ug/kg
BUF-I-14-DD	11/30/00	<18	<18	<18	<18	<18	6170	<18	ug/kg
BUF-I-14-DS	11/30/00	<320	<320	<320	<320	<320	3000	<320	ug/kg
BUF-I-15-A	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-15-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-15-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-15-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-16-A	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-16-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-16-C	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-16-D	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-17-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-17-C	11/30/00	<18	<18	<18	<18	<18	1110	<18	ug/kg
BUF-I-17-D	11/30/00	<17	<17	<17	<17	<17	714	<17	ug/kg
BUF-I-18-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-18-C	11/30/00	<18	<18	<18	<18	<18	2390	<18	ug/kg
BUF-I-18-D	11/30/00	<18	<18	<18	<18	<18	962	<18	ug/kg
BUF-I-19-B	11/30/00	<18	<18	<18	<18	<18	**25300**	<18	ug/kg
BUF-I-19-C	11/30/00	<18	<18	<18	<18	<18	3820	<18	ug/kg
BUF-I-19-D	11/30/00	<18	<18	<18	<18	<18	2290	<18	ug/kg
BUF-I-20-A	11/30/00	<18	<18	<18	<18	<18	61	<18	ug/kg
BUF-I-20-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-20-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-20-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-21-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-21-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-21-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-21-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-22-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-22-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-22-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-22-D	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-23-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-23-B	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-23-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg

000117

1. Bold results exceed cleanup criteria of 25,000 ug/kg for soil and 10 ug for wipes.

Table 1: PCB Analytical Results

Buffalo Compressor Station

Williams Gas Pipelines Central, Inc

GRID & SAMPLE ID	Date(s) Sampled	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	UNITS
BUF-I-23-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-24-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-24-B	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-24-C	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-24-D	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-25-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-I-25-B	11/30/00	<19	<19	<19	<19	<19	<19	<19	ug/kg
BUF-I-25-C	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
BUF-I-25-D	11/30/00	<17	<17	<17	<17	<17	<17	<17	ug/kg
Air Receiver Area Soil Samples									
BUF-AR-1-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-AR-2-A	11/30/00	<18	<18	<18	<18	<18	630	<18	ug/kg
BUF-AR-3-A	11/30/00	<19	<19	<19	<19	<19	48	<19	ug/kg
BUF-AR-4-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-AR-5-A	11/30/00	<18	<18	<18	<18	<18	6980	<18	ug/kg
BUF-AR-5-AD	11/30/00	<18	<18	<18	<18	<18	5470	<18	ug/kg
BUF-AR-5-AS	11/30/00	<320	<320	<320	<320	<320	1000	<320	ug/kg
BUF-AR-6-A	11/30/00	<18	<18	<18	<18	<18	42	<18	ug/kg
BUF-AR-7-A	11/30/00	<18	<18	<18	<18	<18	54	<18	ug/kg
BUF-AR-8-A	11/30/00	<18	<18	<18	<18	<18	<18	<18	ug/kg
BUF-AR-9-A	11/30/00	<20	<20	<20	<20	<20	<20	<20	ug/kg
Impoundment Area Wipe Samples									
BUF-I-WP-1	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/100
BUF-I-WP-2	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/100
BUF-I-WP-3	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/100
Main Compressor Building Wipe Samples									
BUF-AR-WP-1	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	8.82	<0.5	ug/100
BUF-AR-WP-2	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/100
BUF-AR-WP-3	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	0.67	<0.5	ug/100
BUF-AR-WP-4	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/100
BUF-AR-WP-5	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	0.99	<0.5	ug/100
BUF-AR-WP-6	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**19.60**	<0.5	ug/100
BUF-AR-WP-7	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/100
BUF-AR-WP-8	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**113**	<0.5	ug/100
BUF-AR-WP-8R	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**254**	<0.5	ug/100
BUF-AR-WP-8S	11/30/00	<2	<2	<2	<2	<2	**67**	<2	ug/100
BUF-AR-WP-9	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**16.6**	<0.5	ug/100
BUF-AR-WP-10	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**4910**	<0.5	ug/100
BUF-AR-WP-11	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**136**	<0.5	ug/100
BUF-AR-WP-12	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	<0.5	ug/100
BUF-AR-WP-13	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	**139**	<0.5	ug/100
Air Receiver Basement Water Grab Sample									
BUF-AB-1	11/30/00	<.5	<.5	<.5	<.5	<.5	2.28	<.5	ug/L
Equipment Rinsates									
BUF-I-R-1	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L
BUF-I-R-2	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L
BUF-I-R-3	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L
BUF-I-R-4	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L

1. Bold results exceed cleanup criteria of 25,000 ug/kg for soil and 10 ug for wipes.

000118

Table 1: PCB Analytical Results

Buffalo Compressor Station

Williams Gas Pipelines Central, Inc

GRID & SAMPLE ID	Date(s) Sampled	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	UNITS
BUF-I-R-5	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L
BUF-AR-R1	11/30/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L

000119

1. Bold results exceed cleanup criteria of 25,000 ug/kg for soil and 10 ug for wipes.

TABLE 2
BUFFALO COMPRESSOR STATION
RCRA METAL ANALYSIS
SOILS (November 2000)
Concentrations in milligrams/kilogram (mg/kg) or parts per million (ppm)

Analyte	Regulatory Limits (see notes)	BUF-1-14 (C)
Arsenic	50 [1]	1.8
Barium	2000 [2]	145
Cadmium	38 [1]	0.28
Chromium	2077 [1]	7.9
Lead	500 [1]	32
Mercury	4 [2]	1.715
Selenium	20 [2]	<0.5
Silver	100 [2]	<0.5

Notes:
1. Cleanup Standard Imposed For Other WGPC Site Consent Orders.
2. Modified TCLP Limits (RCRA 20 Rule).
3. Bold and Shaded Results Exceed Regulatory Limit.

TA 3
BUFFALO COMP SSOR STATION
SVOC ANALYSIS
SOILS November 2000)
Concentrations in milligrams/kilogram (ug/kg) or parts per million (ppb)

Analyte	Comparative Regulatory Criteria[1]	BUF-I-8-C	BUF-I-9-C	BUF-I-10-B	BUF-I-13-C	BUF-I-14-C	BUF-I-16-B	BUF-I-18-C	BUF-I-19-C	BUF-I-20-B
Date Sampled		11/30/2000	11/30/2000	11/30/2000	11/30/2000	11/30/2000	11/30/2000	11/30/2000	11/30/2000	11/30/2000
Acenaphthene	1,647,000[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Acenaphthylene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Anthracene	8,233,000[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Benzidine	-	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
Benzo(a)Anthracene	990[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Benzo(b)Fluoranthene	990[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Benzo(k)Fluoranthene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Benzoic Acid	-	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
Benzo(g,h,I)Perylene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Benzo(a)Pyrene	990[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Benzyl Alcohol	-	<1200	<670	<710	<1200	<12000	<720	<680	<690	<730
bis(2-Chloroethoxy)Methane	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
bis(2-Chloroethyl)Ether	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
bis(2-Chloroisopropyl)Ether	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
bis(2-Ethylhexyl)Phthalate	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
4-Bromophenyl-phenylether	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Butylbenzylphthalate	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
4-Chloroaniline	-	<1200	<670	<710	<1200	<12000	<720	<680	<690	<730
4-Chloro-3-Methylphenol	-	<1200	<670	<710	<1200	<12000	<720	<680	<690	<730
2-Chloronaphthalene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2-Chlorophenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
4-Chlorophenyl-phenylether	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Chrysene	990[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Dibenz(a,h)Anthracene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Dibenzofuran	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
1,2-Dichlorobenzene	-	**2770**	<340	<350	<600	<5900	<360	<340	<350	<370
1,3-Dichlorobenzene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
1,4-Dichlorobenzene	150,000	**748**	<340	<350	<600	<5900	<360	<340	<350	<370
3,3'-Dichlorobenzidine	-	<1200	<670	<710	<1200	<12000	<720	<680	<690	<730
2,4-Dichlorophenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Diethylphthalate	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2,4-Dimetheylphenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370

Notes:
1. Modified TCLP Limits (RCRA 20 Rule).
2. Cleanup Standard Imposed For Other Williams' Site Consent Orders.

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000121

TA[illegible] 3
BUFFALO COM[illegible]SOR STATION
SVOC ANALYSIS
SOILS November 2000)
Concentrations in milligrams/kilogram (ug/kg) or parts per million (ppb)

Dimethyl Phthalate	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Isophorone	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Di-n-Butylphthalate	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
4,6-Dinitro-2-Methylphenol	-	<1200	<670	<710	<1200	<12000	<720	<680	<690	<730
2,4-Dinitrophenol	-	<1200	<670	<710	<1200	<12000	<720	<680	<690	<730
2,4-Dinitrotoluene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2,6-Dinitrotuluene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Di-n-Octyl Phthalate	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
1,2-Diphenyl Hydrasine	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Fluoranthene	1,098,000[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Fluorene	1,098,000[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Hexachlorobenzene	2,600	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Hexachlorobutadiene	10,000	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Hexachlorocyclopentadiene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Hexachloroethane	60,000	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Indeno1,2,3-cd)Pyrene	990[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2-Methylnaphthalene	-	<620	<340	<350	<600	**6770**	<360	<340	<350	<370
2-Methylphenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
3,4-Methylphenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Naphthalene	1,098,000[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2-Nitroaniline	-	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
3-Nitroaniline	-	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
4-Nitroaniline	-	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
Nitrobenzene	40,000	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2-Nitrophenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
4-Nitrophenol	-	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
N-Nitroso-Di-n-Propylamine	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
N-Nitrosodiphenylamine (1)	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
N-Nitrosodimethylamine	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Pentachlorophenol	2,000,000	<3100	<1700	<1800	<3000	<29000	<1800	<1700	<1700	<1800
Phenanthrene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Phenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
Pyrene	824,000[2]	<620	<340	<350	<600	<5900	<360	<340	<350	<370
1,2,4-Trichlorobenzene	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2,4,5-Trichlorophenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370
2,4,6-Trichlorophenol	-	<620	<340	<350	<600	<5900	<360	<340	<350	<370

Notes:
1. Modified TCLP Limits (RCRA 20 Rule).
2. Cleanup Standard Imposed For Other Williams' Site Consent Orders.

000122

APPENDIX C:

Standard Operating Procedures

Standard Operating Procedures
Macro-core Sample Recovery

Step 1: Advance macro-core soil sampler the specified distance or to the desired depth and withdraw sampler from the subsurface.

Step 2: Remove acetate liner encapsulating soil sample from sampler.

Step 3: Observe acetate liner and soil for signs of sample movement within the liner.

Signs to look for:

- Soil core extruding for sampler shoe.
- No soil in sampler shoe.
- No soil in bottom of acetate liner.
- Top of liner appears smeared from soil core sliding out of liner.
- Recovery is less than distance of sampler advancement.

Step 4: Measure the sample recovery and compare to the distance sampler was advanced. If sample recovery is 95% or more of the push distance, then proceed with collecting samples from the desired horizons.

Note: If there is no evidence of sample movement within liner, and the recovery is less than 95%, then the sample may have been compressed within the acetate liner or within the borehole. Given the design of the macro-core sampler and the type of soil encountered, a determination as to whether the soil has been compressed must be made.

Step 5: Determine if recovery is sufficient for sampling objectives by answering the following questions:

1. Is there enough soil volume for the specified analysis?
2. Can a reasonable estimation of sample horizons be specified?

If the answer to either of these questions is "no" then the sampler must be re-advanced.

Step 6: When soils are compressed within the acetate liner, it is necessary to quantitatively determine the appropriate sample horizons. Observations of the sample within the liner must be made to determine the potential "zone of compression". The macro-core sampler is designed so that the soil sample diameter should be less than the diameter of the acetate liner.

The following scenarios describe procedures for determining the appropriate sample horizon when the soil sample is compressed within the acetate liner:

Scenario 1: The macro-core sampler is advanced to 30" with desired sample horizons of 0-6", 12-18" and 24-30". The sample recovery measures only 25" when withdrawn from the subsurface and there is no evidence of sample loss. The soil core appears to touch or be tight against the acetate liner throughout the entire length of the sample (It is assumed that the sample is compressed equally throughout the sampler).

Divide the sample into five equal parts measuring 5" each. Collect sample from 0-5" as the 0-6" sample and discard the 5" to 10" horizon; collect the 10-15" horizon as the 12-18" horizon and discard the 15" to 20" horizon; and collect the 20-25" horizon as the 24" to 30" sample.

Scenario 2: The macro-core sampler is advanced to 30" with desired sampling horizons of 0-6", 12-18" and 24-30". The sample recovery measures only 25" when withdrawn from the subsurface and there is no evidence of sample loss. The soil core appears to touch the acetate liner from 6" to 25" (It is assumed that the "zone of compression" is from 6" to 25").

Collect the 0 to 6" sample and divide the remaining 19" (6" to 25" of sample) into four equal parts. Discard the 6" to 10.75" horizon and collect the 10.75" to 15.5" horizon as the 12-18" sample; discard the 15.5" to 20.25" horizon and collect a sample from the 20.25" to 25" horizon as the 24-30" sample.

In determining the "zone of compression" for numerous samples at a given site, it may be useful to take into account the following:

- Soil properties
- Total hole depth
- Surface cover
- Distance sampler is advanced
- Moisture content
- Subsurface anomalies observed within acetate liner

Step 7: Place soil from each horizon into a stainless steel bowl or disposable container and thoroughly mix. Use a stainless steel spoon where soils are difficult to mix by hand.

Step 8: Place soil into the sample container in a manner that will minimize voids and seal container with appropriate lid.

Step 9: Label each container with the following:
Date, Time, Sample Identification, Project Number, Site Name, Sampler, & Requested Analysis

Step 10: Place in cooler on ice in order to maintain temperatures close to 4 degrees Celsius.

APPENDIX D:

Photo Log

Photo #1

Photographer: Tony Poulter

Date: 11/30/00

Direction: West/Southwest facing

Description: Soil sampling in Impoundment area

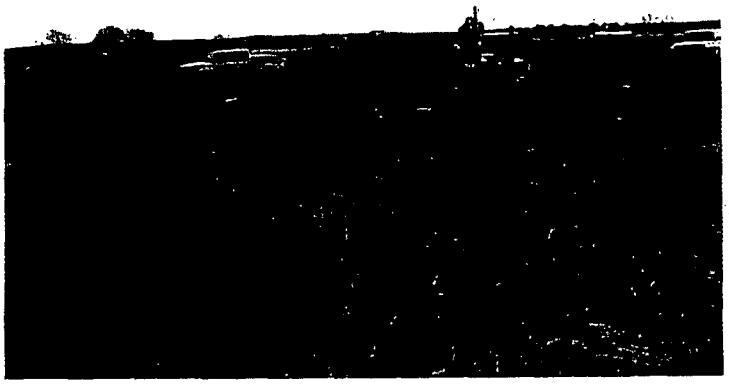


Photo #2

Photographer: Tony Poulter

Date: 11/30/00

Direction: Southwest facing

Description: Soil sampling in impoundment area

Photo #3

Photographer: Tony Poulter

Date: 11/30/00

Direction: Southwest facing

Description: Energy Dissipation Stack

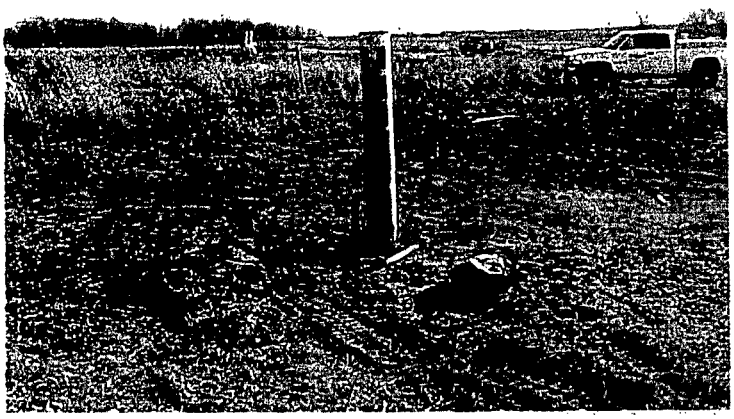


Photo #4

Photographer: Mark Sullivan

Date: 11/30/00

Direction: West facing

Description: Pipes leaving the Auxiliary Building

Photo #5

Photographer: Mark Sullivan

Date: 11/30/00

Direction: North facing

Description: Various lines in the air receiver area

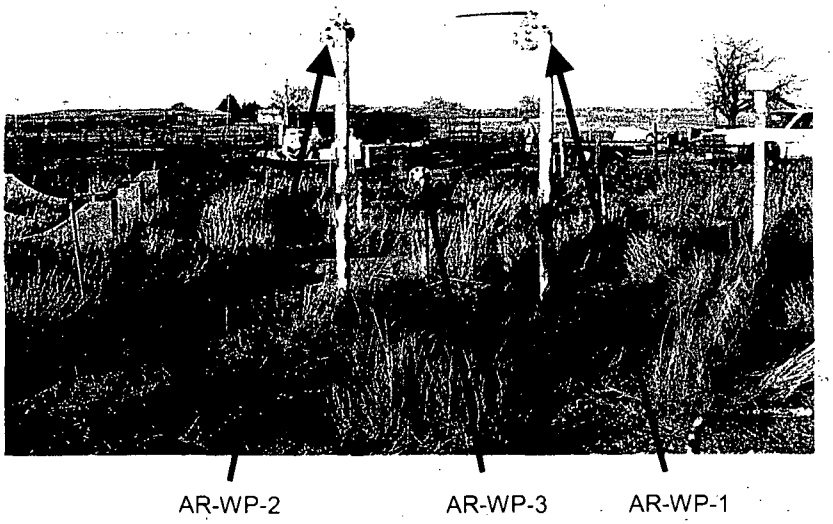


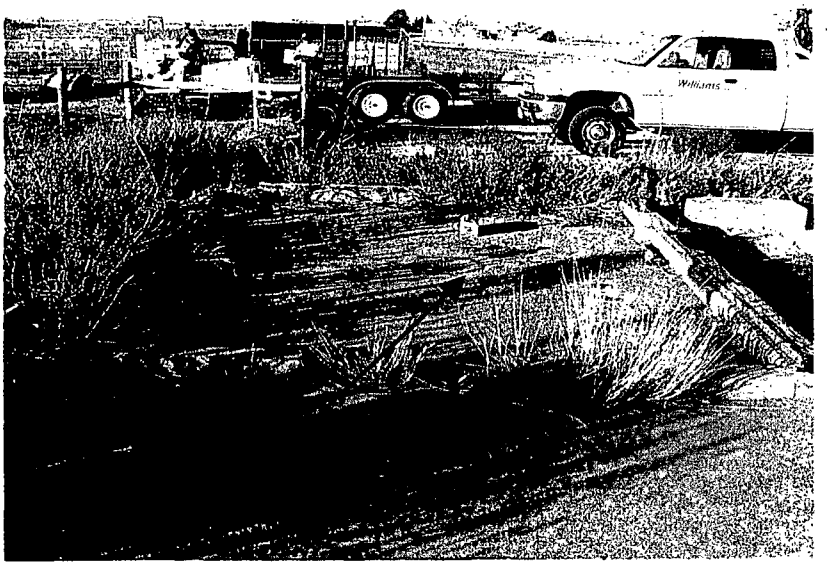
Photo #6

Photographer: Mark Sullivan

Date: 11/30/00

Direction: North facing

Description: Floor drain in northwest corner of the Auxiliary Building



APPENDIX E:

Laboratory Reports

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

BORATORY REPORT: REFERENCE #: 0012074

NT TERRACON ENVIRONMENTAL
: 13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER
OJECT:WGPSC-BUFFALO

DATE REPORTED: 01/31/01
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

ple ID: BUFF-I-WP-1 Sample Matrix: WIPES
llection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PACKAGE		COMPLETE	STD UN		12/15/00DN	
3'S	SW846 8082					
CB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
C 260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
B UR)	-	116	150	50		12/04/00

ple ID: BUFF-I-WP-2 Sample Matrix: WIPE
llection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
3'S	SW846 8082					
CB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
B (SUR)	-	110	150	50		12/04/00

ple ID: BUFF-I-WP-3 Sample Matrix: WIPE
llection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
C 16	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

mple ID: BUFF-I-WP-3 Sample Matrix: WIPE
l tion Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB (SUR)	-	112	150	50		12/04/00

mple ID: BUFF-AR-WP-1 Sample Matrix: WIPE
llection Date: 11/30/00 16:16:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	8.82	UG	0.50	12/04/00JSS	12/04/00
P 1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
C. SUR)	-	109	150	50		12/04/00

mple ID: BUFF-AR-WP-2 Sample Matrix: WIPE
llection Date: 11/30/00 16:18:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB (SUR)	-	160 Q	150	50		12/04/00

nple ID: BUFF-AR-WP-3 Sample Matrix: WIPE
llection Date: 11/30/00 16:14:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
P 016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

ple ID: BUFF-AR-WP-3 Sample Matrix: WIPE
ion Date: 11/30/00 16:14:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1254	11097-69-1	0.672	UG	0.50	12/04/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
B (SUR)	-	154 Q	150	50		12/04/00

ple ID: BUFF-AR-WP-4 Sample Matrix: WIPE
lection Date: 11/30/00 16:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
CB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
C 260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
B JR)	-	160 Q	150	50		12/04/00

ple ID: BUFF-AR-WP-5 Sample Matrix: WIPE
lection Date: 11/30/00 16:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
CB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1254	11097-69-1	0.991	UG	0.50	12/04/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
B (SUR)	-	166 Q	150	50		12/04/00

ple ID: BUFF-AR-WP-6 Sample Matrix: WIPE
lection Date: 11/30/00 15:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
C 16	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

nple ID: BUFF-AR-WP-6 Sample Matrix: WIPE
l[illegible]ion Date: 11/30/00 15:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	19.6	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB (SUR)	-	167 Q	150	50		12/04/00

nple ID: BUFF-AR-WP-7 Sample Matrix: WIPE
llection Date: 11/30/00 16:12:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PC[illegible]260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB [illegible]UR)	-	122	150	50		12/04/00

nple ID: BUFF-AR-WP-8 Sample Matrix: WIPE
llection Date: 11/30/00 16:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	113	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB (SUR)	-	139	150	50		12/04/00

nple ID: BUFF-AR-WP-9 Sample Matrix: WIPE
llection Date: 11/30/00 16:02:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

mple ID: BUFF-AR-WP-9 Sample Matrix: WIPE
? tion Date: 11/30/00 16:02:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	16.6	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB (SUR)	-	133	150	50		12/04/00

mple ID: BUFF-AR-WP-10 Sample Matrix: WIPE
llection Date: 11/30/00 16:04:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
3'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	4910 D	UG	0.50	12/05/00JSS	12/04/00
P 1260	11096-82-5	ND	UG	0.50	12/05/00JSS	12/04/00
C SUR)	-	110	150	50		12/04/00

mple ID: BUFF-AR-WP-11 Sample Matrix: WIPE
llection Date: 11/30/00 16:06:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
3'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	136	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB (SUR)	-	67	150	50		12/04/00

mple ID: BUFF-AR-WP-12 Sample Matrix: WIPE
llection Date: 11/30/00 16:08:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
3'	SW846 8082					
P .016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

ıple ID: BUFF-AR-WP-12 Sample Matrix: WIPE
.l ion Date: 11/30/00 16:08:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
CB-1254	11097-69-1	120	UG	0.50	12/04/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
B (SUR)	-	106	150	50		12/04/00

ıple ID: BUFF-AR-WP-13 Sample Matrix: WIPE
.lection Date: 11/30/00 16:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1254	11097-69-1	139 D	UG	0.50	12/05/00JSS	12/04/00
CB 1260	11096-82-5	ND	UG	0.50	12/05/00JSS	12/04/00
B R)	-	119	150	50		12/04/00

ple ID: BUFF-AR-WP-8R Sample Matrix: WIPE
lection Date: 11/30/00 16:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG	0.50	12/05/00JSS	12/04/00
CB-1254	11097-69-1	254 D	UG	0.50	12/05/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG	0.50	12/05/00JSS	12/04/00
B (SUR)	-	91	150	50		12/04/00

ple ID: BUFF-I-R1 Sample Matrix: WATER
lection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
C 16	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00

ple ID: BUFF-I-R1 Sample Matrix: WATER
1 ion Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
B (SUR)	-	35 Q	150	50		12/06/00

ple ID: BUFF-I-R2 Sample Matrix: WATER
lection Date: 11/30/00 11:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
CF 260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
B R)	-	45 Q	150	50		12/06/00

ple ID: BUFF-I-R3 Sample Matrix: WATER
lection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
B (SUR)	-	20 Q	150	50		12/06/00

ple ID: BUFF-I-R4 Sample Matrix: WATER
lection Date: 11/30/00 14:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
C 16	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00

ple ID: BUFF-I-R4 Sample Matrix: WATER
lection Date: 11/30/00 14:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
B (SUR)	-	37 Q	150	50		12/06/00

ple ID: BUFF-I-R5 Sample Matrix: WATER
lection Date: 11/30/00 14:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
E JR)	-	34 Q	150	50		12/06/00

ple ID: BUFF-AR-R1 Sample Matrix: WATER
lection Date: 11/30/00 15:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
B (SUR)	-	26 Q	150	50		12/06/00

ple ID: BUFF-AR-R2 Sample Matrix: WATER
lection Date: 11/30/00 16:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	B120600B			DLB	12/06/00

nple ID: BUFF-AB-BASEMENT WATER Sample Matrix: WATER
ll tion Date: 11/30/00 16:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
3'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
CB-1254	11097-69-1	2.28	UG/L	0.50	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
B (SUR)	-	29 Q	150	50		12/06/00

NONE DETECTED
=PRACTICAL QUANTITATION LIMIT
STANDARD UNITS
CKGROUND CONTAMINATION
=SURROGATE
UTSIDE LIMITS
ETECTED IN METHOD BLANK

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

7 -AMENDED TO CORRECT PCB WIPE RESULTS FOR 4A,6A,7A,8A DN

0012004

000008

Terracon
...96th Terrace
...Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORAT .Y ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK

PROJECT NUMBER: 50007055

SAMPLER (SIGNATURE): Jason K. Franks

RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff. I - R1	11/30/00	1100	~~Soil~~ WA		X	1	X	OK TO RUN
Buff. I - R2		1130	~~Soil~~ WA		X	1	X	
Buff. I - R3		1200	~~Soil~~ WA		X	1	X	
Buff. I - R4		1400	~~Soil~~ WA		X	1	X	
Buff. I - R5		1415	~~Soil~~ WA		X	1	X	
Buff. AR + R1		1530	~~Soil~~ WA		X	1	X	
Buff - AR - R2		1605	Soil WA		X	1	X	HOLD
Buff - AB - Basement Water		1600	~~Soil~~ WA		X	1	X	OK TO RUN
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express

SHIPPING NO.: 1127-5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER

___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000139

Terracon
[illegible] 98th Terrace
[illegible], Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQ

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. [illegible]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-AR-WP-13	11/30/00	1610	Soil		X	1	X	OK TO RUN
Buff-AR-WP-8 DR	11/30/00	1630	Soil		X	1	X	↓
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour — STANDARD 72 hour TAT — OTHER
PROVIDE VERBAL PRELIMINARY RESULTS — FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [illegible] 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000140

000009

Terracon
[illegible] 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Joan Lafrank
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-WP-1	11/30/00	1025	Soil		X	1	X	OK TO RUN
Buff-I-WP-2		1030	Soil		X	1	X	
Buff-I-WP-3		1035	Soil		X	1	X	
Buff-AR-WP-1		1616	Soil		X	1	X	
Buff-AR-WP-2		1618	Soil		X	1	X	
Buff-AR-WP-3		1614	Soil		X	1	X	
Buff-AR-WP-4		1620	Soil		X	1	X	
Buff-AR-WP-5		1625	Soil		X	1	X	
Buff-AR-WP-6		1500	Soil		X	1	X	
Buff-AR-WP-7		1612	Soil		X	1	X	
Buff-AR-WP-8		1600	Soil		X	1	X	
Buff-AR-WP-9		1602	Soil		X	1	X	
Buff-AR-WP-10		1604	Soil		X	1	X	
Buff-AR-WP-11		1606	Soil		X	1	X	
Buff-AR-WP-12		1608	Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [illegible] 12/2/00	SIGNATURE:	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000010

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Quality Cor ' Report

TERRACON

0012074

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/06/00		water	ug/L
PCB-1221	8082		GC/ECD	12/06/00		water	ug/L
PCB-1232	8082		GC/ECD	12/06/00		water	ug/L
PCB-1242	8082		GC/ECD	12/06/00		water	ug/L
PCB-1248	8082		GC/ECD	12/06/00		water	ug/L
PCB-1254	8082		GC/ECD	12/06/00		water	ug/L
PCB-1260	8082		GC/ECD	12/06/00		water	ug/L
DCB (Surr)	8082		GC/ECD	12/06/00		water	ug/L
PCB-1016	8082		GC/ECD	12/04/00		wipe	ug
PCB-1221	8082		GC/ECD	12/04/00		wipe	ug
PCB-1232	8082		GC/ECD	12/04/00		wipe	ug
PCB-1242	8082		GC/ECD	12/04/00		wipe	ug
PCB-1248	8082		GC/ECD	12/04/00		wipe	ug
PCB-1254	8082		GC/ECD	12/04/00		wipe	ug
PCB-1260	8082		GC/ECD	12/04/00		wipe	ug
DCB (Surr)	8082		GC/ECD	12/04/00		wipe	ug

000142

Quality Control Report

TERRACON

0012074

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	LCS / LCS Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
PCB-1016	ND													
PCB-1221	ND													
PCB-1232	ND													
PCB-1242	ND													
PCB-1248	ND													
PCB-1254	ND				ND	2.00	1.03	52	1.14	57	9	1.07	2.00	54
PCB-1260	ND													
DCB (Surr)	0.13				0.13	0.20	0.16	78	0.16	80		0.18	0.20	88
PCB-1016	ND													
PCB-1221	ND													
PCB-1232	ND													
PCB-1242	ND													
PCB-1248	ND													
PCB-1254	ND				ND	2.00	1.51	76	1.42	71	7			
PCB-1260	ND													
DCB (Surr)	0.36				0.36	0.20	0.34	171 *	0.33	166 *				

000143

Quality Ce l Report

TERRACON

0012074

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000144

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate QC Data Duplicate	Duplicate QC Data RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
Total Solids	ND	86.4	86.3	0.1								316	302	105

000145

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials:

000146

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

BORATORY REPORT: REFERENCE #: 0012075

NT TERRACON ENVIRONMENTAL
: 13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED:
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #: 50007055

OJECT:WGPSC-BUFFALO OK PART 2

mple ID: BUFF-AR-1A Sample Matrix: SOIL
llection Date: 11/30/00 03:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
P PACKAGE			STD UN			
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/04/00JSS	12/04/00
1260	11096-82-5	ND	UG/KG	18	12/04/00JSS	12/04/00
CB (SUR)	-	94	150	50		12/04/00
TAL SOLIDS	EPA 160.3	94.68	%	0.01	12/04/00KDH	

mple ID: BUFF-AR-2A Sample Matrix: SOIL
llection Date: 11/30/00 03:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	630	UG/KG	18	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/04/00JSS	12/04/00
CB (SUR)	-	82	150	50		12/04/00
TAL SOLIDS	EPA 160.3	95.36	%	0.01	12/04/00KDH	

000147

pl ID: BUFF-AR-3A Sample Matrix: SOIL
l on Date: 11/30/00 02:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	19	12/05/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG/KG	19	12/05/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG/KG	19	12/05/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG/KG	19	12/05/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG/KG	19	12/05/00JSS	12/04/00
CB-1254	11097-69-1	48	UG/KG	19	12/05/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG/KG	19	12/05/00JSS	12/04/00
B (SUR)	-	104	150	50		12/04/00
AL SOLIDS	EPA 160.3	88.87	%	0.01	12/04/00KDH	

ple ID: BUFF-AR-4A Sample Matrix: SOIL
lection Date: 11/30/00 03:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
C 42	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1254	11097-69-1	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
B (SUR)	-	118	150	50		12/04/00
AL SOLIDS	EPA 160.3	94.17	%	0.01	12/04/00KDH	

ple ID: BUFF-AR-5A Sample Matrix: SOIL
lection Date: 11/30/00 03:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
CB-1254	11097-69-1	6980D	UG/KG	18	12/05/00JSS	12/04/00
CB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
B (SUR)	-	86	150	50		12/04/00
AL SOLIDS	EPA 160.3	94.23	%	0.01	12/04/00KDH	

le ID: BUFF-AR-6A Sample Matrix: SOIL
e n Date: 11/30/00 02:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
B-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1254	11097-69-1	42	UG/KG	18	12/05/00JSS	12/04/00
B-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
(SUR)	-	101	150	50		12/04/00
L SOLIDS	EPA 160.3	93.11	%	0.01	12/04/00KDH	

le ID: BUFF-AR-7A Sample Matrix: SOIL
ection Date: 11/30/00 03:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
B-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
42	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1254	11097-69-1	54	UG/KG	18	12/05/00JSS	12/04/00
B-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
(SUR)	-	122	150	50		12/04/00
L SOLIDS	EPA 160.3	94.36	%	0.01	12/04/00KDH	

le ID: BUFF-AR-8A Sample Matrix: SOIL
lection Date: 11/30/00 03:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
B-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1254	11097-69-1	ND	UG/KG	18	12/05/00JSS	12/04/00
B-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
(SUR)	-	102	150	50		12/04/00
L SOLIDS	EPA 160.3	93.74	%	0.01	12/04/00KDH	

000149

000004

ple ID: BUFF-AR-9A Sample Matrix: SOIL
ion Date: 11/30/00 03:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	20	12/05/00JSS	12/05/00
CB-1221	11104-28-2	ND	UG/KG	20	12/05/00JSS	12/05/00
CB-1232	11141-16-5	ND	UG/KG	20	12/05/00JSS	12/05/00
CB-1242	53469-21-9	ND	UG/KG	20	12/05/00JSS	12/05/00
CB-1248	12672-29-6	ND	UG/KG	20	12/05/00JSS	12/05/00
CB-1254	11097-69-1	ND	UG/KG	20	12/05/00JSS	12/05/00
CB-1260	11096-82-5	ND	UG/KG	20	12/05/00JSS	12/05/00
3 (SUR)	-	126	150	50		12/05/00
AL SOLIDS	EPA 160.3	87.85	%	0.01	12/04/00KDH	

ple ID: BUFF-AR-1B Sample Matrix: SOIL
lection Date: 11/30/00 03:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-AR-2B Sample Matrix: SOIL
ion Date: 11/30/00 03:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-AR-3B Sample Matrix: SOIL
lection Date: 11/30/00 02:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-AR-4B Sample Matrix: SOIL
lection Date: 11/30/00 03:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

000150

le ID: BUFF-AR-5B Sample Matrix: SOIL
ec on Date: 11/30/00 03:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-6B Sample Matrix: SOIL
ection Date: 11/30/00 02:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-7B Sample Matrix: SOIL
ection Date: 11/30/00 03:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-8B Sample Matrix: SOIL
e on Date: 11/30/00 03:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-9B Sample Matrix: SOIL
ection Date: 11/30/00 03:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-1C Sample Matrix: SOIL
ection Date: 11/30/00 03:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

000151

le ID: BUFF-AR-2C Sample Matrix: SOIL
e n Date: 11/30/00 03:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-3C Sample Matrix: SOIL
ection Date: 11/30/00 02:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-4C Sample Matrix: SOIL
ection Date: 11/30/00 03:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-5C Sample Matrix: SOIL
ection Date: 11/30/00 03:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-6C Sample Matrix: SOIL
ection Date: 11/30/00 02:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-7C Sample Matrix: SOIL
ection Date: 11/30/00 03:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

000152

le ID: BUFF-AR-8C Sample Matrix: SOIL
ec n Date: 11/30/00 03:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

le ID: BUFF-AR-9C Sample Matrix: SOIL
ection Date: 11/30/00 03:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
ACTION	NONE	DONE	NONE		DLB	12/14/00

ONE DETECTED
PRACTICAL QUANTITATION LIMIT
TANDARD UNITS
KGROUND CONTAMINATION
SURROGATE
TSIDE LIMITS
TECTED IN METHOD BLANK

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

000153

Terracon
13910 West 56th Terrace
Lenexa, Kansas 66216
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGP80 Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)

RESULTS ATTENTION TO:
John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE					COOL	# of Containers	PCB's by EPA 8082							REMARKS
BUFF-AR-A1 (B)	11/30/00	320	Soil						X	1	X							HOLD
BUFF-AR-A2 (B)		305	Soil						X	1	X							
BUFF-AR-A3 (B)		250	Soil						X	1	X							
BUFF-AR-A4 (B)		315	Soil						X	1	X							
BUFF-AR-A5 (B)		310	Soil						X	1	X							
BUFF-AR-A6 (B)		255	Soil						X	1	X							
BUFF-AR-A7 (B)		325	Soil						X	1	X							
BUFF-AR-A8 (B)		330	Soil						X	1	X							
BUFF-AR-A9 (B)		335	Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							

SHIPPING VIA:
Federal Express

SHIPPING NO.:
1127-5857-7

PRIORITY:
overnight

LABORATORY PRIORITY
XXX 48-Hour ____ STANDARD 72 hour TAT ____ OTHER
____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Tony Poulter	Dee Robinson 12/2/00 11:40		
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
Terracon			
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000010

000154

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS: Bill to WGPSC - Mark Sullivan

PROJECT NAME: WGPSC Buffalo, OK

PROJECT NUMBER: 50007055

SAMPLER (SIGNATURE):

RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
BUFF-AR-01 (C)	11/30/00	320	Soil		X	1	X	HOLD
BUFF-AR-02 (C)		30[illegible]	Soil		X	1	X	
BUFF-AR-03 (C)		2[illegible]	Soil		X	1	X	
BUFF-AR-04 (C)		31[illegible]	Soil		X	1	X	
BUFF-AR-05 (C)		31[illegible]	Soil		X	1	X	
BUFF-AR-06 (C)		2[illegible]5	Soil		X	1	X	
BUFF-AR-07 (C)		3[illegible]5	Soil		X	1	X	
BUFF-AR-08 (C)		33[illegible]	Soil		X	1	X	
BUFF-AR-09 (C)		335	Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express

SHIPPING NO.: 1127-5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XXX 48 Hour — STANDARD 72 hour TAT — OTHER

PROVIDE VERBAL PRELIMINARY RESULTS — FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME: Tony Poulter	PRINTED NAME: [illegible] 12/4/00	PRINTED NAME	PRINTED NAME: 11:40
FIRM: Terracon	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000011

000155

Quality Control Report

TER...CON

0012075

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/05/00		soil	ug/kg
PCB-1221	8082		GC/ECD	12/05/00		soil	ug/kg
PCB-1232	8082		GC/ECD	12/05/00		soil	ug/kg
PCB-1242	8082		GC/ECD	12/05/00		soil	ug/kg
PCB-1248	8082		GC/ECD	12/05/00		soil	ug/kg
PCB-1254	8082		GC/ECD	12/05/00		soil	ug/kg
PCB-1260	8082		GC/ECD	12/05/00		soil	ug/kg
DCB (Surr)	8082		GC/ECD	12/05/00		soil	ug/kg

000156

Quality Control Report

TERR...ON
0012075

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				ND	66.7	41.3	62	40.8	61	1	35.8	66.7	54
PCB-1260	ND											ND		
DCB (Surr)	6.60				9.62	6.66	8.66	123	9.36	133	8	9.78	6.66	147

000157

CONTINUED IN VOLUME II

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

ADMINISTRATIVE RECORD

REMOVAL ACTION

SITE NAME: **BUFFALO COMPRESSOR STATION**

BUFFALO, HARPER COUNTY, OKLAHOMA

SITE NUMBER: **OK0000605396**

VOLUME II OF III

Internet Address (URL) - http://www.epa.gov/earth1r6/
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

INTRODUCTION

The "Administrative Record" is the collection of documents which form the basis for the U.S. Environmental Protection Agency's (EPA) selection of a response action at a Superfund site. Superfund is the name given to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) which can be found in Title 42 of the U.S. Code (U.S.C.) at Sections 9601 through 9675. Response actions under Superfund can be either "removal action" or "remedial action". This Administrative Record involves a *removal action*. As EPA decides what to do at the site of a release of hazardous substances, EPA compiles documents concerning the site and EPA's decision into an "Administrative Record File." Documents may be added to the "Administrative Record File" from time to time. Once the EPA Regional Administrator or the Regional Administrator's delegate signs the Action Memorandum memorializing the selection of the removal action, the documents which form the basis for the selection of the removal action are known as the "Administrative Record."

The Administrative Record will be available for public review during normal business hours at EPA, Region 6 offices which is located at the address given below, and it will also be available at the Buffalo Public Library, 11 E. Turner Street, Buffalo, Oklahoma 73834. The Administrative Record is treated as a non-circulating reference document. Individuals may photocopy any documents contained in the Administrative Record File, according to the photocopying procedures at the EPA, Region 6 offices and at the repository located near the Site. The Administrative Record will be maintained at the local repository(s) until further notice. EPA may send additional documents to the repository (s) as work progresses at the Site

EPA may hold formal public comment periods at certain stages of the response process. The public is urged to use the formal public comment periods to submit written comments to EPA regarding the removal at the Site. However, EPA welcomes written comments at any time. Please send all comments to:

Removal Administrative Record Coordinator (6SF-R)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

Except as explained below, this index and the record was compiled in accordance with EPA's Final Guidance on Administrative Records for Selecting CERCLA Response Actions, Office of

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Solid Waste and Emergency Response (OSWER) Directive Number 9833.3A-1 (December 3, 1990), and in accordance with Superfund Removal Procedures Public Participation Guidance for On-scene Coordinators: Community Relations and the Administrative Record, OSWER 9360.3-05 (July 1992), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300.

According to OSWER Directive No. 9833.3A-1, Page 37, each Region should maintain a compendium of guidance documents which are frequently used in selecting response actions, and the record located at or near the site of response action should contain an index to the compendium of response selection guidance documents. However, the EPA-headquarters generated compendium of guidance documents has not been updated since March 22, 1991 [see CERCLA Administrative Records: First Update of the Compendium of Documents Used for Selecting CERCLA Response Actions (March 1991)]. Moreover, the EPA, Region 6 Superfund Division Director has decided that developing and maintaining a compendium index in Region 6 would require extensive resources which are better utilized elsewhere in the Division. Accordingly, the Division Director has decided not to maintain an indexed compendium of response-selection guidance documents. Instead, consistent with 40 CFR Sections 300.805 (a) (2), 300.810 (a) (2), and OSWER Directive No. 9833.3A-1, Page 37, the Region has listed, in the Administrative Record Index (or in bibliographies of documents listed in the index), all guidance documents which may form a basis for the selection of this response action.. See *Section I* of the Administrative Record. Unless the guidance documents indexed were generated specifically for the Site, the guidance documents may not be physically present in the Administrative Record.

Documents listed as bibliographic sources for other documents in the record might not be listed separately in the Site Index. Where a document is listed in the Site Index but not located among the documents which EPA has made available in the repository, EPA will, upon request, include the document in the repository. This applies to verified sampling data, chain of custody forms, and guidance and policy documents. It does not apply to documents in EPA's "Confidential File". Requests for such documents should be addressed to the Removal Administrative Record Coordinator at the address listed above. Copies of guidance documents can also be obtained by calling the RCRA/Superfund/Title 3 Hotline at (800) 424-9346, or by accessing on your computer the US EPA Internet Home Page at: US EPA Headquarters, **http://www.epa.gov**. Then follow these instructions: click "Databases and Software"; click "General Information"; click "EPA's Information System Inventory (ISI)"; click "Index"; click "Enforcement" or "Superfund". Then, if you clicked "Enforcement", you will be on the "OECA" Page, where you will click "Policy & Guidance"; click "Statute Specific Policy Categories"; click "Site Remediation (Superfund)"; click on any of the listed "CERCLA (Superfund) Enforcement Documents" categories", including "Other Guidance and Documents," or you can click on "New Documents" for any recent policy additions. If you clicked on "Superfund" instead of "Enforcement", then click "Topics", or "Publications" and follow the menu.

COMMONLY USED ACRONYMS

ADPC&E	Arkansas Department of Pollution Control & Ecology
ATSDR	Agency for Toxic Substances and Disease Registry
CDC	Centers for Disease Control and Prevention
CERCLA	Comprehensive Environmental Response Compensation & Liability Act of 1980
EPA	United States Environmental Protection Agency
RPB	Response and Prevention Branch (formerly ERB)
ERRS	Emergency and Rapid Response Services [EPA Contractor] (Formerly ERCS)
FOIA	Freedom of Information Act
LDEQ	Louisiana Department of Environmental Quality
NFRAP	No Further Remedial Action Planned Summary
NMED	New Mexico Environment Department (formerly NMEID)
NPL	National Priorities List
OPA	Oil Pollution Act
OSC	On-Scene Coordinator
ODEQ	Oklahoma Department of Environmental Quality (formerly OSDH)
OSHA	Occupational Safety and Health Administration
POLREP	Pollution Report
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act of 1976
SARA	Superfund Amendment and Reauthorization Act of 1986
START	Superfund Technical Assessment and Response Team [EPA Contractor] (formerly TAT)
TNRCC	Texas Natural Resources Conservation Commission (formerly TWC)
UAO	Unilateral Administrative Order

ADMINISTRATIVE RECORD, HASTINGS RADIOCHEMICAL REMOVAL ACTION
SECTION I (GUIDANCE DOCUMENTS - NON SITE SPECIFIC)

DOCUMENT DATE	2/1/88
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Superfund Removal Procedures, Revision 3, OSWER 9360.-3B
AUTHOR	EPA
DESCRIPTION	Superfund removal procedures (superceded in part by later guidance).

DOCUMENT DATE	4/1/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Quality Assurance/Quality Control Guidance, OSWER 9360.4-01
AUTHOR	EPA
DESCRIPTION	Procedures for QA/QC for data collection activities and review of laboratory

DOCUMENT DATE	12/1/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Action Memorandum Guidance, OSWER 9360.3-01
AUTHOR	EPA
DESCRIPTION	Outlines the minimum requirements for an action memorandum.

DOCUMENT DATE	12/3/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Final Guidance on Administrative Records, OSWER 9833.3A-1
AUTHOR	EPA
DESCRIPTION	How to compile and establish administrative records under CERCLA.

DOCUMENT DATE	9/1/91
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Guidance on the Consideration of ARARs, OSWER 9360.3-02
AUTHOR	EPA
DESCRIPTION	Potential Applicable or Relevant and Appropriate Requirements (ARARs).

ADMINISTRATIVE RECORD, HASTINGS RADIOCHEMICAL REMOVAL ACTION
SECTION I (GUIDANCE DOCUMENTS - NON SITE SPECIFIC)

DOCUMENT DATE	4/1/92
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Removal Enforcement Guidance for OSCs, OSWER 9360.3-06
AUTHOR	EPA
DESCRIPTION	Summary of authorities for conducting enforcement activities during removals.

DOCUMENT DATE	7/1/92
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Public Participation Guidance for OSCs, OSWER 9360.3-05
AUTHOR	EPA
DESCRIPTION	Removal action public participation and administrative record activities.

DOCUMENT DATE	8/1/93
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Guidance on Conducting Non-Time-Critical Removal Actions, OSWER 9360.0-32
AUTHOR	EPA
DESCRIPTION	Non-time-critical removal actions and the National Contingency Plan.

DOCUMENT DATE	6/1/94
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Removal Response Reporting: POLREPs and OSC Reports, OSWER 9360.3-03
AUTHOR	EPA
DESCRIPTION	Clarifies removal actions reporting criteria.

DOCUMENT DATE	9/1/96
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Response Management: Start-up to Close-out, OSWER 9360.3-04
AUTHOR	EPA
DESCRIPTION	Summarizes guidance and statutory authorities for response management.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

ADMINISTRATIVE RECORD

REMOVAL ACTION

INDEX

May 31, 2002

SITE NAME: **BUFFALO COMPRESSOR STATION**

BUFFALO, HARPER COUNTY, OKLAHOMA

SITE NUMBER: **OK0000605396**

VOLUME I1 OF III

Internet Address (URL) - http://www.epa.gov/earth1r6/
Recycled/Recyclable - Printed with Vegetable Oil Based Inks on Recycled Paper (Minimum 30% Postconsumer)

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	1
LAST PAGE	55
DOCUMENT DATE	December 2, 1994
DOCUMENT TYPE	Report w/ Attachments
DOCUMENT TITLE	PCB General Site Characterization. Former Buffalo Compressor Station
AUTHOR	Unspecified
AUTHOR'S COMPANY	ERM-Rocky Mountain, Inc.
RECIPIENT	Unspecified
RECIPIENT'S COMPANY	U.S. EPA, Region 6 *and* Williams Natural Gas Company
DESCRIPTION	PCB general site characterization with the following attachments:

0014-0015	Figure 1	Site Location Map
0016-0017	Figure 2	Site Diagram
0018-0019	Table 1	Relative Percent Difference Values
0020-0021	Table 2	Analytical Results
0022-0024	Appendix A	Site Photos
0025-0025	Appendix B	Waste Disposal Documents (None)
0026-0055	Appendix C	Analytical Reports

May 31, 2002

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	**56**
LAST PAGE	**86**
DOCUMENT DATE	**April 6, 1995**
DOCUMENT TYPE	**Report w/ Attachments**
DOCUMENT TITLE	**PCB Site Characterization, Williams Natural Gas Facility, Project No. 11885**
AUTHOR	**Unspecified**
AUTHOR'S COMPANY	**Burlington Environmental, Inc., *A Philip Environmental Company***
RECIPIENT	**Unspecified**
RECIPIENT'S COMPANY	**U.S. EPA, Region 6 *and* Williams Natural Gas**
DESCRIPTION	**PCB Site Characterization with following attachments:**

0062-0065	**Figures**	**Maps/Diagrams/Drawings**
0066-0068	**Tables:**	**PCB Analytical Results for Concrete Wipe Samples**
0069-0078	**Appendix A.**	**Sample Logs/Chain of Custody Documentation**
0079-0083	**Appendix B.**	**ETS Analytical Results**
0084-0086	**Appendix C**	**Manifests and Certificates of Disposal**

May 31, 2002

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	**87**
LAST PAGE	**458**
DOCUMENT DATE	**April 23, 2001**
DOCUMENT TYPE	**Report w/ Attachments**
DOCUMENT TITLE	**PCB Site Characterization, Buffalo Compressor Station, Buffalo, OK, NE 1/4, NE 1/4, Sec. 1, T27N, R23W, Harper County. Project No. 50007055.**
AUTHOR/s	**John R. Rockhold, P.G., CGWP, Senior Project Manager *and* Michael S. Kukuk, P.G., Associate Principal**
AUTHOR'S COMPANY	**Terracon**
RECIPIENT	**Mark Sullivan**
RECIPIENT'S COMPANY	**Williams Gas Pipelines South Central *and* U.S. EPA, Region 6**
DESCRIPTION	**Final Emergency Response Report describing the U.S. EPA's response actions at the Service Waste, Inc., fire site with attachments:**

0109-0110	Appendix A:	Figure 1.	Site Vicinity Map
0111-0111		Figure 2.	Site Diagram
0112-0112		Figure 3.	Impoundment Area Grid - PCB Results
0113-0113		Figure 4.	Air Receiver Discharge Area Grid
0114-0114		Figure 5.	Impoundment Area Grid - PCB Results
0115-0119	Appendix B:	Table 1.	PCB Analytical Results
0120-0120		Table 2.	RCRA Metal Analysis Soils (11-20-2000)
0121-0122		Table 3.	SVOC Analysis Soils (11-2000)
0123-0125	Appendix C:	Standard Operating Procedures	
0126-0128	Appendix D:	Photo Log	
0129-0354	Appendix E:	Laboratory Reports	
0355-0361	Appendix F:	Final Report and Letter from Williams to EPA Region V1 (3-10-95) w/ Attachments:	
0362-0370	Figures	Maps/Drawings/Diagrams	
0371-0379	Tables	Table A - Tables 1 thru 7	
0380-0458	Appendices:	Reports/Analytical Reports	

May 31, 2002

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE:	**459**
LAST PAGE:	**473**
DOCUMENT DATE:	**May 20, 2002**
DOCUMENT TYPE:	**Removal Action Memorandum w/ Attachments**
DOCUMENT TITLE:	**Request for a Time Critical Removal Action at the Buffalo Compressor Station Site, Harper County, Oklahoma**
AUTHOR:	**Rita Engblom, Federal OSC (On-Scene Coordinator)**
AUTHOR'S COMPANY:	**U.S. EPA, Region 6**
RECIPIENT:	**Myron O. Knudson, P.E., Director**
RECIPIENT'S COMPANY:	**U.S. EPA, Region 6**
DESCRIPTION:	**Request and documents for a Removal Action at Buffalo Compressor Station Site. Attachments are as follows:**

0471-0471	Attachment 1	Site Location Map
0472-0742	Attachment 2	Site Map
0473-0473	Attachment 3	Enforcement Attachment has been withheld as Enforcement Sensitive and is located only in separate confidential files at U.S. EPA, Region 6

QWAL Laboratories, Inc.
Quality Co, Report

TERRACON
0012075

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000158

QWAL Laboratories, Inc.

Quality C[illegible]l Report

TERRACON

0012075

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	86.4	86.3	0.1								316	302	105

000159

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials: GBL

000160

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

:TORY REPORT: REFERENCE #: 0012076

:NT TERRACON ENVIRONMENTAL
: 13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED:
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #: 50007055

OJECT:WGPSC-BUFFALO OK PART 3

mple ID: BUFF-I-1A Sample Matrix: SOIL
llection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
P PACKAGE			STD UN			
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
CB (SUR)	-	96	150	50		12/06/00
TAL SOLIDS	EPA 160.3	94.09	%	0.01	12/04/00KDH	

ample ID: BUFF-I-2A Sample Matrix: SOIL
ollection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	93	150	50		12/06/00
TAL SOLIDS	EPA 160.3	95.25	%	0.01	12/04/00KDH	

ample ID: BUFF-I-3A Sample Matrix: SOIL
ollection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	839	UG/KG	17	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/07/00JSS	12/06/00
DCB (SUR)	-	71	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	98.25	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-4A Sample Matrix: SOIL
Collection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	2650D	UG/KG	17	12/07/00JSS	12/06/00
B-1260	11096-82-5	ND	UG/KG	17	12/07/00JSS	12/06/00
DCB (SUR)	-	68	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	97.81	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-5A Sample Matrix: SOIL
Collection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	65	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.73	%	0.01	12/04/00KDH	

ample ID: BUFF-I-6A Sample Matrix: SOIL
ollection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	77	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	95.34	%	0.01	12/04/00KDH	

ample ID: BUFF-I-10A Sample Matrix: SOIL
ollection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	49 Q	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.04	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-11A Sample Matrix: SOIL
Collection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	40 Q	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	96.34	%	0.01	12/04/00KDH	

ple ID: BUFF-I-15A Sample Matrix: SOIL
lection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	19	12/07/00JSS	12/06/00
CB-1221	11104-28-2	ND	UG/KG	19	12/07/00JSS	12/06/00
CB-1232	11141-16-5	ND	UG/KG	19	12/07/00JSS	12/06/00
CB-1242	53469-21-9	ND	UG/KG	19	12/07/00JSS	12/06/00
CB-1248	12672-29-6	ND	UG/KG	19	12/07/00JSS	12/06/00
CB-1254	11097-69-1	ND	UG/KG	19	12/07/00JSS	12/06/00
CB-1260	11096-82-5	ND	UG/KG	19	12/07/00JSS	12/06/00
B (SUR)	-	59	150	50		12/06/00
TAL SOLIDS	EPA 160.3	94.71	%	0.01	12/04/00KDH	

nple ID: BUFF-I-16A Sample Matrix: SOIL
llection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/07/00JSS	12/06/00
P 1254	11097-69-1	ND	UG/KG	17	12/07/00JSS	12/06/00
P 1260	11096-82-5	ND	UG/KG	17	12/07/00JSS	12/06/00
CB (SUR)	-	76	150	50		12/06/00
TAL SOLIDS	EPA 160.3	97.40	%	0.01	12/04/00KDH	

mple ID: BUFF-I-20A Sample Matrix: SOIL
llection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	61	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	99	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	95.19	%	0.01	12/04/00KDH	

ample ID: BUFF-I-21A Sample Matrix: SOIL
ollection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	97	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	96.40	%	0.01	12/04/00KDH	

ample ID: BUFF-I-22A Sample Matrix: SOIL
ollection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	93	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.05	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-23A Sample Matrix: SOIL
Collection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	83	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.73	%	0.01	12/04/00KDH	

ple ID: BUFF-I-24A Sample Matrix: SOIL
lection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
'CB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
'CB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
'CB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
'CB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
'CB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
'CB-1254	11097-69-1	ND	UG/KG	18	12/08/00JSS	12/06/00
'CB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
CB (SUR)	-	86	150	50		12/06/00
TAL SOLIDS	EPA 160.3	94.50	%	0.01	12/04/00KDH	

nple ID: BUFF-I-25A Sample Matrix: SOIL
llection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/08/00JSS	12/06/00
1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
CB (SUR)	-	49 Q	150	50		12/06/00
TAL SOLIDS	EPA 160.3	96.87	%	0.01	12/04/00KDH	

mple ID: BUFF-I-1B Sample Matrix: SOIL
llection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/08/00JSS	12/06/00
DCB (SUR)	-	73	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	89.82	%	0.01	12/04/00KDH	

nple ID: BUFF-I-2B Sample Matrix: SOIL
llection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
)CB (SUR)	-	71	150	50		12/06/00
)TAL SOLIDS	EPA 160.3	91.95	%	0.01	12/04/00KDH	

ample ID: BUFF-I-3B Sample Matrix: SOIL
ollection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	4800	UG/KG	18	12/08/00JSS	12/06/00
1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	104	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	94.67	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-4B Sample Matrix: SOIL
Collection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	2030	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	100	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.33	%	0.01	12/04/00KDH	

ple ID: BUFF-I-5B Sample Matrix: SOIL
ection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	20	12/11/00JSS	12/08/00
CB-1221	11104-28-2	ND	UG/KG	20	12/11/00JSS	12/08/00
CB-1232	11141-16-5	ND	UG/KG	20	12/11/00JSS	12/08/00
CB-1242	53469-21-9	ND	UG/KG	20	12/11/00JSS	12/08/00
CB-1248	12672-29-6	ND	UG/KG	20	12/11/00JSS	12/08/00
CB-1254	11097-69-1	ND	UG/KG	20	12/11/00JSS	12/08/00
CB-1260	11096-82-5	ND	UG/KG	20	12/11/00JSS	12/08/00
B (SUR)	-	84	150	50		12/08/00
AL SOLIDS	EPA 160.3	87.06	%	0.01	12/04/00KDH	

ple ID: BUFF-I-6B Sample Matrix: SOIL
lection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
P .260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
CB (SUR)	-	95	150	50		12/08/00
TAL SOLIDS	EPA 160.3	92.51	%	0.01	12/04/00KDH	

mple ID: BUFF-I-7B Sample Matrix: SOIL
llection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	88	150	50		12/08/00
TAL SOLIDS	EPA 160.3	92.26	%	0.01	12/04/00KDH	

ple ID: BUFF-I-8B Sample Matrix: SOIL
lection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/08/00
CB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/08/00
CB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/08/00
CB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/08/00
CB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/08/00
CB-1254	11097-69-1	309	UG/KG	17	12/11/00JSS	12/08/00
CB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/08/00
B (SUR)	-	98	150	50		12/08/00
AL SOLIDS	EPA 160.3	97.58	%	0.01	12/04/00KDH	

ple ID: BUFF-I-9B Sample Matrix: SOIL
lection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
P 260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
CB (SUR)	-	67	150	50		12/08/00
TAL SOLIDS	EPA 160.3	89.34	%	0.01	12/04/00KDH	

mple ID: BUFF-I-10B Sample Matrix: SOIL
llection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	89	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
CB (SUR)	-	74	150	50		12/08/00
TAL SOLIDS	EPA 160.3	94.09	%	0.01	12/04/00KDH	
TRACTION	NONE	DONE	NONE		DLB	12/14/00

ample ID: BUFF-I-11B Sample Matrix: SOIL
ollection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	80	150	50		12/08/00
OTAL SOLIDS	EPA 160.3	91.29	%	0.01	12/04/00KDH	

ample ID: BUFF-I-12B Sample Matrix: SOIL
ollection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	1810D	UG/KG	18	12/11/00JSS	12/08/00
-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	30 Q	150	50		12/08/00
OTAL SOLIDS	EPA 160.3	95.89	%	0.01	12/04/00KDH	

ample ID: BUFF-I-13B Sample Matrix: SOIL
ollection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	102	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	64	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	93.73	%	0.01	12/04/00KDH	

ple ID: BUFF-I-14B Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
B (SUR)	-	78	150	50		12/08/00
AL SOLIDS	EPA 160.3	92.12	%	0.01	12/04/00KDH	

ple ID: BUFF-I-15B Sample Matrix: SOIL
llection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PC 1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
P 1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
CB (SUR)	-	89	150	50		12/08/00
TAL SOLIDS	EPA 160.3	91.43	%	0.01	12/04/00KDH	
TRACTION	NONE	DONE	NONE		DLB	12/14/00

mple ID: BUFF-I-16B Sample Matrix: SOIL
llection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	72	150	50		12/08/00
OTAL SOLIDS	EPA 160.3	91.17	%	0.01	12/04/00KDH	

ple ID: BUFF-I-17B Sample Matrix: SOIL
lection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
CB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
B (SUR)	-	98	150	50		12/08/00
AL SOLIDS	EPA 160.3	92.42	%	0.01	12/04/00KDH	

nple ID: BUFF-I-18B Sample Matrix: SOIL
llection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PC 1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
P .260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
CB (SUR)	-	150	150	50		12/08/00
TAL SOLIDS	EPA 160.3	93.15	%	0.01	12/04/00KDH	

mple ID: BUFF-I-19B Sample Matrix: SOIL
llection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	25300D	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	53	150	50		12/08/00
OTAL SOLIDS	EPA 160.3	92.55	%	0.01	12/04/00KDH	

ple ID: BUFF-I-20B Sample Matrix: SOIL
lection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
CB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
CB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
CB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
CB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
CB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
CB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
B (SUR)	-	86	150	50		12/08/00
AL SOLIDS	EPA 160.3	90.09	%	0.01	12/04/00KDH	
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-21B Sample Matrix: SOIL
llection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
P .254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
CB (SUR)	-	115	150	50		12/08/00
TAL SOLIDS	EPA 160.3	89.53	%	0.01	12/04/00KDH	

mple ID: BUFF-I-22B Sample Matrix: SOIL
llection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
CB (SUR)	-	90	150	50		12/08/00
TAL SOLIDS	EPA 160.3	89.62	%	0.01	12/04/00KDH	

nple ID: BUFF-I-23B Sample Matrix: SOIL
llection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
CB (SUR)	-	93	150	50		12/08/00
TAL SOLIDS	EPA 160.3	92.24	%	0.01	12/04/00KDH	

mple ID: BUFF-I-24B Sample Matrix: SOIL
llection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/08/00
-1254	11097-69-1	ND	UG/KG	17	12/11/00JSS	12/08/00
-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/08/00
DCB (SUR)	-	82	150	50		12/08/00
OTAL SOLIDS	EPA 160.3	97.42	%	0.01	12/04/00KDH	

ample ID: BUFF-I-25B Sample Matrix: SOIL
ollection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/09/00
DCB (SUR)	-	97	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	91.73	%	0.01	12/04/00KDH	

ple ID: BUFF-I-1C Sample Matrix: SOIL
lection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1254	11097-69-1	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/09/00
B (SUR)	-	109	150	50		12/09/00
TAL SOLIDS	EPA 160.3	98.53	%	0.01	12/04/00KDH	

mple ID: BUFF-I-2C Sample Matrix: SOIL
llection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	22	UG/KG	18	12/11/00JSS	12/09/00
1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/09/00
CB (SUR)	-	83	150	50		12/09/00
TAL SOLIDS	EPA 160.3	94.18	%	0.01	12/04/00KDH	

ample ID: BUFF-I-3C Sample Matrix: SOIL
ollection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	1590D	UG/KG	18	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/09/00
DCB (SUR)	-	49 Q	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	96.34	%	0.01	12/04/00KDH	

ple ID: BUFF-I-4C Sample Matrix: SOIL
lection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/09/00
CB-1254	11097-69-1	80	UG/KG	17	12/11/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/09/00
B (SUR)	-	113	150	50		12/09/00
AL SOLIDS	EPA 160.3	97.91	%	0.01	12/04/00KDH	

ple ID: BUFF-I-5C Sample Matrix: SOIL
llection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/09/00
P 1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/09/00
CB (SUR)	-	96	150	50		12/09/00
TAL SOLIDS	EPA 160.3	94.42	%	0.01	12/04/00KDH	

mple ID: BUFF-I-6C Sample Matrix: SOIL
llection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	129	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	96.12	%	0.01	12/04/00KDH	

ple ID: BUFF-I-7C Sample Matrix: SOIL
lection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1254	11097-69-1	4220	UG/KG	18	12/12/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
:B (SUR)	-	96	150	50		12/09/00
:AL SOLIDS	EPA 160.3	92.78	%	0.01	12/04/00KDH	

=NONE DETECTED
L=PRACTICAL QUANTITATION LIMIT
=STANDARD UNITS
ACKGROUND CONTAMINATION
R=SURROGATE
OUTSIDE LIMITS
DETECTED IN METHOD BLANK

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): [signature]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-1 (A)	11/30/00	1000	Soil		X	1	X	OK to RUN
BUFF-I-2 (A)		1010	Soil		X	1	X	
BUFF-I-3 (A)		1015	Soil		X	1	X	
BUFF-I-4 (A)		1020	Soil		X	1	X	
BUFF-I-5 (A)		1030	Soil		X	1	X	
BUFF-I-6 (A)		1035	Soil		X	1	X	
BUFF-I-10 (A)		1110	Soil		X	1	X	
BUFF-I-11 (A)		1115	Soil		X	1	X	
BUFF-I-15 (A)		1155	Soil		X	1	X	
BUFF-I-16 (A)		1200	Soil		X	1	X	
BUFF-I-20 (A)		1230	Soil		X	1	X	
BUFF-I-21 (A)		1235	Soil		X	1	X	
BUFF-I-22 (A)		1240	Soil		X	1	X	
BUFF-I-33 (A)		1245	Soil		X	1	X	
BUFF-I-34 (A)		1250	Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48-Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE:	SIGNATURE:
PRINTED NAME: Terracon	PRINTED NAME: [signature]	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

12/2/00 11:40

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGPSC- Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)

RESULTS ATTENTION TO:
John R. Rockhold

PRESERVATIVE

SAMPLE I.D.	DATE	TIME	MATRIX	COOL	# of Containers	PCB's by EPA 8082	REMARKS
BUFF-T-25 (A)	11/30/00	1255	Soil	X	1	X	OK to Run
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	

SHIPPING VIA:
Federal Express

SHIPPING NO.:
1127-5857-7

PRIORITY:
overnight

LABORATORY PRIORITY

XXX 48 Hour ____ STANDARD 72 hour TAT ____ OTHER

(____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Tony Poulter	Sue Robinson 12/2/00 11:40		
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
Terracon			
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS: Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK

PROJECT NUMBER: 50007055

SAMPLER (SIGNATURE): Jason R. Charles

RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA Metals 6000/7000	REMARKS
Buff-I-1 (B)	11/30/00	1000	Soil		X	1	X			OK to Run
Buff-I-2 (B)		1010	Soil		X	1	X			
Buff-I-3 (B)		1015	Soil		X	1	X			
Buff-I-4 (B)		1020	Soil		X	1	X			
Buff-I-5 (B)		1030	Soil		X	1	X			
Buff-I-6 (B)		1035	Soil		X	1	X			
Buff-I-7 (B)		1045	Soil		X	1	X			
Buff-I-8 (B)		1055	Soil		X	1	X			
Buff-I-9 (B)		1100	Soil		X	1 X	X			
Buff-I-10 (B)		1110	Soil		X	3	X	X	X	Run PCB's Hold SVOC's / metal
Buff-I-11 (B)		1115	Soil		X	1	X			
Buff-I-12 (B)		1120	Soil		X	1	X			
Buff-I-13 (B)		1135	Soil		X	1	X			
Buff-I-14 (B)		1150	Soil		X	1	X			
Buff-I-15 (B)		1155	Soil		X	3	X	X	X	Run PCB's Hold SVOC's / metals

SHIPPING VIA: Federal Express

SHIPPING NO.: 1127-5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XXX 48-Hour STANDARD 72 hour TAT OTHER

PROVIDE VERBAL PRELIMINARY RESULTS FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Lee Robinson	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): [signature]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOCs by 8270	RCRA metals 6000/7000					REMARKS
Buff-I-16 (B)	11/30/00	1200	Soil		X	1	X							OK to RUN
Buff-I-17 (B)		1205	Soil		X	1	X							
Buff-I-18 (B)		1210	Soil		X	1	X							
Buff-I-19 (B)		1215	Soil		X	1	X							
Buff-I-20 (B)		1230	Soil		X	3	X	X	X					@ Run PCB's Hold SVOCs/metals
Buff-I-21 (B)		1235	Soil		X	1	X							
Buff-I-22 (B)		1240	Soil		X	1	X							
Buff-I-23 (B)		1245	Soil		X	1	X							
Buff-I-24 (B)		1250	Soil		X	1	X							
Buff-I-25 (B)		1255	Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48-Hour ____ STANDARD 72 hour TAT ____ OTHER
____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00 11:40	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

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BUFF I

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): [signature]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	2:2A metals 6000/7000	REMARKS
Buff-I-1 (c)	11/30/00	1000	Soil		X	1	X			OK to Run
Buff-I-2 (c)		1010	Soil		X	1	X			
Buff-I-3 (c)		1015	Soil		X	1	X			
Buff-I-4 (c)		1020	Soil		X	1	X			
Buff-I-5 (c)		1030	Soil		X	1	X			
Buff-I-6 (c)		1035	Soil		X	1	X			
Buff-I-7 (c)		1045	Soil		X	1	X			
Buff-I-8 (c)		1055	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metals
		1100	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metals
		1110	Soil		X	1	X			OK to Run
		1115	Soil		X	1	X			OK to Run
		1120	Soil		X	1	X			OK to Run
		1135	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metals
		1150	Soil		X	3	X	X	X	OK to Run All
		1155	Soil		X	1	X			OK to Run

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Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48-Hour ____ STANDARD 72 hour TAT ____ OTHER
____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

Quality Control Report

T. .ACON

0012076

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1221	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1232	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1242	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1248	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1254	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1260	8082		GC/ECD	12/11/00		soil	ug/Kg
DCB (Surr)	8082		GC/ECD	12/11/00		soil	ug/Kg

000183

Quality Control Report

TERRACON

0012076

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				89.3	66.66	154	97	191	153 *	21	48.3	66.666	72
PCB-1260	ND											ND		
DCB (Surr)	5.25				6.9	6.66	6.03	85	7.17	101	17	7.77	6.66	116

0001184

Quality Control Report

TERRACON

0012076

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000185

QWAL Laboratories, Inc.

Quality trol Report

TERRACON

0012076

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	86.4	86.3	0.1								316	302	105

000186

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials: JL

000187

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: REFERENCE #: 0012077

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED:
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #: 50007055

PROJECT:WGPSC-BUFFALO OK - PART 4

Sample ID: BUFF-I-8C Sample Matrix: SOIL
Collection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
TCLP PACKAGE			STD UN			
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	3780D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	37 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	93.96	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	12/14/00

Sample ID: BUFF-I-9C Sample Matrix: SOIL
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	3060D	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	62	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.64	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	12/14/00

mple ID: BUFF-I-10C Sample Matrix: SOIL
llection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	21	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
CB (SUR)	-	103	150	50		12/09/00
TAL SOLIDS	EPA 160.3	97.26	%	0.01	12/04/00KDH	

mple ID: BUFF-I-11C Sample Matrix: SOIL
llection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	94	150	50		12/09/00
TAL SOLIDS	EPA 160.3	94.93	%	0.01	12/04/00KDH	

ample ID: BUFF-I-12C Sample Matrix: SOIL
llection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	4330D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	6 Q	150	50		12/09/00
TAL SOLIDS	EPA 160.3	93.74	%	0.01	12/04/00KDH	

ample ID: BUFF-I-13C Sample Matrix: SOIL
ollection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	4440D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	6 Q	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	95.89	%	0.01	12/04/00KDH	
XTRACTION	NONE	DONE	NONE		DLB	12/14/00

ample ID: BUFF-I-14C Sample Matrix: SOIL
ollection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
1254	11097-69-1	4550D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	8 Q	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	96.37	%	0.01	12/04/00KDH	
EMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	5900	12/13/00DN	12/12/00
ACENAPHTHYLENE	208-96-8	ND	UG/KG	5900	12/13/00DN	12/12/00
ANTHRACENE	120-12-7	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZIDINE	92-87-5	ND	UG/KG	29000	12/13/00DN	12/12/00
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZOIC ACID	65-85-0	ND	UG/KG	29000	12/13/00DN	12/12/00
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZO(A)PYRENE	191-24-2	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZYL ALCOHOL	100-51-6	ND	UG/KG	12000	12/13/00DN	12/12/00
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	5900	12/13/00DN	12/12/00
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	5900	12/13/00DN	12/12/00
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	5900	12/13/00DN	12/12/00
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	5900	12/13/00DN	12/12/00
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	5900	12/13/00DN	12/12/00
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	5900	12/13/00DN	12/12/00
4-CHLOROANILINE	106-47-8	ND	UG/KG	12000	12/13/00DN	12/12/00
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	12000	12/13/00DN	12/12/00

ple ID: BUFF-I-14C Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	5900	12/13/00DN	12/12/00
-CHLOROPHENOL	95-57-8	ND	UG/KG	5900	12/13/00DN	12/12/00
-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	5900	12/13/00DN	12/12/00
HRYSENE	218-01-9	ND	UG/KG	5900	12/13/00DN	12/12/00
IBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	5900	12/13/00DN	12/12/00
IBENZOFURAN	132-64-9	ND	UG/KG	5900	12/13/00DN	12/12/00
,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	5900	12/13/00DN	12/12/00
,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	5900	12/13/00DN	12/12/00
,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	5900	12/13/00DN	12/12/00
,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	12000	12/13/00DN	12/12/00
,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	5900	12/13/00DN	12/12/00
IETHYL PHTHALATE	84-66-2	ND	UG/KG	5900	12/13/00DN	12/12/00
,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	5900	12/13/00DN	12/12/00
IMETHYLPHATHALATE	131-11-3	ND	UG/KG	5900	12/13/00DN	12/12/00
SOPHORONE	78-59-1	ND	UG/KG	5900	12/13/00DN	12/12/00
I-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	5900	12/13/00DN	12/12/00
,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	12000	12/13/00DN	12/12/00
,4-DINITROPHENOL	51-28-5	ND	UG/KG	12000	12/13/00DN	12/12/00
,4-DINITROTOLUENE	121-14-2	ND	UG/KG	5900	12/13/00DN	12/12/00
,6-DINITROTOLUENE	606-20-2	ND	UG/KG	5900	12/13/00DN	12/12/00
I-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	5900	12/13/00DN	12/12/00
,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	5900	12/13/00DN	12/12/00
LUORANTHENE	206-44-0	ND	UG/KG	5900	12/13/00DN	12/12/00
L[illegible]ENE	86-73-7	ND	UG/KG	5900	12/13/00DN	12/12/00
E [illegible]LOROBENZENE	118-74-1	ND	UG/KG	5900	12/13/00DN	12/12/00
EXACHLOROBUTADIENE	87-68-3	ND	UG/KG	5900	12/13/00DN	12/12/00
EXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	5900	12/13/00DN	12/12/00
EXACHLOROETHANE	67-72-1	ND	UG/KG	5900	12/13/00DN	12/12/00
NDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	5900	12/13/00DN	12/12/00
-METHYLNAPHTHALENE	91-57-6	6770	UG/KG	5900	12/13/00DN	12/12/00
-METHYLPHENOL	95-48-7	ND	UG/KG	5900	12/13/00DN	12/12/00
,4-METHYLPHENOL	106-44-5	ND	UG/KG	5900	12/13/00DN	12/12/00
APHTHALENE	91-20-3	ND	UG/KG	5900	12/13/00DN	12/12/00
-NITROANILINE	88-74-4	ND	UG/KG	29000	12/13/00DN	12/12/00
-NITROANILINE	99-09-2	ND	UG/KG	29000	12/13/00DN	12/12/00
-NITROANILINE	100-01-6	ND	UG/KG	29000	12/13/00DN	12/12/00
ITROBENZENE	98-95-3	ND	UG/KG	5900	12/13/00DN	12/12/00
-NITROPHENOL	88-75-5	ND	UG/KG	5900	12/13/00DN	12/12/00
-NITROPHENOL	100-02-7	ND	UG/KG	29000	12/13/00DN	12/12/00
-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	5900	12/13/00DN	12/12/00
-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	5900	12/13/00DN	12/12/00
-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	5900	12/13/00DN	12/12/00
ENTACHLOROPHENOL	87-86-5	ND	UG/KG	29000	12/13/00DN	12/12/00
HENATHRENE	85-01-8	ND	UG/KG	5900	12/13/00DN	12/12/00
HENOL	108-95-2	ND	UG/KG	5900	12/13/00DN	12/12/00
YRENE	129-00-0	ND	UG/KG	5900	12/13/00DN	12/12/00
,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	5900	12/13/00DN	12/12/00
,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	5900	12/13/00DN	12/12/00

:ple ID: BUFF-I-14C Sample Matrix: SOIL
.lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	5900	12/13/00DN	12/12/00
-FLUOROBIPHENYL (SUR)	-	Q	150	10		12/12/00
ITROBENZENE-D5 (SUR)	-	Q	150	10		12/12/00
-FLUOROPHENOL (SUR)	-	Q	150	10		12/12/00
,4,6-TRIBROMOPHENOL (SUR)	-	Q	150	10		12/12/00
ERPHENYL-D14 (SUR)	-	Q	150	10		12/12/00
HENOL-D5 (SUR)	-	Q	150	10		12/12/00
TAL PREPARATION	EPA 3050	IS001205			12/05/00JH	
LVER, TOTAL	SW 846 6010B	<0.5	MG/KG	0.5	12/08/00RDC	
SENIC, TOTAL	SW 846 6010B	1.8	MG/KG	0.5	12/08/00RDC	
RIUM, TOTAL	SW 846 6010B	145	MG/KG	0.05	12/08/00RDC	
DMIUM, TOTAL	SW 846 6010B	0.28	MG/KG	0.05	12/08/00RDC	
ROMIUM, TOTAL	SW 846 6010B	7.9	MG/KG	0.01	12/08/00RDC	
RCURY, TOTAL	SW 846 7471	1.715	MG/KG	0.01	12/05/00KM	
AD, TOTAL	SW 846 6010B	32.0	MG/KG	0.1	12/08/00RDC	
LENIUM, TOTAL	SW 846 6010B	<0.5	MG/KG	0.5	12/08/00RDC	

mple ID: BUFF-I-15C Sample Matrix: SOIL
llection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB	SW846 8082					
P 1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	45-Q	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	96.94	%	0.01	12/04/00KDH	

ample ID: BUFF-I-16C Sample Matrix: SOIL
ollection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00

:le ID: BUFF-I-16C Sample Matrix: SOIL
lection Date: 11/30/00 12:00:00

EST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
3 (SUR)	-	68	150	50		12/09/00
AL SOLIDS	EPA 160.3	98.52	%	0.01	12/04/00KDH	

ple ID: BUFF-I-17C Sample Matrix: SOIL
lection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1254	11097-69-1	1110D	UG/KG	18	12/12/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
B (SUR)	-	31 Q	150	50		12/09/00
AL SOLIDS	EPA 160.3	96.34	%	0.01	12/04/00KDH	

ple ID: BUFF-I-18C Sample Matrix: SOIL
lection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1254	11097-69-1	2390D	UG/KG	18	12/12/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
B (SUR)	-	20 Q	150	50		12/09/00
AL SOLIDS	EPA 160.3	97.03	%	0.01	12/04/00KDH	
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-19C Sample Matrix: SOIL
lection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00

ple ID: BUFF-I-19C Sample Matrix: SOIL
lection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1254	11097-69-1	3820D	UG/KG	18	12/12/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
B (SUR)	-	7 Q	150	50		12/09/00
AL SOLIDS	EPA 160.3	96.50	%	0.01	12/04/00KDH	
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-20C Sample Matrix: SOIL
lection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
B (SUR)	-	130	150	50		12/09/00
TAL SOLIDS	EPA 160.3	96.15	%	0.01	12/04/00KDH	

nple ID: BUFF-I-21C Sample Matrix: SOIL
llection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	119	150	50		12/09/00
TAL SOLIDS	EPA 160.3	96.43	%	0.01	12/04/00KDH	

ple ID: BUFF-I-22C Sample Matrix: SOIL
lection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
B (SUR)	-	127	150	50		12/09/00
AL SOLIDS	EPA 160.3	96.19	%	0.01	12/04/00KDH	

ple ID: BUFF-I-23C Sample Matrix: SOIL
lection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
P 254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	99	150	50		12/09/00
TAL SOLIDS	EPA 160.3	96.16	%	0.01	12/04/00KDH	

mple ID: BUFF-I-24C Sample Matrix: SOIL
llection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	118	150	50		12/09/00
TAL SOLIDS	EPA 160.3	96.93	%	0.01	12/04/00KDH	

mple ID: BUFF-I-25C Sample Matrix: SOIL
llection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
CB (SUR)	-	124	150	50		12/09/00
TAL SOLIDS	EPA 160.3	97.67	%	0.01	12/04/00KDH	

mple ID: BUFF-I-1D Sample Matrix: SOIL
llection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
P 1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
P 1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	119	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	98.03	%	0.01	12/04/00KDH	

ample ID: BUFF-I-2D Sample Matrix: SOIL
ollection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	114	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	98.24	%	0.01	12/04/00KDH	

nple ID: BUFF-I-3D Sample Matrix: SOIL
llection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
CB (SUR)	-	102	150	50		12/09/00
TAL SOLIDS	EPA 160.3	96.35	%	0.01	12/04/00KDH	

mple ID: BUFF-I-4D Sample Matrix: SOIL
llection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	136	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	98.59	%	0.01	12/04/00KDH	

ample ID: BUFF-I-5D Sample Matrix: SOIL
ollection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	125	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	95.56	%	0.01	12/04/00KDH	

ple ID: BUFF-I-6D Sample Matrix: SOIL
lection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
CB (SUR)	-	130	150	50		12/09/00
TAL SOLIDS	EPA 160.3	98.57	%	0.01	12/04/00KDH	

mple ID: BUFF-I-7D Sample Matrix: SOIL
llection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
1254	11097-69-1	4680D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
CB (SUR)	-	63	150	50		12/09/00
TAL SOLIDS	EPA 160.3	95.69	%	0.01	12/04/00KDH	

mple ID: BUFF-I-8D Sample Matrix: SOIL
llection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	5500D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	110	150	50		12/09/00
OTAL SOLIDS	EPA 160.3	92.59	%	0.01	12/04/00KDH	

ple ID: BUFF-I-9D Sample Matrix: SOIL
lection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
CB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
CB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
CB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
CB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
CB-1254	11097-69-1	2380D	UG/KG	17	12/13/00JSS	12/09/00
CB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
B (SUR)	-	102	150	50		12/09/00
AL SOLIDS	EPA 160.3	98.06	%	0.01	12/04/00KDH	

ple ID: BUFF-I-10D Sample Matrix: SOIL
lection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PC 254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PC 1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
CB (SUR)	-	132	150	50		12/09/00
TAL SOLIDS	EPA 160.3	98.55	%	0.01	12/04/00KDH	

mple ID: BUFF-I-11D Sample Matrix: SOIL
llection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
CB (SUR)	-	141	150	50		12/09/00
TAL SOLIDS	EPA 160.3	98.55	%	0.01	12/04/00KDH	

mple ID: BUFF-I-12D Sample Matrix: SOIL
llection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	214	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
CB (SUR)	-	130	150	50		12/09/00
TAL SOLIDS	EPA 160.3	97.57	%	0.01	12/04/00KDH	

mple ID: BUFF-I-13D Sample Matrix: SOIL
llection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	5660D	UG/KG	18	12/13/00JSS	12/09/00
P .260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
CB (SUR)	-	108	150	50		12/09/00
TAL SOLIDS	EPA 160.3	92.84	%	0.01	12/04/00KDH	

mple ID: BUFF-I-14D Sample Matrix: SOIL
llection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	2480D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
CB (SUR)	-	51	150	50		12/09/00
TAL SOLIDS	EPA 160.3	94.74	%	0.01	12/04/00KDH	

le ID: BUFF-I-15D Sample Matrix: SOIL
ection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
:B-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/12/00
:B-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/12/00
:B-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/12/00
:B-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/12/00
:B-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/12/00
:B-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/12/00
:B-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/12/00
3 (SUR)	-	94	150	50		12/12/00
AL SOLIDS	EPA 160.3	97.89	%	0.01	12/04/00KDH	

ple ID: BUFF-I-16D Sample Matrix: SOIL
lection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/12/00
C 60	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/12/00
B (SUR)	-	50	150	50		12/12/00
AL SOLIDS	EPA 160.3	96.57	%	0.01	12/04/00KDH	

ple ID: BUFF-I-17D Sample Matrix: SOIL
lection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/12/00
CB-1254	11097-69-1	714	UG/KG	17	12/12/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/12/00
B (SUR)	-	113	150	50		12/12/00
AL SOLIDS	EPA 160.3	97.76	%	0.01	12/04/00KDH	

le ID: BUFF-I-19D Sample Matrix: SOIL
ection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1254	11097-69-1	962D	UG/KG	18	12/12/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/12/00
B (SUR)	-	105	150	50		12/12/00
AL SOLIDS	EPA 160.3	95.13	%	0.01	12/04/00KDH	

ple ID: BUFF-I-19D Sample Matrix: SOIL
lection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/12/00
CB-1254	11097-69-1	2290D	UG/KG	18	12/12/00JSS	12/12/00
C 260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/12/00
B (SUR)	-	119	150	50		12/12/00
AL SOLIDS	EPA 160.3	96.14	%	0.01	12/04/00KDH	

nple ID: BUFF-I-20D Sample Matrix: SOIL
llection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
CB (SUR)	-	65	150	50		12/12/00
TAL SOLIDS	EPA 160.3	97.46	%	0.01	12/04/00KDH	

mple ID: BUFF-I-21D Sample Matrix: SOIL
llection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
CB (SUR)	-	57	150	50		12/12/00
TAL SOLIDS	EPA 160.3	97.30	%	0.01	12/04/00KDH	

mple ID: BUFF-I-22D Sample Matrix: SOIL
llection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/12/00
1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB (SUR)	-	74	150	50		12/12/00
TAL SOLIDS	EPA 160.3	96.68	%	0.01	12/04/00KDH	

mple ID: BUFF-I-23D Sample Matrix: SOIL
llection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
CB (SUR)	-	81	150	50		12/12/00
TAL SOLIDS	EPA 160.3	97.33	%	0.01	12/04/00KDH	

mple ID: BUFF-I-24D Sample Matrix: SOIL
llection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB (SUR)	-	72	150	50		12/12/00
TAL SOLIDS	EPA 160.3	95.95	%	0.01	12/04/00KDH	

mple ID: BUFF-I-25D Sample Matrix: SOIL
llection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
CB (SUR)	-	80	150	50		12/12/00
TAL SOLIDS	EPA 160.3	98.31	%	0.01	12/04/00KDH	

=NONE DETECTED
L=PRACTICAL QUANTITATION LIMIT
=STANDARD UNITS
ACKGROUND CONTAMINATION
R=SURROGATE
OUTSIDE LIMITS
DETECTED IN METHOD BLANK

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

Terracon
13910 [illegible] 96th Terrace
Lenexa, Kansas 66216
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-16 (D)	11/30/00	1200	Soil		X	1	X	OK to Run
Buff-I-17 (D)		1205	Soil		X	1	X	
Buff-I-18 (D)		1210	Soil		X	1	X	
Buff-I-19 (D)		1215	Soil		X	1	X	
Buff-I-20 (D)		1230	Soil		X	1	X	
Buff-I-21 (D)		1235	Soil		X	1	X	
Buff-I-22 (D)		1240	Soil		X	1	X	
Buff-I-23 (D)		1245	Soil		X	1	X	
Buff-I-24 (D)		1250	Soil		X	1	X	
Buff-I-25 (D)		1255	Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48-Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000019

000205

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Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

0012077

SPECIAL INSTRUCTIONS: Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK

PROJECT NUMBER: 5000 1055

SAMPLER (SIGNATURE): Jason R. Franks

RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA metals 6000/7000	REMARKS
Buff-I-1 (c)	11/30/00	1000	Soil		X	1	X			OK to Run
Buff-I-2 (c)		1010	Soil		X	1	X			
Buff-I-3 (c)		1015	Soil		X	1	X			
Buff-I-4 (c)		1020	Soil		X	1	X			
Buff-I-5 (c)		1030	Soil		X	1	X			
Buff-I-6 (c)		1035	Soil		X	1	X			
Buff-I-7 (c)		1045	Soil		X	1	X			
Buff-I-8 (c)		1055	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metal
Buff-I-9 (c)		1100	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metal
Buff-I-10 (c)		1110	Soil		X	1	X			OK to Run
Buff-I-11 (c)		1115	Soil		X	1	X			OK to Run
Buff-I-12 (c)		1120	Soil		X	1	X			OK to Run
Buff-I-13 (c)		1135	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metal
Buff-I-14 (c)		1150	Soil		X	3	X	X	X	OK to Run All
Buff-I-15 (c)		1155	Soil		X	1	X			OK to Run

SHIPPING VIA: Federal Express

SHIPPING NO.: 1127 5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XXX 48-Hour — STANDARD 72 hour TAT — OTHER

PROVIDE VERBAL PRELIMINARY RESULTS — FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000206

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CHAIN OF CUSTODY / LABORAT / ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): [illegible]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	COOL	# of Containers	PCB's by EPA 8082	SVOC'S	Metals	REMARKS
Buff-T-16 (c)	11/30/00	1200	Soil	X	1	X			OK TO RUN
Buff-T-17 (c)		1205	Soil	X	1	X			OK TO RUN
Buff-T-18 (c)		1210	Soil	X	3	X	X	X	Run PCB's/Hold SVOCs/metals
Buff-T-19 (c)		1215	Soil	X	3	X	X	X	Run PCB's/Hold SVOC's/metals
Buff-T-20 (c)		1230	Soil	X	1	X			OK TO RUN
Buff-T-21 (c)		1235	Soil	X	1	X			
Buff-T-22 (c)		1240	Soil	X	1	X			
Buff-T-23 (c)		1245	Soil	X	1	X			
Buff-T-24 (c)		1250	Soil	X	1	X			
Buff-T-25 (c)		1255	Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48 Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Tony Poulter	[illegible]	12/2/00	11:40
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
Terracon			
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000021

00207

Terracon
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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS: Bill to WGPSC - Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK

PROJECT NUMBER: 50000-7055

SAMPLER (SIGNATURE): Jason K. Franklin

RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-1 (D)	11/30/00	1000	Soil		X	1	X	OK to Run
Buff-I-2 (D)		1010	Soil		X	1	X	
Buff-I-3 (D)		1015	Soil		X	1	X	
Buff-I-4 (D)		1020	Soil		X	1	X	
Buff-I-5 (D)		1030	Soil		X	1	X	
Buff-I-6 (D)		1035	Soil		X	1	X	
Buff-I-7 (D)		1045	Soil		X	1	X	
Buff-I-8 (D)		1055	Soil		X	1	X	
Buff-I-9 (D)		1100	Soil		X	1	X	
Buff-I-10 (D)		1110	Soil		X	1	X	
Buff-I-11 (D)		1115	Soil		X	1	X	
Buff-I-12 (D)		1120	Soil		X	1	X	
Buff-I-13 (D)		1135	Soil		X	1	X	
Buff-I-14 (D)		1150	Soil		X	1	X	
Buff-I-15 (D)		1155	Soil		X	1	X	

SHIPPING VIA: Federal Express

SHIPPING NO.: 1127-5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XXX 48 Hour — STANDARD 72 hour TAT — OTHER

PROVIDE VERBAL PRELIMINARY RESULTS — FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Tony Poulter	[illegible]	12/2/00	11:10
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
Terracon			
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

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Quality Control Report

TE. ACON
0012077

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1221	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1232	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1242	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1248	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1254	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1260	8082		GC/ECD	12/13/00		soil	ug/kg
DCB (Surr)	8082		GC/ECD	12/13/00		soil	ug/kg
Acenapthene	8270		GC/MS	12/13/00		solid	ug/kg
Acenaphthylene	8270		GC/MS	12/13/00		solid	ug/kg
Anthracene	8270		GC/MS	12/13/00		solid	ug/kg
Benzidine	8270		GC/MS	12/13/00		solid	ug/kg
Benzo(a)anthracene	8270		GC/MS	12/13/00		solid	ug/kg
Benzo(b)fluoranthene	8270		GC/MS	12/13/00		solid	ug/kg
Benzo(k)fluoranthene	8270		GC/MS	12/13/00		solid	ug/kg
Benzoic Acid	8270		GC/MS	12/13/00		solid	ug/kg
Benzo(g,h,i)perylene	8270		GC/MS	12/13/00		solid	ug/kg
Benzo(a)pyrene	8270		GC/MS	12/13/00		solid	ug/kg
Benzyl Alcohol	8270		GC/MS	12/13/00		solid	ug/kg
Bis(2-chloroethoxy)methane	8270		GC/MS	12/13/00		solid	ug/kg
Bis(2-chloroethyl)ether	8270		GC/MS	12/13/00		solid	ug/kg
Bis(2-chloroisopropyl)ether	8270		GC/MS	12/13/00		solid	ug/kg
Bis(2-ethylhexyl)phthalate	8270		GC/MS	12/13/00		solid	ug/kg
4-Bromophenyl phenyl ether	8270		GC/MS	12/13/00		solid	ug/kg
Butylbenzylphthalate	8270		GC/MS	12/13/00		solid	ug/kg
4-Chloroaniline	8270		GC/MS	12/13/00		solid	ug/kg
4-Chloro-3-methylphenol	8270		GC/MS	12/13/00		solid	ug/kg
2-Chloronaphthalene	8270		GC/MS	12/13/00		solid	ug/kg
2-Chlorophenol	8270		GC/MS	12/13/00		solid	ug/kg
4-Chlorophenylphenylether	8270		GC/MS	12/13/00		solid	ug/kg
Chrysene	8270		GC/MS	12/13/00		solid	ug/kg
Dibenzo(a,h)anthracene	8270		GC/MS	12/13/00		solid	ug/kg
Dibenzofuran	8270		GC/MS	12/13/00		solid	ug/kg
1,2-Dichlorobenzene	8270		GC/MS	12/13/00		solid	ug/kg
1,3-Dichlorobenzene	8270		GC/MS	12/13/00		solid	ug/kg

000209

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
1,4-Dichlorobenzene	8270		GC/MS	12/13/00		solid	ug/kg
3,3'-Dichlorobenzidine	8270		GC/MS	12/13/00		solid	ug/kg
2,4-Dichlorophenol	8270		GC/MS	12/13/00		solid	ug/kg
Diethyl phthalate	8270		GC/MS	12/13/00		solid	ug/kg
2,4-Dimethylphenol	8270		GC/MS	12/13/00		solid	ug/kg
Dimethylphathalate	8270		GC/MS	12/13/00		solid	ug/kg
4,6-Dinitro-2-Methylphenol	8270		GC/MS	12/13/00		solid	ug/kg
Di-n-butylphthalate	8270		GC/MS	12/13/00		solid	ug/kg
2,4-Dinitrophenol	8270		GC/MS	12/13/00		solid	ug/kg
2,4-Dinitrotoluene	8270		GC/MS	12/13/00		solid	ug/kg
2,6-Dinitrotoluene	8270		GC/MS	12/13/00		solid	ug/kg
Di-n-Octylphthalate	8270		GC/MS	12/13/00		solid	ug/kg
1,2-Diphenyl Hydrazine	8270		GC/MS	12/13/00		solid	ug/kg
Fluoranthene	8270		GC/MS	12/13/00		solid	ug/kg
Fluorene	8270		GC/MS	12/13/00		solid	ug/kg
Hexachlorobenzene	8270		GC/MS	12/13/00		solid	ug/kg
Hexachlorobutadiene	8270		GC/MS	12/13/00		solid	ug/kg
Hexachlorocyclopentadiene	8270		GC/MS	12/13/00		solid	ug/kg
Hexachloroethane	8270		GC/MS	12/13/00		solid	ug/kg
Indeno(1,2,3-cd)pyrene	8270		GC/MS	12/13/00		solid	ug/kg
Isophorone	8270		GC/MS	12/13/00		solid	ug/kg
2-Methylnaphthalene	8270		GC/MS	12/13/00		solid	ug/kg
2-Methylphenol	8270		GC/MS	12/13/00		solid	ug/kg
4-Methylphenol	8270		GC/MS	12/13/00		solid	ug/kg
Naphthalene	8270		GC/MS	12/13/00		solid	ug/kg
2-Nitroaniline	8270		GC/MS	12/13/00		solid	ug/kg
3-Nitroaniline	8270		GC/MS	12/13/00		solid	ug/kg
4-Nitroaniline	8270		GC/MS	12/13/00		solid	ug/kg
Nitrobenzene	8270		GC/MS	12/13/00		solid	ug/kg
2-Nitrophenol	8270		GC/MS	12/13/00		solid	ug/kg
4-Nitrophenol	8270		GC/MS	12/13/00		solid	ug/kg
N-Nitroso-di-n-propylamine	8270		GC/MS	12/13/00		solid	ug/kg
N-Nitrosodiphenylamine(1)	8270		GC/MS	12/13/00		solid	ug/kg
N-Nitrosodimethylamine	8270		GC/MS	12/13/00		solid	ug/kg
Pentachlorophenol	8270		GC/MS	12/13/00		solid	ug/kg
Phenathrene	8270		GC/MS	12/13/00		solid	ug/kg
Phenol	8270		GC/MS	12/13/00		solid	ug/kg

000210

TERRACON
0012077

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Pyrene	8270		GC/MS	12/13/00		solid	ug/kg
1,2,4-Trichlorobenzene	8270		GC/MS	12/13/00		solid	ug/kg
2,4,5-Trichlorophenol	8270		GC/MS	12/13/00		solid	ug/kg
2,4,6-Trichlorophenol	8270		GC/MS	12/13/00		solid	ug/kg
2-Fluorobiphenyl (sur)	8270		GC/MS	12/13/00		solid	ug/kg
Nitrobenzene-d8 (sur)	8270		GC/MS	12/13/00		solid	ug/kg
2-Fluorophenol (sur)	8270		GC/MS	12/13/00		solid	ug/kg
2,4,6-Tribromophenol (sur)	8270		GC/MS	12/13/00		solid	ug/kg
Terphenyl-d14 (sur)	8270		GC/MS	12/13/00		solid	ug/kg
Phenol-d5 (sur)	8270		GC/MS	12/13/00		solid	ug/kg

000211

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				2030	66.7	2040	15 *	1910	-180 *	7	66.4	66.7	100
PCB-1260	ND											ND		
DCB (Surr)	6.93				7.8	6.66	6.74	99	5.99	88	12	7.7	6.66	116
Acenaphthene	ND				ND	3333	2450	74	2380	71	3	1640	3333.3	49
Acenaphthylene	ND				ND							1740	3333.3	52
Anthracene	ND				ND							2410	3333.3	72
Benzidine	ND				ND									
Benzo(a)anthracene	ND				ND							2560	3333.3	77
Benzo(b)fluoranthene	ND				ND							2550	3333.3	77
Benzo(k)fluoranthene	ND				ND							2730	3333.3	82
Benzoic Acid	ND				ND									
Benzo(g,h,i)perylene	ND				ND							2860	3333.3	86
Benzo(a)pyrene	ND				ND							2760	3333.3	83
Benzyl Alcohol	ND				ND							1480	3333.3	44
Bis(2-chloroethoxy)methane	ND				ND							1630	3333.3	49
Bis(2-chloroethyl)ether	ND				ND							1520	3333.3	46
Bis(2-chloroisopropyl)ether	ND				ND							1460	3333.3	44
Bis(2-ethylhexyl)phthalate	ND				ND							2770	3333.3	83
4-Bromophenyl phenyl ether	ND				ND							1970	3333.3	59
Butylbenzylphthalate	ND				ND							2610	3333.3	78
4-Chloroaniline	ND				ND							1520	3333.3	46
4-Chloro-3-methylphenol	ND				ND	6666.7	3520	53	3590	54	2	1650	3333.3	50
2-Chloronaphthalene	ND				ND							1390	3333.3	42
2-Chlorophenol	ND				ND	6666.7	3670	55	3850	58	5	1400	3333.3	42
4-Chlorophenylphenylether	ND				ND							1970	3333.3	59
Chrysene	ND				ND							2630	3333.3	79
Dibenzo(a,h)anthracene	ND				ND							3030	3333.3	91
Dibenzofuran	ND				ND							2100	3333.3	63
1,2-Dichlorobenzene	ND				ND							1350	3333.3	41
1,3-Dichlorobenzene	ND				ND							1360	3333.3	41

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Quality Control Report

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0012077

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
1,4-Dichlorobenzene	ND				ND	3333.3	1680	50	1850	56	10	1300	3333.3	39
3,3'-Dichlorobenzidine	ND				ND							2260	3333.3	68
2,4-Dichlorophenol	ND				ND							1450	3333.3	44
Diethyl phthalate	ND				ND							2510	3333.3	75
2,4-Dimethylphenol	ND				ND							1530	3333.3	46
Dimethylphathalate	ND				ND							2310	3333.3	69
4,6-Dinitro-2-Methylphenol	ND				ND							2180	3333.3	65
Di-n-butylphthalate	ND				ND	3333.3	3360	101	3600	108	7	2430	3333.3	73
2,4-Dinitrophenol	ND				ND							2750	3333.3	83
2,4-Dinitrotoluene	ND				ND	3333.3	3370	101	3290	99	2	2670	3333.3	80
2,6-Dinitrotoluene	ND				ND							2070	3333.3	6[illegible]
Di-n-Octylphthalate	ND				ND							2810	3333.3	84
1,2-Diphenyl Hydrazine	ND				ND							1870	3333.3	56
Fluoranthene	ND				ND							2310	3333.3	69
Fluorene	ND				ND							2030	3333.3	61
Hexachlorobenzene	ND				ND							2170	3333.3	65
Hexachlorobutadiene	ND				ND							1320	3333.3	40
Hexachlorocyclopentadiene	ND				ND							906	3333.0	27
Hexachloroethane	ND				ND							1210	3333.3	36
Indeno(1,2,3-cd)pyrene	ND				ND							2930	3333.3	88
Isophorone	ND				ND							1790	3333.3	54
2-Methylnaphthalene	ND				ND							1670	3333.3	50
2-Methylphenol	ND				ND							1550	3333.3	47
4-Methylphenol	ND				ND							1720	3333.3	52
Naphthalene	ND				ND							1440	3333.3	43
2-Nitroaniline	ND				ND							2250	3333.3	68
3-Nitroaniline	ND				ND							2710	3333.3	8[illegible]
4-Nitroaniline	ND				ND							2840	3333.3	85
Nitrobenzene	ND				ND							1480	3333.3	44
2-Nitrophenol	ND				ND							1630	3333.3	49
4-Nitrophenol	ND				ND	6666.7	1600	24	1650	25	3	2220	3333.3	67
N-Nitroso-di-n-propylamine	ND				ND	3333.3	2250	68	2300	69	2	1510	3333.3	45
N-Nitrosodiphenylamine(1)	ND				ND							967	3333.3	29
N-Nitrosodimethylamine	ND				ND							1490	3333.3	45
Pentachlorophenol	ND				ND	6666.7	6780	102	7480	112	10	2430	3333.3	73
Phenanthrene	ND				ND							2370	3333.3	71
Phenol	ND				ND	6666.7	3120	47	3180	48	2	1460	3333.3	44

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Quality Control Report

TERRACON

0012077

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
Pyrene	ND				ND	3333.3	4090	123	4630	139	12	2660	3333.3	80
1,2,4-Trichlorobenzene	ND				ND	3333.3	1860	56	2080	62	11	1420	3333.3	43
2,4,5-Trichlorophenol	ND				ND							1980	3333.3	59
2,4,6-Trichlorophenol	ND				ND							1540	3333.3	46
2-Fluorobiphenyl (sur)	1690				1760	3333.3	1270	38	1260	38	1	1250	3333.3	38
Nitrobenzene-d8 (sur)	1460				1730	3333.3	1290	39	1450	44	12	990	3333.3	30
2-Fluorophenol (sur)	1430				1530	3333.3	1140	34	1260	38	10	380	3333.3	11
2,4,6-Tribromophenol (sur)	1760				2380	3333.3	2140	64	2070	62	3	2300	3333.3	69
Terphenyl-d14 (sur)	2130				2500	3333.3	2400	72	2620	79	9	2400	3333.3	72
Phenol-d5 (sur)	1270				1420	3333.3	1320	40	1360	41	3	1040	3333.3	31

000214

QWAL Laboratories, Inc.
Qualit ntrol Report
TERRACON
0012077

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000215

Quality Control Report

TERRACON

0012077

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	86.4	86.3	0.1								316	302	105

000216

Quality Control Report

TERRACON
0012077

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Mercury, Total	Hg7471		CVAA	12/05/00		soil	mg/kg
Silver, Total	Ag6010		ICP	12/08/00		water	mg/L
Arsenic, Total	As6010		ICP	12/08/00		water	mg/L
Barium, Total	Ba6010		ICP	12/08/00		water	mg/L
Cadmium, Total	Cd6010		ICP	12/08/00		water	mg/L
Chromium, Total	Cr6010		ICP	12/08/00		water	mg/L
Lead, Total	Pb6010		ICP	12/08/00		water	mg/L
Selenium, Total	Se6010		ICP	12/08/00		water	mg/L

000217

Quality Control Report

TERRACON

0012077

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Mercury, Total	ND	ND	ND	0	0.05	0.10	0.15	99	0.16	103	3	0.20	0.20	100
Silver, Total	ND				ND	1.00	0.98	98	0.96	96	2	1.01	1.00	101
Arsenic, Total	ND				0.04	1.00	0.98	94	0.98	94	0	0.98	1.00	98
Barium, Total	ND				2.90	1.00	2.40	-50 *	2.28	-62	5	1.03	1.00	103
Cadmium, Total	ND				0.01	1.00	0.91	90	0.93	92	2	1.00	1.00	100
Chromium, Total	ND				0.16	1.00	1.08	92	1.07	91	1	1.00	1.00	100
Lead, Total	ND				0.64	1.00	1.86	122	1.98	134	6	1.00	1.00	100
Selenium, Total	ND				ND	1.00	0.91	91	0.89	89	2	0.95	1.00	95

000218

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials:

000219

QWA LABORATORIES, IN

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

ɔC ORY REPORT: REFERENCE #: 0012078

IT TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED: 12/18/00
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

JECT:WCPSC-BUFFALO OK PART 5

ple ID: BUFFI-12CD Sample Matrix: SOIL
lection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1254	11097-69-1	5850	UG/KG	18	12/13/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
B (SUR)	-	82	150	50		12/12/00
AL SOLIDS	EPA 160.3	94.77	%	0.01	12/06/00KDH	

ple ID: BUFFI-13BD Sample Matrix: SOIL
lection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1254	11097-69-1	73	UG/KG	18	12/13/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
3 (SUR)	-	72	150	50		12/12/00
AL SOLIDS	EPA 160.3	94.26	%	0.01	12/06/00KDH	

mple ID: BUFFI-13CD Sample Matrix: SOIL
llection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	15700D	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB (SUR)	-	97	150	50		12/12/00
TAL SOLIDS	EPA 160.3	94.14	%	0.01	12/06/00KDH	

nple ID: BUFFI-13DD Sample Matrix: SOIL
llection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
B'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PC 254	11097-69-1	993D	UG/KG	18	12/13/00JSS	12/12/00
PC 260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB (SUR)	-	100	150	50		12/12/00
AL SOLIDS	EPA 160.3	94.06	%	0.01	12/06/00KDH	

ple ID: BUFFI-13ED Sample Matrix: SOIL
lection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFFI-14BD Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00

ple ID: BUFFI-14BD Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
B (SUR)	-	87	150	50		12/12/00
AL SOLIDS	EPA 160.3	92.40	%	0.01	12/06/00KDH	

ple ID: BUFFI-14CD Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1254	11097-69-1	560	UG/KG	18	12/13/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
B (SUR)	-	83	150	50		12/12/00
AL SOLIDS	EPA 160.3	93.44	%	0.01	12/06/00KDH	

p D: BUFFI-14DD Sample Matrix: SOIL
le ion Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1254	11097-69-1	6170	UG/KG	18	12/13/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
B (SUR)	-	96	150	50		12/12/00
AL SOLIDS	EPA 160.3	95.43	%	0.01	12/06/00KDH	

ple ID: BUFFI-14ED Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFFI-14FD Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFFAR-5AD Sample Matrix: SOIL
lection Date: 11/30/00 15:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
'S	SW846 8082					
CB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
CB-1254	11097-69-1	5470D	UG/KG	18	12/13/00JSS	12/12/00
CB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
B (SUR)	-	51	150	50		12/12/00
AL SOLIDS	EPA 160.3	95.26	%	0.01	12/06/00KDH	

ple ID: BUFFAR-5BD Sample Matrix: SOIL
lection Date: 11/30/00 15:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-7E Sample Matrix: SOIL
lection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-12E Sample Matrix: SOIL
lection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-13E Sample Matrix: SOIL
lection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-14E Sample Matrix: SOIL
lection Date: 11/30/00 11:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-17E Sample Matrix: SOIL
lection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-18E Sample Matrix: SOIL
lection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE	NONE		DLB	12/14/00

ple ID: BUFF-I-19E Sample Matrix: SOIL
lection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE			DLB	12/14/00

ple ID: BUFF-I-14F Sample Matrix: SOIL
lection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
RACTION	NONE	DONE			DLB	12/14/00

mple ID: BUFF-I-17F Sample Matrix: SOIL
llection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
TRACTION	NONE	DONE			DLB	12/14/00

mple ID: BUFF-I-7F Sample Matrix: SOIL
llection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
TRACTION	NONE	DONE			DLB	12/14/00

mple ID: BUFF-I-14G Sample Matrix: SOIL
llection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
TRACTION	NONE	DONE			DLB	12/14/00

mple ID: BUFF-I-14H Sample Matrix: SOIL
llection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
TI ION	NONE	DONE			DLB	12/14/00

=NONE DETECTED
L=PRACTICAL QUANTITATION LIMIT
=STANDARD UNITS
ACKGROUND CONTAMINATION
R=SURROGATE
OUTSIDE LIMITS
DETECTED IN METHOD BLANK

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

Quali[illegible]ntrol Report

TERRACON ENVIRONMENTAL

0012078

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1221	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1232	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1242	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1248	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1254	8082		GC/ECD	12/13/00		soil	ug/kg
PCB-1260	8082		GC/ECD	12/13/00		soil	ug/kg
DCB (Surr)	8082		GC/ECD	12/13/00		soil	ug/kg

000226

Quali[illegible]ontrol Report

TERRACON ENVIRONMENTAL

0012078

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				ND	66.7	46.7	70	51.5	77	10	50.5	66.67	76
PCB-1260	ND											ND		
DCB (Surr)	3.93				4.00	6.66	3.64	53	3.88	57	6	3.66	6.66	55

000227

QWAL Laboratories, Inc.

Qual ontrol Report

TERRACON ENVIRONMENTAL

0012078

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/06/00		water	%

000228

QWAL Laboratories, Inc.
Quality Control Report
TERRACON ENVIRONMENTAL
0012078

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	88.9	88.8	0.1								292	302	97

000229

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials: [illegible]

000230

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: REFERENCE #: 0102687

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
JOHN ROCKHOLD

DATE REPORTED: 03/09/01
DATE COLLECTED: 11/30/00
DATE RECEIVED: 02/28/01
P.O. #:

PROJECT: BUFFALO

Sample ID: BUFF-I-8C
Collection Date: 11/30/00 10:55:00

Sample Matrix: SOIL

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
SEMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	620	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	620	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	620	03/08/01JSS	03/06/01
BENZIDINE	92-87-5	ND	UG/KG	3100	03/08/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	620	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	620	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	620	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	3100	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	620	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	620	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	1200	03/08/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	620	03/08/01JSS	03/06/01
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	620	03/08/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	620	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	620	03/08/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	620	03/08/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	620	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	1200	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	1200	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	620	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	620	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	620	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	620	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	620	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	620	03/08/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	2770	UG/KG	620	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	620	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	748	UG/KG	620	03/08/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	1200	03/08/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	620	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	620	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	620	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	620	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	620	03/08/01JSS	03/06/01

Sample ID: BUFF-I-8C Sample Matrix: SOIL
Collection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	620	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	1200	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	1200	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	620	03/08/01JSS	03/06/01
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	620	03/08/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	620	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	620	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	620	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	620	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	620	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	620	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	620	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	620	03/08/01JSS	03/06/01
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	620	03/08/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	620	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	620	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	620	03/08/01JSS	03/06/01
NAPHTHALENE	91-20-3	ND	UG/KG	620	03/08/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	3100	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	3100	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	3100	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	620	03/08/01JSS	03/06/01
2 ITROPHENOL	88-75-5	ND	UG/KG	620	03/08/01JSS	03/06/01
.TROPHENOL	100-02-7	ND	UG/KG	3100	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	620	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	620	03/08/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	620	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	3100	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	620	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	620	03/08/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	620	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	620	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	620	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	620	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	15	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	15	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	11	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	9 Q	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	30	150	10		03/06/01
PHENOL-D5 (SUR)	-	9 Q	150	10		03/06/01
LP PACKAGE		DONE	STD UN			
OTAL SOLIDS	EPA 160.3	96.54	%	0.01	03/01/01KS	

000232

Sample ID: BUFF-I-9C Sample Matrix: SOIL
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
SEMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	340	03/07/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	340	03/07/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	340	03/07/01JSS	03/06/01
BENZIDINE	92-87-5	ND	UG/KG	1700	03/07/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	340	03/07/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	340	03/07/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	340	03/07/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	1700	03/07/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	340	03/07/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	340	03/07/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	670	03/07/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	340	03/07/01JSS	03/06/01
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	340	03/07/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	340	03/07/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	340	03/07/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	340	03/07/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	340	03/07/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	670	03/07/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	670	03/07/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	340	03/07/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	340	03/07/01JSS	03/06/01
HLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	340	03/07/01JSS	03/06/01
YSENE	218-01-9	ND	UG/KG	340	03/07/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	340	03/07/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	340	03/07/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	340	03/07/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	340	03/07/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	340	03/07/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	670	03/07/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	340	03/07/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	340	03/07/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	340	03/07/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	340	03/07/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	340	03/07/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	340	03/07/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	670	03/07/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	670	03/07/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	340	03/07/01JSS	03/06/01
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	340	03/07/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	340	03/07/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	340	03/07/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	340	03/07/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	340	03/07/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	340	03/07/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	340	03/07/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	340	03/07/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	340	03/07/01JSS	03/06/01

Sample ID: BUFF-I-9C Sample Matrix: SOIL
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	340	03/07/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	340	03/07/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	340	03/07/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	340	03/07/01JSS	03/06/01
NAPHTHALENE	91-20-3	ND	UG/KG	340	03/07/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	1700	03/07/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	1700	03/07/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	1700	03/07/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	340	03/07/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	340	03/07/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	1700	03/07/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	340	03/07/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	340	03/07/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	340	03/07/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	1700	03/07/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	340	03/07/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	340	03/07/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	340	03/07/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	340	03/07/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	340	03/07/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	340	03/07/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	47	150	10		03/06/01
[illegible]OBENZENE-D5 (SUR)	-	69	150	10		03/06/01
[illegible]UOROPHENOL (SUR)	-	44	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	22	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	61	150	10		03/06/01
PHENOL-D5 (SUR)	-	35	150	10		03/06/01
TOTAL SOLIDS	EPA 160.3	98.98	%	0.01	03/01/01KS	

Sample ID: BUFF-I-13C Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
SEMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	600	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	600	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	600	03/08/01JSS	03/06/01
BENZIDINE	92-87-5	ND	UG/KG	3000	03/08/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	600	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	600	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	600	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	3000	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	600	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	600	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	1200	03/08/01JSS	03/06/01
[illegible](2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	600	03/08/01JSS	03/06/01

Sample ID: BUFF-I-13C Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	600	03/08/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	600	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	600	03/08/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	600	03/08/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	600	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	1200	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	1200	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	600	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	600	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	600	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	600	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	600	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	600	03/08/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	600	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	600	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	600	03/08/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	1200	03/08/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	600	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	600	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	600	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	600	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	600	03/08/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	600	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	1200	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	1200	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	600	03/08/01JSS	03/06/01
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	600	03/08/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	600	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	600	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	600	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	600	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	600	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	600	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	600	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	600	03/08/01JSS	03/06/01
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	600	03/08/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	600	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	600	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	600	03/08/01JSS	03/06/01
NAPHTHALENE	91-20-3	ND	UG/KG	600	03/08/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	3000	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	3000	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	3000	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	600	03/08/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	600	03/08/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	3000	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	600	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	600	03/08/01JSS	03/06/01

Sample ID: BUFF-I-13C Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	600	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	3000	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	600	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	600	03/08/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	600	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	600	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	600	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	600	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	16	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	11	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	10	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	7 Q	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	22	150	10		03/06/01
PHENOL-D5 (SUR)	-	5 Q	150	10		03/06/01
OTAL SOLIDS	EPA 160.3	97.44	%	0.01	03/01/01KS	

ample ID: BUFF-I-18C Sample Matrix: SOIL
ollection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EM OLATILES	SW 846 8270B					
APTHENE	83-32-9	ND	UG/KG	340	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	340	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	340	03/08/01JSS	03/06/01
BENZIDINE	92-87-5	ND	UG/KG	1700	03/08/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	340	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	340	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	340	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	1700	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	340	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	340	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	680	03/08/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	340	03/08/01JSS	03/06/01
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	340	03/08/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	340	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	340	03/08/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	340	03/08/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	340	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	680	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	680	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	340	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	340	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	340	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	340	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	340	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	340	03/08/01JSS	03/06/01

Sample ID: BUFF-I-18C Sample Matrix: SOIL
Collection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	340	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	340	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	340	03/08/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	680	03/08/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	340	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	340	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	340	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	340	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	340	03/08/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	340	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	680	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	680	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	340	03/08/01JSS	03/06/01
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	340	03/08/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	340	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	340	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	340	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	340	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	340	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	340	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	340	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	340	03/08/01JSS	03/06/01
ENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	340	03/08/01JSS	03/06/01
METHYLNAPHTHALENE	91-57-6	ND	UG/KG	340	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	340	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	340	03/08/01JSS	03/06/01
NAPHTHALENE	91-20-3	ND	UG/KG	340	03/08/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	1700	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	1700	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	1700	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	340	03/08/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	340	03/08/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	1700	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	340	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	340	03/08/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	340	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	1700	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	340	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	340	03/08/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	340	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	340	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	340	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	340	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	32	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	28	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	35	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	19	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	56	150	10		03/06/01

Sample ID: BUFF-I-18C Sample Matrix: SOIL
Collection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PHENOL-D5 (SUR)	-	29	150	10		03/06/01
TOTAL SOLIDS	EPA 160.3	98.78	%	0.01	03/01/01KS	

Sample ID: BUFF-I-19C Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
SEMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	350	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	350	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZIDINE	92-87-5	ND	UG/KG	1700	03/08/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	1700	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	690	03/08/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	350	03/08/01JSS	03/06/01
(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	350	03/08/01JSS	03/06/01
(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	350	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	350	03/08/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	350	03/08/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	350	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	690	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	690	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	350	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	350	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	350	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	350	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	350	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	350	03/08/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	350	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	350	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	350	03/08/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	690	03/08/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	350	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	350	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	350	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	350	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	350	03/08/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	350	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	690	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	690	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	350	03/08/01JSS	03/06/01

Sample ID: BUFF-I-19C Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	350	03/08/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	350	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	350	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	350	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	350	03/08/01JSS	03/06/01
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	350	03/08/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	350	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	350	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	350	03/08/01JSS	03/06/01
NAPHTHALENE	91-20-3	ND	UG/KG	350	03/08/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	1700	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	1700	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	1700	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	350	03/08/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	350	03/08/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	1700	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	350	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	350	03/08/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	350	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	1700	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	350	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	350	03/08/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	350	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	350	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	350	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	350	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	40	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	16	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	38	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	19	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	73	150	10		03/06/01
PHENOL-D5 (SUR)	-	35	150	10		03/06/01
TOTAL SOLIDS	EPA 160.3	96.19	%	0.01	03/01/01KS	

Sample ID: BUFF-I-10B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
SEMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	350	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	350	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	350	03/08/01JSS	03/06/01

Sample ID: BUFF-I-10B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BENZIDINE	92-87-5	ND	UG/KG	1800	03/08/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	1800	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	350	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	710	03/08/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	350	03/08/01JSS	03/06/01
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	350	03/08/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	350	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	350	03/08/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	350	03/08/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	350	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	710	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	710	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	350	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	350	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	350	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	350	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	350	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	350	03/08/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	350	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	350	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	350	03/08/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	710	03/08/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	350	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	350	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	350	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	350	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	350	03/08/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	350	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	710	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	710	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	350	03/08/01JSS	03/06/01
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	350	03/08/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	350	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	350	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	350	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	350	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	350	03/08/01JSS	03/06/01
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	350	03/08/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	350	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	350	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	350	03/08/01JSS	03/06/01

Sample ID: BUFF-I-10B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
NAPHTHALENE	91-20-3	ND	UG/KG	350	03/08/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	1800	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	1800	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	1800	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	350	03/08/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	350	03/08/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	1800	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	350	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	350	03/08/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	350	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	1800	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	350	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	350	03/08/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	350	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	350	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	350	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	350	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	60	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	42	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	40	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	24	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	75	150	10		03/06/01
F OL-D5 (SUR)	-	38	150	10		03/06/01
C SOLIDS	EPA 160.3	94.13	%	0.01	03/01/01KS	

Sample ID: BUFF-I-15B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	360	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	360	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	360	03/08/01JSS	03/06/01
BENZIDINE	92-87-5	ND	UG/KG	1800	03/08/01JSS	03/06/01
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	360	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	360	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	360	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	1800	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	360	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	360	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	720	03/08/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	360	03/08/01JSS	03/06/01
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	360	03/08/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	360	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	360	03/08/01JSS	03/06/01
ROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	360	03/08/01JSS	03/06/01

Sample ID: BUFF-I-15B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	360	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	720	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	720	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	360	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	360	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	360	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	360	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	360	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	360	03/08/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	360	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	360	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	360	03/08/01JSS	03/06/01
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	720	03/08/01JSS	03/06/01
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	360	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	360	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	360	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	360	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	360	03/08/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	360	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	720	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	720	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	360	03/08/01JSS	03/06/01
-DINITROTOLUENE	606-20-2	ND	UG/KG	360	03/08/01JSS	03/06/01
N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	360	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	360	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	360	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	360	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	360	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	360	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	360	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	360	03/08/01JSS	03/06/01
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	360	03/08/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	360	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	360	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	360	03/08/01JSS	03/06/01
NAPHTHALENE	91-20-3	ND	UG/KG	360	03/08/01JSS	03/06/01
2-NITROANILINE	88-74-4	ND	UG/KG	1800	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	1800	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	1800	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	360	03/08/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	360	03/08/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	1800	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	360	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	360	03/08/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	360	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	1800	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	360	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	360	03/08/01JSS	03/06/01

Sample ID: BUFF-I-15B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PYRENE	129-00-0	ND	UG/KG	360	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	360	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	360	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	360	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	65	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	36	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	53	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	17	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	79	150	10		03/06/01
PHENOL-D5 (SUR)	-	45	150	10		03/06/01
TOTAL SOLIDS	EPA 160.3	92.50	%	0.01	03/01/01KS	

Sample ID: BUFF-I-20B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	370	03/08/01JSS	03/06/01
ACENAPHTHYLENE	208-96-8	ND	UG/KG	370	03/08/01JSS	03/06/01
ANTHRACENE	120-12-7	ND	UG/KG	370	03/08/01JSS	03/06/01
P[illegible]ZIDINE	92-87-5	ND	UG/KG	1800	03/08/01JSS	03/06/01
[illegible]O(A)ANTHRACENE	56-55-3	ND	UG/KG	370	03/08/01JSS	03/06/01
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	370	03/08/01JSS	03/06/01
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	370	03/08/01JSS	03/06/01
BENZOIC ACID	65-85-0	ND	UG/KG	1800	03/08/01JSS	03/06/01
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	370	03/08/01JSS	03/06/01
BENZO(A)PYRENE	191-24-2	ND	UG/KG	370	03/08/01JSS	03/06/01
BENZYL ALCOHOL	100-51-6	ND	UG/KG	730	03/08/01JSS	03/06/01
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	370	03/08/01JSS	03/06/01
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	370	03/08/01JSS	03/06/01
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	370	03/08/01JSS	03/06/01
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	370	03/08/01JSS	03/06/01
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	370	03/08/01JSS	03/06/01
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	370	03/08/01JSS	03/06/01
4-CHLOROANILINE	106-47-8	ND	UG/KG	730	03/08/01JSS	03/06/01
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	730	03/08/01JSS	03/06/01
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	370	03/08/01JSS	03/06/01
2-CHLOROPHENOL	95-57-8	ND	UG/KG	370	03/08/01JSS	03/06/01
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	370	03/08/01JSS	03/06/01
CHRYSENE	218-01-9	ND	UG/KG	370	03/08/01JSS	03/06/01
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	370	03/08/01JSS	03/06/01
DIBENZOFURAN	132-64-9	ND	UG/KG	370	03/08/01JSS	03/06/01
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	370	03/08/01JSS	03/06/01
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	370	03/08/01JSS	03/06/01
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	370	03/08/01JSS	03/06/01
3 [illegible]-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	730	03/08/01JSS	03/06/01

Sample ID: BUFF-I-20B Sample Matrix: SOIL
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	370	03/08/01JSS	03/06/01
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	370	03/08/01JSS	03/06/01
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	370	03/08/01JSS	03/06/01
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	370	03/08/01JSS	03/06/01
ISOPHORONE	78-59-1	ND	UG/KG	370	03/08/01JSS	03/06/01
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	370	03/08/01JSS	03/06/01
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	730	03/08/01JSS	03/06/01
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	730	03/08/01JSS	03/06/01
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	370	03/08/01JSS	03/06/01
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	370	03/08/01JSS	03/06/01
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	370	03/08/01JSS	03/06/01
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	370	03/08/01JSS	03/06/01
FLUORANTHENE	206-44-0	ND	UG/KG	370	03/08/01JSS	03/06/01
FLUORENE	86-73-7	ND	UG/KG	370	03/08/01JSS	03/06/01
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	370	03/08/01JSS	03/06/01
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	370	03/08/01JSS	03/06/01
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	370	03/08/01JSS	03/06/01
HEXACHLOROETHANE	67-72-1	ND	UG/KG	370	03/08/01JSS	03/06/01
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	370	03/08/01JSS	03/06/01
2-METHYLNAPHTHALENE	91-57-6	ND	UG/KG	370	03/08/01JSS	03/06/01
2-METHYLPHENOL	95-48-7	ND	UG/KG	370	03/08/01JSS	03/06/01
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	370	03/08/01JSS	03/06/01
[illegible]THALENE	91-20-3	ND	UG/KG	370	03/08/01JSS	03/06/01
[illegible]TROANILINE	88-74-4	ND	UG/KG	1800	03/08/01JSS	03/06/01
3-NITROANILINE	99-09-2	ND	UG/KG	1800	03/08/01JSS	03/06/01
4-NITROANILINE	100-01-6	ND	UG/KG	1800	03/08/01JSS	03/06/01
NITROBENZENE	98-95-3	ND	UG/KG	370	03/08/01JSS	03/06/01
2-NITROPHENOL	88-75-5	ND	UG/KG	370	03/08/01JSS	03/06/01
4-NITROPHENOL	100-02-7	ND	UG/KG	1800	03/08/01JSS	03/06/01
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	370	03/08/01JSS	03/06/01
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	370	03/08/01JSS	03/06/01
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	370	03/08/01JSS	03/06/01
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	1800	03/08/01JSS	03/06/01
PHENATHRENE	85-01-8	ND	UG/KG	370	03/08/01JSS	03/06/01
PHENOL	108-95-2	ND	UG/KG	370	03/08/01JSS	03/06/01
PYRENE	129-00-0	ND	UG/KG	370	03/08/01JSS	03/06/01
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	370	03/08/01JSS	03/06/01
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	370	03/08/01JSS	03/06/01
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	370	03/08/01JSS	03/06/01
2-FLUOROBIPHENYL (SUR)	-	51	150	10		03/06/01
NITROBENZENE-D5 (SUR)	-	36	150	10		03/06/01
2-FLUOROPHENOL (SUR)	-	48	150	10		03/06/01
2,4,6-TRIBROMOPHENOL (SUR)	-	15	150	10		03/06/01
TERPHENYL-D14 (SUR)	-	77	150	10		03/06/01
PHENOL-D5 (SUR)	-	40	150	10		03/06/01
OTAL SOLIDS	EPA 160.3	90.86	%	0.01	03/01/01KS	

Sample ID: BUFF-I-20B
Collection Date: 11/30/00

Sample Matrix: SOIL

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

0012077

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): [signature]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's	metals	REMARKS
Buff-I-16 (c)	11/30/00	1200	Soil		X	1	X			OK TO RUN
Buff-I-17 (c)		1205	Soil		X	1	X			OK TO RUN
Buff-I-18 (c)		1210	Soil		X	3	X	X	X	Run PCB's / Hold SVOCs/metals
Buff-I-19 (c)		1215	Soil		X	3	X	X	X	Run PCB's / Hold SVOC's metals
Buff-I-20 (c)		1230	Soil		X	1	X			OK to Run
Buff-I-21 (c)		1235	Soil		X	1	X			
Buff-I-22 (c)		1240	Soil		X	1	X			
Buff-I-23 (c)		1245	Soil		X	1	X			
Buff-I-24 (c)		1250	Soil		X	1	X			
Buff-I-25 (c)		1255	Soil		X	1	X			
			Soil		X	1	X			
			Soil		X	1	X			
			Soil		X	1	X			
			Soil		X	1	X			
			Soil		X	1	X			

0002246

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature] 12/2/00	SIGNATURE	SIGNATURE 11:40
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

00120 18-10 BUFF-1

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

Terracon
80th Terrace
Kansas 66215
Tel: (913) 492-7777
Fax: (913) 492-7443

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

001207

PROJECT NAME: WGPSC- Buffalo, OK

PROJECT NUMBER: 50007055

SAMPLER (SIGNATURE): Jason R. Franks

RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA metals 6000/7000					REMARKS
Buff-I-1 (c)	11/30/00	1000	Soil		X	1	X							OK to Run
Buff-I-2 (c)		1010	Soil		X	1	X							
Buff-I-3 (c)		1015	Soil		X	1	X							
Buff-I-4 (c)		1020	Soil		X	1	X							
Buff-I-5 (c)		1030	Soil		X	1	X							
Buff-I-6 (c)		1035	Soil		X	1	X							
Buff-I-7 (c)		1045	Soil		X	1	X							
Buff-I-8 (c)		1055	Soil		X	3	X	X	X					Run PCB's Hold SVOCs/metals
Buff-I-9 (c)		1100	Soil		X	3	X	X	X					Run PCB's Hold SVOC's/metal
Buff-I-10 (c)		1110	Soil		X	1	X							OK to Run
Buff-I-11 (c)		1115	Soil		X	1	X							OK to Run
Buff-I-12 (c)		1120	Soil		X	1	X							OK to Run
Buff-I-13 (c)		1135	Soil		X	3	X	X	X					Run PCB's Hold SVOC's/metals
Buff-I-14 (c)		1150	Soil		X	3	X	X	X					OK to Run All
Buff-I-15 (c)		1155	Soil		X	1	X							OK to Run

000247

SHIPPING VIA:	
Federal Express	
SHIPPING NO.: 1127-5857-7	PRIORITY: overnight

LABORATORY PRIORITY

XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER

___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00	SIGNATURE:	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

Terracon
13910 West 96th Terrace
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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOCs by 8270	RCRA Metals 6000/7000						REMARKS
Buff-I-16 (B)	11/30/00	1200	Soil		X	1	X								OK to Run
Buff-I-17 (B)		1205	Soil		X	1	X								
Buff-I-18 (B)		1210	Soil		X	1	X								
Buff-I-19 (B)		1215	Soil		X	1	X								
Buff-I-20 (B)		1230	Soil		X	3	X	X	X						@Run PCB's Hold SVOCs/metals
Buff-I-21 (B)		1235	Soil		X	1	X								
Buff-I-22 (B)		1240	Soil		X	1	X								
Buff-I-23 (B)		1245	Soil		X	1	X								
Buff-I-24 (B)		1250	Soil		X	1	X								
Buff-I-25 (B)		1255	Soil		X	1	X								
			Soil		X	1	X								
			Soil		X	1	X								
			Soil		X	1	X								
			Soil		X	1	X								
			Soil		X	1	X								

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000248

Terracon
13910 West 96th Terrace
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Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA Metals 6000/7000	REMARKS
Buff-I-1(B)	11/30/00	1000	Soil		X	1	X			OK TO RUN
Buff-I-2(B)		1010	Soil		X	1	X			
Buff-I-3(B)		1015	Soil		X	1	X			
Buff-I-4(B)		1020	Soil		X	1	X			
Buff-I-5(B)		1030	Soil		X	1	X			
Buff-I-6(B)		1035	Soil		X	1	X			
Buff-I-7(B)		1045	Soil		X	1	X			
Buff-I-8(B)		1055	Soil		X	1	X			
Buff-I-9(B)		1100	Soil		X	1 ~~2~~	X			
Buff-I-10(B)		1110	Soil		X	3	X	X	X	RUN PCB's Hold SVOC's/metals
Buff-I-11(B)		1115	Soil		X	1	X			
Buff-I-12(B)		1120	Soil		X	1	X			
Buff-I-13(B)		1135	Soil		X	1	X			
Buff-I-14(B)		1150	Soil		X	1	X			
Buff-I-15(B)		1155	Soil		X	3	X	X	X	RUN PCB's Hold SVOC's/metals

SHIPPING VIA: Federal Express
SHIPPING NO.: 127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dee Robinson 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000249

QWAL La' atories, Inc.
Quality C ol Report

TERRACON ENVIRONMENTAL
0102687

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Acenapthene	8270		GC/MS	03/07/01		solid	ug/kg
Acenaphthylene	8270		GC/MS	03/07/01		solid	ug/kg
Anthracene	8270		GC/MS	03/07/01		solid	ug/kg
Benzidine	8270		GC/MS	03/07/01		solid	ug/kg
Benzo(a)anthracene	8270		GC/MS	03/07/01		solid	ug/kg
Benzo(b)fluoranthene	8270		GC/MS	03/07/01		solid	ug/kg
Benzo(k)fluoranthene	8270		GC/MS	03/07/01		solid	ug/kg
Benzoic Acid	8270		GC/MS	03/07/01		solid	ug/kg
Benzo(g,h,i)perylene	8270		GC/MS	03/07/01		solid	ug/kg
Benzo(a)pyrene	8270		GC/MS	03/07/01		solid	ug/kg
Benzyl Alcohol	8270		GC/MS	03/07/01		solid	ug/kg
Bis(2-chloroethoxy)methane	8270		GC/MS	03/07/01		solid	ug/kg
Bis(2-chloroethyl)ether	8270		GC/MS	03/07/01		solid	ug/kg
Bis(2-chloroisopropyl)ether	8270		GC/MS	03/07/01		solid	ug/kg
Bis(2-ethylhexyl)phthalate	8270		GC/MS	03/07/01		solid	ug/kg
4-Bromophenyl phenyl ether	8270		GC/MS	03/07/01		solid	ug/kg
Butylbenzylphthalate	8270		GC/MS	03/07/01		solid	ug/kg
4-Chloroaniline	8270		GC/MS	03/07/01		solid	ug/kg
4-Chloro-3-methylphenol	8270		GC/MS	03/07/01		solid	ug/kg
2-Chloronaphthalene	8270		GC/MS	03/07/01		solid	ug/kg
2-Chlorophenol	8270		GC/MS	03/07/01		solid	ug/kg
4-Chlorophenylphenylether	8270		GC/MS	03/07/01		solid	ug/kg
Chrysene	8270		GC/MS	03/07/01		solid	ug/kg
Dibenzo(a,h)anthracene	8270		GC/MS	03/07/01		solid	ug/kg
Dibenzofuran	8270		GC/MS	03/07/01		solid	ug/kg
1,2-Dichlorobenzene	8270		GC/MS	03/07/01		solid	ug/kg
1,3-Dichlorobenzene	8270		GC/MS	03/07/01		solid	ug/kg
1,4-Dichlorobenzene	8270		GC/MS	03/07/01		solid	ug/kg
3,3'-Dichlorobenzidine	8270		GC/MS	03/07/01		solid	ug/kg
2,4-Dichlorophenol	8270		GC/MS	03/07/01		solid	ug/kg
Diethyl phthalate	8270		GC/MS	03/07/01		solid	ug/kg
2,4-Dimethylphenol	8270		GC/MS	03/07/01		solid	ug/kg
Dimethylphathalate	8270		GC/MS	03/07/01		solid	ug/kg
4,6-Dinitro-2-Methylphenol	8270		GC/MS	03/07/01		solid	ug/kg
Di-n-butylphthalate	8270		GC/MS	03/07/01		solid	ug/kg
2,4-Dinitrophenol	8270		GC/MS	03/07/01		solid	ug/kg
2,4-Dinitrotoluene	8270		GC/MS	03/07/01		solid	ug/kg

000250

QWAL L: ıtories, Inc.
Quality C .rol Report

TERRACON ENVIRONMENTAL
0102687

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
2,6-Dinitrotoluene	8270		GC/MS	03/07/01		solid	ug/kg
Di-n-Octylphthalate	8270		GC/MS	03/07/01		solid	ug/kg
1,2-Diphenyl Hydrazine	8270		GC/MS	03/07/01		solid	ug/kg
Fluoranthene	8270		GC/MS	03/07/01		solid	ug/kg
Fluorene	8270		GC/MS	03/07/01		solid	ug/kg
Hexachlorobenzene	8270		GC/MS	03/07/01		solid	ug/kg
Hexachlorobutadiene	8270		GC/MS	03/07/01		solid	ug/kg
Hexachlorocyclopentadiene	8270		GC/MS	03/07/01		solid	ug/kg
Hexachloroethane	8270		GC/MS	03/07/01		solid	ug/kg
Indeno(1,2,3-cd)pyrene	8270		GC/MS	03/07/01		solid	ug/kg
Isophorone	8270		GC/MS	03/07/01		solid	ug/kg
2-Methylnaphthalene	8270		GC/MS	03/07/01		solid	ug/kg
2-Methylphenol	8270		GC/MS	03/07/01		solid	ug/kg
4-Methylphenol	8270		GC/MS	03/07/01		solid	ug/kg
Naphthalene	8270		GC/MS	03/07/01		solid	ug/kg
2-Nitroaniline	8270		GC/MS	03/07/01		solid	ug/kg
3-Nitroaniline	8270		GC/MS	03/07/01		solid	ug/kg
4-Nitroaniline	8270		GC/MS	03/07/01		solid	ug/kg
Nitrobenzene	8270		GC/MS	03/07/01		solid	ug/kg
2-Nitrophenol	8270		GC/MS	03/07/01		solid	ug/kg
4-Nitrophenol	8270		GC/MS	03/07/01		solid	ug/kg
N-Nitroso-di-n-propylamine	8270		GC/MS	03/07/01		solid	ug/kg
N-Nitrosodiphenylamine(1)	8270		GC/MS	03/07/01		solid	ug/kg
N-Nitrosodimethylamine	8270		GC/MS	03/07/01		solid	ug/kg
Pentachlorophenol	8270		GC/MS	03/07/01		solid	ug/kg
Phenathrene	8270		GC/MS	03/07/01		solid	ug/kg
Phenol	8270		GC/MS	03/07/01		solid	ug/kg
Pyrene	8270		GC/MS	03/07/01		solid	ug/kg
1,2,4-Trichlorobenzene	8270		GC/MS	03/07/01		solid	ug/kg
2,4,5-Trichlorophenol	8270		GC/MS	03/07/01		solid	ug/kg
2,4,6-Trichlorophenol	8270		GC/MS	03/07/01		solid	ug/kg
2-Fluorobiphenyl (sur)	8270		GC/MS	03/07/01		solid	ug/kg
Nitrobenzene-d8 (sur)	8270		GC/MS	03/07/01		solid	ug/kg
2-Fluorophenol (sur)	8270		GC/MS	03/07/01		solid	ug/kg
2,4,6-Tribromophenol (sur)	8270		GC/MS	03/07/01		solid	ug/kg
Terphenyl-d14 (sur)	8270		GC/MS	03/07/01		solid	ug/kg
Phenol-d5 (sur)	8270		GC/MS	03/07/01		solid	ug/kg

000251

QWAL La' atories, Inc.
Quality C rol Report

TERRACON ENVIRONMENTAL
0102687

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
Acenaphthene	ND				ND	3333.33	2860	86	2580	77	10	2220	3333.33	67
Acenaphthylene	ND				ND							2240	3333.333	67
Anthracene	ND				ND							2600	3333.33	78
Benzidine	ND				ND									
Benzo(a)anthracene	ND				ND							2410	3333.333	72
Benzo(b)fluoranthene	ND				ND							2540	3333.333	76
Benzo(k)fluoranthene	ND				ND							3010	3333.333	90
Benzoic Acid	ND				ND									
Benzo(g,h,i)perylene	ND				ND							3520	3333.333	106
Benzo(a)pyrene	ND				ND							2640	3333.333	79
Benzyl Alcohol	ND				ND							1570	3333.333	47
Bis(2-chloroethoxy)methane	ND				ND							2640	3333.333	79
Bis(2-chloroethyl)ether	ND				ND							2200	3333.333	66
Bis(2-chloroisopropyl)ether	ND				ND							3860	3333.333	116
Bis(2-ethylhexyl)phthalate	ND				ND							4280	3333.333	128
4-Bromophenyl phenyl ether	ND				ND							1870	3333.333	56
Butylbenzylphthalate	ND				ND							3740	3333.333	112
4-Chloroaniline	ND				ND							1730	3333.333	52
4-Chloro-3-methylphenol	ND				ND	6666.667	3810	57	3390	51	12	2200	3333.333	66
2-Chloronaphthalene	ND				ND							1760	3333.333	53
2-Chlorophenol	ND				ND	6666.667	3220	48	3120	47	3	1920	3333.333	58
4-Chlorophenylphenylether	ND				ND							1640	3333.333	49
Chrysene	ND				ND							2650	3333.333	80
Dibenzo(a,h)anthracene	ND				ND							3530	3333.333	106
Dibenzofuran	ND				ND							2020	3333.333	61
1,2-Dichlorobenzene	ND				ND							2310	3333.333	69
1,3-Dichlorobenzene	ND				ND							2060	3333.333	62
1,4-Dichlorobenzene	ND				ND	3333.333	1880	56	2060	62	9	2170	3333.333	65
3,3'-Dichlorobenzidine	ND				ND							1880	3333.333	56
2,4-Dichlorophenol	ND				ND							1710	3333.333	51
Diethyl phthalate	ND				ND							2640	3333.333	79
2,4-Dimethylphenol	ND				ND							1630	3333.333	49
Dimethylphathalate	ND				ND							2300	3333.333	69
4,6-Dinitro-2-Methylphenol	ND				ND							4140	3333.333	124
Di-n-butylphthalate	ND				ND	3333.333	5430	163 *	5100	153 *	6	3680	3333.333	110
2,4-Dinitrophenol	ND				ND							3560	3333.333	107
2,4-Dinitrotoluene	ND				ND	3333.333	2880	86	2840	85	1	2550	3333.333	77

000252

QWAL La' ·atories, Inc.
Quality C ·ol Report

TERRACON ENVIRONMENTAL
0102687

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec	
2,6-Dinitrotoluene	ND				ND							2410	3333.333	72	
Di-n-Octylphthalate	ND				ND							4290	3333.333	129	
1,2-Diphenyl Hydrazine	ND				ND							4080	3333.333	122	
Fluoranthene	ND				ND							2110	3333.333	63	
Fluorene	ND				ND							2650	3333.333	80	
Hexachlorobenzene	ND				ND							1650	3333.333	50	
Hexachlorobutadiene	ND				ND							1300	3333.333	39	
Hexachlorocyclopentadiene	ND				ND							2450	3333	74	
Hexachloroethane	ND				ND							2080	3333.333	62	
Indeno(1,2,3-cd)pyrene	ND				ND							2940	3333.333	88	
Isophorone	ND				ND							3080	3333.333	92	
2-Methylnaphthalene	ND				ND							2050	3333.333	62	
2-Methylphenol	ND				ND							1800	3333.333	54	
4-Methylphenol	ND				ND							1990	3333.333	60	
Naphthalene	ND				ND							2130	3333.333	64	
2-Nitroaniline	ND				ND							3370	3333.333	101	
3-Nitroaniline	ND				ND							2350	3333.333	71	
4-Nitroaniline	ND				ND							2080	3333.333	62	
Nitrobenzene	ND				ND							2830	3333.333	85	
2-Nitrophenol	ND				ND							2070	3333.333	62	
4-Nitrophenol	ND				ND	6666.667	4090	61	3320	50	21	1920	3333.333	58	
N-Nitroso-di-n-propylamine	ND				ND	3333.333	3570	107	3060	92	15	3060	3333.333	92	
N-Nitrosodiphenylamine(1)	ND				ND							1120	3333.333	34	
N-Nitrosodimethylamine	ND				ND							3300	3333.333	99	
Pentachlorophenol	ND				ND	6666.667	2700	41	2360	35	13	965.7	3333.333	29	
Phenanthrene	ND				ND							2590	3333.333	78	
Phenol	ND				ND	6666.667	3270	49	3250	49	1	2350	3333.333	71	
Pyrene	ND				ND	3333.333	4700	141	3830	115	20	2610	3333.333	78	
1,2,4-Trichlorobenzene	ND				ND	3333.333	1550	47	1430	43	8	1530	3333.333	46	
2,4,5-Trichlorophenol	ND				ND							1460	3333.333	44	
2,4,6-Trichlorophenol	ND				ND							1430	3333.333	43	
2-Fluorobiphenyl (sur)	1030				1880	3333.333	1320	40	1260	38	5	1430	3333.333	43	
Nitrobenzene-d8 (sur)	1730				1330	3333.333	1900	57	1900	57	0	857	3333.333	26	
2-Fluorophenol (sur)	1340				1750	3333.333	1160	35	1240	37	7	144.1	3333.333	4	*
2,4,6-Tribromophenol (sur)	455				540	3333.333	832	25	674	20	21	838	3333.333	25	
Terphenyl-d14 (sur)	2850				2810	3333.333	2930	88	2110	63	33	2260	3333.333	68	
Phenol-d5 (sur)	911				1460	3333.333	1540	46	1380	41	11	580	3333.333	17	

000253

QWAL Laboratories, Inc.
Quality Control Report

TERRACON ENVIRONMENTAL
0102687

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	03/01/01		water	%

000254

QWAL Laboratories, Inc.
Quality Control Report

TERRACON ENVIRONMENTAL
0102687

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	26.57	26.29	1								89.13	100	89

000255

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials:

000256

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012078

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED: 12/18/00
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

PROJECT:WCPSC-BUFFALO OK PART 5

Sample ID: BUFFI-12CD **Sample Matrix:** SOIL
Collection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	5850	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	82	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	94.77	%	0.01	12/06/00KDH	

Sample ID: BUFFI-13BD **Sample Matrix:** SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	73	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	72	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	94.26	%	0.01	12/06/00KDH	

000257

Sample ID: BUFFI-13CD Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	15700D	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	97	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	94.14	%	0.01	12/06/00KDH	

Sample ID: BUFFI-13DD Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	993D	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	100	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	94.06	%	0.01	12/06/00KDH	

Sample ID: BUFFI-13ED Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFFI-14BD Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00

Sample ID: BUFFI-14BD Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	87	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	92.40	%	0.01	12/06/00KDH	

Sample ID: BUFFI-14CD Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	560	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	83	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	93.44	%	0.01	12/06/00KDH	

Sample ID: BUFFI-14DD Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	6170	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	96	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	95.43	%	0.01	12/06/00KDH	

Sample ID: BUFFI-14ED Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFFI-14FD Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFFAR-5AD Sample Matrix: SOIL
Collection Date: 11/30/00 15:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	5470D	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	51	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	95.26	%	0.01	12/06/00KDH	

Sample ID: BUFFAR-5BD Sample Matrix: SOIL
Collection Date: 11/30/00 15:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-7E Sample Matrix: SOIL
Collection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-12E Sample Matrix: SOIL
Collection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-13E Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-14E Sample Matrix: SOIL
Collection Date: 11/30/00 11:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-17E Sample Matrix: SOIL
Collection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-18E Sample Matrix: SOIL
Collection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-19E Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

Sample ID: BUFF-I-14F Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

Sample ID: BUFF-I-17F Sample Matrix: SOIL
Collection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

Sample ID: BUFF-I-7F Sample Matrix: SOIL
Collection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

Sample ID: BUFF-I-14G Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

Sample ID: BUFF-I-14H Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

000262

on
Terrace
Kansas 66215
one: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGPSC- Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)

RESULTS ATTENTION TO:
John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-14(17)	11/30/00	1150	Soil		X	1	X	HOLD
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA:
Federal Express

SHIPPING NO.:
1127-5857-7

PRIORITY:
overnight

LABORATORY PRIORITY

XXX 48- Hour ____ STANDARD 72 hour TAT ____ OTHER

____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Tony Poulter	Sue Robinson 12/2/00 11:40		
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
Terracon			
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000263

...on
...th Terrace
...ndas 66215
(913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ...IALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGPSC Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)

RESULTS ATTENTION TO:
John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
BUFF-I-14 (G)	11/30/00	1150	Soil		X	1	X	HOLD
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA:
...deral Express

SHIPPING NO.: 127-5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER

___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000264

...on
...8th Terrace
...ansas 66215
...(913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE):
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-14 (F)	11/30/00	1150	Soil		X	1	X	HOLD
Buff-I-17 (F)	↓	1205	Soil		X	1	X	↓
BUFF-I-7 (F)	↓	1045	Soil		X	1	X	↓
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA:
Federal Express
SHIPPING NO.: 127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

on
96th Terrace
Kansas 66216
one: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

00120

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGPSC Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)

RESULTS ATTENTION TO:
John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE					COOL	# of Containers	PCB's by EPA 8082							REMARKS
BUFF-I-7 (E)	11/30/00	1045	Soil						X	1	X							HOLD
BUFF-I-12 (E)		1120	Soil						X	1	X							
BUFF-I-13 (E)		1135	Soil						X	1	X							
BUFF-I-14 (E)		1140	Soil						X	1	X							
BUFF-I-17 (E)		1205	Soil						X	1	X							
BUFF-I-18 (E)		1210	Soil						X	1	X							
BUFF-I-19 (E)		1215	Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							

SHIPPING VIA:
Federal Express

SHIPPING NO.:
1127-5857-7

PRIORITY:
overnight

LABORATORY PRIORITY

XXX 48- Hour ____ STANDARD 72 hour TAT ____ OTHER

____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE Tony Poulter	SIGNATURE Dee Robinson 12/2/00	SIGNATURE	SIGNATURE 11:40
PRINTED NAME Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000266

[redacted]on
[redacted]96th Terrace
[redacted] Kansas 66216
[redacted]ne: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGPSC- Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)
Jason R. Franklin

RESULTS ATTENTION TO:
John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-12 (CO)	11/30/00	1120	Soil		X	1	X	OK TO RUN
Buff-I-13 (BO)		1135	Soil		X	1	X	OK TO RUN
Buff-I-13 (CO)		1135	Soil		X	1	X	OK TO RUN
Buff-I-13 (DO)		1135	Soil		X	1	X	OK to RUN
Buff-I-13 (EO)		1135	Soil		X	1	X	HOLD
Buff-I-14 (BO)		1150	Soil		X	1	X	OK
Buff-I-14 (CO)		1150	Soil		X	1	X	OK
Buff-I-14 (DO)		1150	Soil		X	1	X	OK
Buff-I-14 (EO)		1150	Soil		X	1	X	HOLD
Buff-I-14 (FO)		1150	Soil		X	1	X	HOLD
~~Buff-AR-5~~			Soil		X	1	X	~~[illegible]~~
Buff-AR-5 (AO)		1510	Soil		X	1	X	OK TO RUN
Buff-AR-5 (BO)		1510	Soil		X	1	X	HOLD
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA:
Federal Express

SHIPPING NO.: 1127-5857-7

PRIORITY: overnight

LABORATORY PRIORITY

XXX 48- Hour ____ STANDARD 72 hour TAT ____ OTHER

____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [illegible] 12/2/00	SIGNATURE: 11:40	SIGNATURE:
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000267

QWAL I[illegible]atories, Inc.
Quality [illegible]trol Report

TERRACON ENVIRONMENTAL
0012078

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/13/00		soil	ug/Kg
PCB-1221	8082		GC/ECD	12/13/00		soil	ug/Kg
PCB-1232	8082		GC/ECD	12/13/00		soil	ug/Kg
PCB-1242	8082		GC/ECD	12/13/00		soil	ug/Kg
PCB-1248	8082		GC/ECD	12/13/00		soil	ug/Kg
PCB-1254	8082		GC/ECD	12/13/00		soil	ug/Kg
PCB-1260	8082		GC/ECD	12/13/00		soil	ug/Kg
DCB (Surr)	8082		GC/ECD	12/13/00		soil	ug/Kg

000268

QWAL L; ıtories, Inc.
Quality C. .rol Report

TERRACON ENVIRONMENTAL
0012078

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				ND	66.66	46.7	70	51.5	77	10	50.5	66.666	76
PCB-1260	ND											ND		
DCB (Surr)	3.93				4.0	6.66	3.64	53	3.88	57	6	3.66	6.66	55

000269

QWAL Laboratories, Inc.
Quality Control Report
TERRACON ENVIRONMENTAL
0012078

Parameter	Test code	Test Description	Instrument description	Analysis Date	Analysis Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/06/00		water	%

000270

QWAL L atories, Inc.
Quality Control Report

TERRACON ENVIRONMENTAL
0012078

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	88.89	88.81	0.09								292	301.5	97

000271

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials: AA

000272

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012079

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
JOHN ROCKHOLD

DATE REPORTED: 12/14/00
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/01/00
P.O. #:

PROJECT:WGPSC - BUFFALO, OK

Sample ID: BUFF-I-8E **Sample Matrix:** SOIL
Collection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE			DLB	

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SU SURROGATE

APPROVED BY: TERRY KOESTER
TERRY KOESTER
LABORATORY DIRECTOR

000273

Q.W.A.L. LAB RATORIES, INC.

Established 1976

2911 Rotary Terrace • Pittsburg, Kansas 66762

TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1970

0012079

(1) Company Name: Terracon
Attention: John Cockfield
Address: 13910 W. 96th Ter
Lenexa, Ks 66215
City, State, Zip Code

(4) Phone #: 913-492-7777

(4) Fax #: 913-492-7443

(2) Project Name or Number: WGPSC - Buffalo, OK

(5) Purchase Order #:

(3) Sampling Personnel Signature(s): Jason R. Franks

Sampling Personnel (print name): Jason R. Franks

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☒ Standard ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(12) ANALYSIS REQUEST (Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(11) Sample Matrix: Water	Soil	Air	Sludge	Other	PCB's by 8082	REMARKS (If special detection limits are required please note below.)
Buff-AR-5(AS)	11/30	1510		X	1					X			X				X	ship to PACE
Buff-AR-5(BS)	11/30	1510		X	1					X			X				X	ship to PACE
HIG-AR-11(BS)	11/29	1555		X	1					X			X				X	ship to PACE
Buff-I-8(E)	11/30	~~1555~~		X	1					X			X				X	HOLD

PACE
1608 LOIRET Blvd.
Lenexa, KS 66215
(Ship overnight
Bill Customer)

(14) Relinquished By: Date Time
Received By: Sue Robinson Date 12/1/00 Time
Relinquished By: Date Time
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time

(15) Send Report to:
Company Williams Gas
Attn: Mark Sullivan
Address:
City/State:
Phone:
Fax:

(16) Send Invoice to:
(if different form report address)
Company
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.

TERRACON

12/04/00 MON 12:16 FAX 9134927443

000274

Q W A L LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012077

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED: 01/31/01
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

PROJECT:WGPSC-BUFFALO OK - PART 4

Sample ID: BUFF-I-8C **Sample Matrix:** SOIL
Collection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CLP PACKAGE		DONE	STD UN		01/31/01MS2	
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	3780D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
[illegible] (SUR)	-	37 Q	150	50		12/09/00
T[illegible] SOLIDS	EPA 160.3	93.96	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-9C **Sample Matrix:** SOIL
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	3060D	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	62	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.64	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-10C Sample Matrix: SOIL
Collection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	21	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	103	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	97.26	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-11C Sample Matrix: SOIL
Collection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	94	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	94.93	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-12C Sample Matrix: SOIL
Collection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	4330D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	6 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	93.74	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-13C Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	4440D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	6 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	95.89	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-14C Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	4650D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	8 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.37	%	0.01	12/04/00KDH	
SEMIVOLATILES	SW 846 8270B					
ACENAPTHENE	83-32-9	ND	UG/KG	5900	12/13/00DN	12/12/00
ACENAPHTHYLENE	208-96-8	ND	UG/KG	5900	12/13/00DN	12/12/00
ANTHRACENE	120-12-7	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZIDINE	92-87-5	ND	UG/KG	29000	12/13/00DN	12/12/00
BENZO(A)ANTHRACENE	56-55-3	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZOIC ACID	65-85-0	ND	UG/KG	29000	12/13/00DN	12/12/00
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZO(A)PYRENE	191-24-2	ND	UG/KG	5900	12/13/00DN	12/12/00
BENZYL ALCOHOL	100-51-6	ND	UG/KG	12000	12/13/00DN	12/12/00
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/KG	5900	12/13/00DN	12/12/00
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/KG	5900	12/13/00DN	12/12/00
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/KG	5900	12/13/00DN	12/12/00
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/KG	5900	12/13/00DN	12/12/00
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/KG	5900	12/13/00DN	12/12/00
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/KG	5900	12/13/00DN	12/12/00
4-CHLOROANILINE	106-47-8	ND	UG/KG	12000	12/13/00DN	12/12/00
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/KG	12000	12/13/00DN	12/12/00

Sample ID: BUFF-I-14C Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
2-CHLORONAPHTHALENE	91-58-7	ND	UG/KG	5900	12/13/00DN	12/12/00
2-CHLOROPHENOL	95-57-8	ND	UG/KG	5900	12/13/00DN	12/12/00
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/KG	5900	12/13/00DN	12/12/00
CHRYSENE	218-01-9	ND	UG/KG	5900	12/13/00DN	12/12/00
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/KG	5900	12/13/00DN	12/12/00
DIBENZOFURAN	132-64-9	ND	UG/KG	5900	12/13/00DN	12/12/00
1,2-DICHLOROBENZENE	95-50-1	ND	UG/KG	5900	12/13/00DN	12/12/00
1,3-DICHLOROBENZENE	541-73-1	ND	UG/KG	5900	12/13/00DN	12/12/00
1,4-DICHLOROBENZENE	106-46-7	ND	UG/KG	5900	12/13/00DN	12/12/00
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/KG	12000	12/13/00DN	12/12/00
2,4-DICHLOROPHENOL	120-83-2	ND	UG/KG	5900	12/13/00DN	12/12/00
DIETHYL PHTHALATE	84-66-2	ND	UG/KG	5900	12/13/00DN	12/12/00
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/KG	5900	12/13/00DN	12/12/00
DIMETHYLPHATHALATE	131-11-3	ND	UG/KG	5900	12/13/00DN	12/12/00
ISOPHORONE	78-59-1	ND	UG/KG	5900	12/13/00DN	12/12/00
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/KG	5900	12/13/00DN	12/12/00
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/KG	12000	12/13/00DN	12/12/00
2,4-DINITROPHENOL	51-28-5	ND	UG/KG	12000	12/13/00DN	12/12/00
2,4-DINITROTOLUENE	121-14-2	ND	UG/KG	5900	12/13/00DN	12/12/00
2,6-DINITROTOLUENE	606-20-2	ND	UG/KG	5900	12/13/00DN	12/12/00
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/KG	5900	12/13/00DN	12/12/00
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/KG	5900	12/13/00DN	12/12/00
FLUORANTHENE	206-44-0	ND	UG/KG	5900	12/13/00DN	12/12/00
FLUORENE	86-73-7	ND	UG/KG	5900	12/13/00DN	12/12/00
HEXACHLOROBENZENE	118-74-1	ND	UG/KG	5900	12/13/00DN	12/12/00
HEXACHLOROBUTADIENE	87-68-3	ND	UG/KG	5900	12/13/00DN	12/12/00
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/KG	5900	12/13/00DN	12/12/00
HEXACHLOROETHANE	67-72-1	ND	UG/KG	5900	12/13/00DN	12/12/00
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/KG	5900	12/13/00DN	12/12/00
2-METHYLNAPHTHALENE	91-57-6	6770	UG/KG	5900	12/13/00DN	12/12/00
2-METHYLPHENOL	95-48-7	ND	UG/KG	5900	12/13/00DN	12/12/00
3,4-METHYLPHENOL	106-44-5	ND	UG/KG	5900	12/13/00DN	12/12/00
NAPHTHALENE	91-20-3	ND	UG/KG	5900	12/13/00DN	12/12/00
2-NITROANILINE	88-74-4	ND	UG/KG	29000	12/13/00DN	12/12/00
3-NITROANILINE	99-09-2	ND	UG/KG	29000	12/13/00DN	12/12/00
4-NITROANILINE	100-01-6	ND	UG/KG	29000	12/13/00DN	12/12/00
NITROBENZENE	98-95-3	ND	UG/KG	5900	12/13/00DN	12/12/00
2-NITROPHENOL	88-75-5	ND	UG/KG	5900	12/13/00DN	12/12/00
4-NITROPHENOL	100-02-7	ND	UG/KG	29000	12/13/00DN	12/12/00
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/KG	5900	12/13/00DN	12/12/00
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/KG	5900	12/13/00DN	12/12/00
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/KG	5900	12/13/00DN	12/12/00
PENTACHLOROPHENOL	87-86-5	ND	UG/KG	29000	12/13/00DN	12/12/00
PHENATHRENE	85-01-8	ND	UG/KG	5900	12/13/00DN	12/12/00
PHENOL	108-95-2	ND	UG/KG	5900	12/13/00DN	12/12/00
PYRENE	129-00-0	ND	UG/KG	5900	12/13/00DN	12/12/00
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/KG	5900	12/13/00DN	12/12/00
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/KG	5900	12/13/00DN	12/12/00

Sample ID: BUFF-I-14C Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/KG	5900	12/13/00DN	12/12/00
2-FLUOROBIPHENYL (SUR)	-	Q	150	10		12/12/00
NITROBENZENE-D5 (SUR)	-	Q	150	10		12/12/00
2-FLUOROPHENOL (SUR)	-	Q	150	10		12/12/00
2,4,6-TRIBROMOPHENOL (SUR)	-	Q	150	10		12/12/00
TERPHENYL-D14 (SUR)	-	Q	150	10		12/12/00
PHENOL-D5 (SUR)	-	Q	150	10		12/12/00
METAL PREPARATION	EPA 3050	IS001205			12/05/00JH	
SILVER, TOTAL	SW 846 6010B	<0.5	MG/KG	0.5	12/08/00RDC	
ARSENIC, TOTAL	SW 846 6010B	1.8	MG/KG	0.5	12/08/00RDC	
BARIUM, TOTAL	SW 846 6010B	145	MG/KG	0.05	12/08/00RDC	
CADMIUM, TOTAL	SW 846 6010B	0.28	MG/KG	0.05	12/08/00RDC	
CHROMIUM, TOTAL	SW 846 6010B	7.9	MG/KG	0.01	12/08/00RDC	
MERCURY, TOTAL	SW 846 7471	1.715	MG/KG	0.01	12/05/00XM	
LEAD, TOTAL	SW 846 6010B	32.0	MG/KG	0.1	12/08/00RDC	
SELENIUM, TOTAL	SW 846 6010B	<0.5	MG/KG	0.5	12/08/00RDC	

Sample ID: BUFF-I-15C Sample Matrix: SOIL
Collection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	45 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.94	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-16C Sample Matrix: SOIL
Collection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00

Sample ID: BUFF-I-16C Sample Matrix: SOIL
Collection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
DCB (SUR)	-	68	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.52	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-17C Sample Matrix: SOIL
Collection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	1110D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	31 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.34	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-18C Sample Matrix: SOIL
C ıction Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	2390D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	20 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	97.03	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-19C Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00

Sample ID: BUFF-I-19C Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	3820D	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	7 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.50	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-20C Sample Matrix: SOIL
Collection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
(SUR)	-	130	150	50		12/09/00
SOLIDS	EPA 160.3	96.15	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-21C Sample Matrix: SOIL
Collection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	119	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.43	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-22C **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	127	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.19	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-23C **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	99	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.16	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-24C **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	118	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.93	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-25C **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	124	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	97.67	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-1D **Sample Matrix:** SOIL
Collection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
3-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
8-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	119	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.03	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-2D **Sample Matrix:** SOIL
Collection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/09/00
DCB (SUR)	-	114	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.24	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-3D Sample Matrix: SOIL
Collection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	102	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.35	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-4D Sample Matrix: SOIL
Collection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	136	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.59	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-5D Sample Matrix: SOIL
Collection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	125	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	95.56	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-6D Sample Matrix: SOIL
Collection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	130	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.57	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-7D Sample Matrix: SOIL
Collection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
-1254	11097-69-1	4680D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	63	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	95.69	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-8D Sample Matrix: SOIL
Collection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	5500D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	110	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	92.59	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-9D Sample Matrix: SOIL
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	2380D	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	102	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.06	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-10D Sample Matrix: SOIL
Collection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	132	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.55	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-11D Sample Matrix: SOIL
Collection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	141	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.55	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-12D **Sample Matrix:** SOIL
Collection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	214	UG/KG	17	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/09/00
DCB (SUR)	-	130	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	97.57	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-13D **Sample Matrix:** SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
B-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
B-1254	11097-69-1	5660D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	108	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	92.84	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-14D **Sample Matrix:** SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/09/00
PCB-1254	11097-69-1	2480D	UG/KG	18	12/13/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/09/00
DCB (SUR)	-	51	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	94.74	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-15D Sample Matrix: SOIL
Collection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/12/00
DCB (SUR)	-	94	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	97.89	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-16D Sample Matrix: SOIL
Collection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/12/00
DCB (SUR)	-	50	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	96.57	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-17D Sample Matrix: SOIL
Collection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/12/00JSS	12/12/00
PCB-1254	11097-69-1	714	UG/KG	17	12/12/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/12/00JSS	12/12/00
DCB (SUR)	-	113	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	97.76	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-18D Sample Matrix: SOIL
Collection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1254	11097-69-1	962D	UG/KG	18	12/12/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/12/00
DCB (SUR)	-	105	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	95.13	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-19D Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/12/00
-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/12/00
-1254	11097-69-1	2290D	UG/KG	18	12/12/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/12/00
DCB (SUR)	-	119	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	96.14	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-20D Sample Matrix: SOIL
Collection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
DCB (SUR)	-	65	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	97.46	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-21D **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
DCB (SUR)	-	57	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	97.30	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-22D **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	74	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	96.68	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-23D **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
DCB (SUR)	-	81	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	97.33	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-24D Sample Matrix: SOIL
Collection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/13/00JSS	12/12/00
DCB (SUR)	-	72	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	95.95	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-25D Sample Matrix: SOIL
Collection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/13/00JSS	12/12/00
-1254	11097-69-1	ND	UG/KG	17	12/13/00JSS	12/12/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/13/00JSS	12/12/00
DCB (SUR)	-	80	150	50		12/12/00
TOTAL SOLIDS	EPA 160.3	98.31	%	0.01	12/04/00KDH	

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester CH
TERRY KOESTER
LABORATORY DIRECTOR

000291

0012011

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-1 (D)	11/30/00	1000	Soil		X	1	X	OK to RUN
Buff-I-2 (D)		1010	Soil		X	1	X	
Buff-I-3 (D)		1015	Soil		X	1	X	
Buff-I-4 (D)		1020	Soil		X	1	X	
Buff-I-5 (D)		1030	Soil		X	1	X	
Buff-I-6 (D)		1035	Soil		X	1	X	
Buff-I-7 (D)		1045	Soil		X	1	X	
Buff-I-8 (D)		1055	Soil		X	1	X	
Buff-I-9 (D)		1100	Soil		X	1	X	
Buff-I-10 (D)		1110	Soil		X	1	X	
Buff-I-11 (D)		1115	Soil		X	1	X	
Buff-I-12 (D)		1120	Soil		X	1	X	
Buff-I-13 (D)		1135	Soil		X	1	X	
Buff-I-14 (D)		1150	Soil		X	1	X	
Buff-I-15 (D)		1155	Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ____ STANDARD 72 hour TAT ____ OTHER
____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

00292

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

0012077

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franklin
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	COOL	# of Containers	PCB's by EPA 8082	SVOC's	metals	REMARKS
Buff-I-16 (c)	11/30/00	1200	Soil	X	1	X			OK TO RUN
Buff-I-17 (c)		1205	Soil	X	1	X			OK TO RUN
Buff-I-18 (c)		1210	Soil	X	3	X	X	X	Run PCB's / Hold SVOC's/metals
Buff-I-19 (c)		1215	Soil	X	3	X	X	X	Run PCB's / Hold SVOC's metals
Buff-I-20 (c)		1230	Soil	X	1	X			OK to Run
Buff-I-21 (c)		1235	Soil	X	1	X			
Buff-I-22 (c)		1240	Soil	X	1	X			
Buff-I-23 (c)		1245	Soil	X	1	X			
Buff-I-24 (c)		1250	Soil	X	1	X			
Buff-I-25 (c)		1255	Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			
			Soil	X	1	X			

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Sue Robinson 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

0002993

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

001207

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA metals 6000/7000	REMARKS
Buff-I-1 (c)	11/30/00	1000	Soil		X	1	X			OK to Run
Buff-I-2 (c)		1010	Soil		X	1	X			
Buff-I-3 (c)		1015	Soil		X	1	X			
Buff-I-4 (c)		1020	Soil		X	1	X			
Buff-I-5 (c)		1030	Soil		X	1	X			
Buff-I-6 (c)		1035	Soil		X	1	X			
Buff-I-7 (c)		1045	Soil		X	1	X			
Buff-I-8 (c)		1055	Soil		X	3	X	X	X	Run PCB's Hold SVOCs/metals
Buff-I-9 (c)		1100	Soil		X	3	X	X	X	Run PCB's Hold SVOC's/metals
Buff-I-10 (c)		1110	Soil		X	1	X			OK to Run
Buff-I-11 (c)		1115	Soil		X	1	X			OK to Run
Buff-I-12 (c)		1120	Soil		X	1	X			OK to Run
Buff-I-13 (c)		1135	Soil		X	3	X	X	X	Run PCB's Hold SVOCs/metals
Buff-I-14 (c)		1150	Soil		X	3	X	X	X	OK to Run All
Buff-I-15 (c)		1155	Soil		X	1	X			OK to Run

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00	SIGNATURE:	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000294

Terracon
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Lenexa, Kansas 66215
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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franklin
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-16 (0)	11/30/00	1200	Soil		X	1	X	OK to RUN
Buff-I-17 (0)		1205	Soil		X	1	X	
Buff-I-18 (0)		1210	Soil		X	1	X	
Buff-I-19 (0)		1215	Soil		X	1	X	
Buff-I-20 (0)		1230	Soil		X	1	X	
Buff-I-21 (0)		1235	Soil		X	1	X	
Buff-I-22 (0)		1240	Soil		X	1	X	
Buff-I-23 (0)		1245	Soil		X	1	X	
Buff-I-24 (0)		1250	Soil		X	1	X	
Buff-I-25 (0)		1255	Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dee Robinson 12/2/00	SIGNATURE:	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000295

QWAL La[illegible]tories, Inc.
Quality C[illegible]rol Report

TERRACON
0012077

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1221	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1232	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1242	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1248	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1254	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1260	8082		GC/ECD	12/05/00		soil	ug/Kg
DCB (Surr)	8082		GC/ECD	12/05/00		soil	ug/Kg

000296

QWAL L atories, Inc.
Quality rol Report

TERRACON
0012077

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec		Spk. Result	% Rec		RPD	LCS (known) QC Data Result	True Value	% Rec
PCB-1016	ND													ND		
PCB-1221	ND													ND		
PCB-1232	ND													ND		
PCB-1242	ND													ND		
PCB-1248	ND													ND		
PCB-1254	ND				ND	66.66	241	362	*	236	354	*	2	47.1	66.666	71
PCB-1260	ND													ND		
DCB (Surr)	9.82				9.5	6.66	10.6	139		10.6	139		0	9.72	6.66	145

000297

QWAL L atories, Inc.
Quality Control Report

TERRACON
0012077

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000298

QWAL La tories, Inc.
Quality Control Report

TERRACON
0012077

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	86.39	86.28	0.13								316	301.5	105

000299

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials: DL

000300

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012074

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED: 01/31/01
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

PROJECT:WGPSC-BUFFALO

Sample ID: BUFF-I-WP-1 **Sample Matrix:** WIPES
Collection Date: 11/30/00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CLP PACKAGE		COMPLETE	STD UN		12/15/00DN	
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
[illegible] (SUR)	-	116	150	50		12/04/00

Sample ID: BUFF-I-WP-2 **Sample Matrix:** WIPE
Collection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	110	150	50		12/04/00

Sample ID: BUFF-I-WP-3 **Sample Matrix:** WIPE
Collection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

Sample ID: BUFF-I-WP-3 Sample Matrix: WIPE
Collection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	112	150	50		12/04/00

Sample ID: BUFF-AR-WP-1 Sample Matrix: WIPE
Collection Date: 11/30/00 16:16:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	8.82	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
(SUR)	-	109	150	50		12/04/00

Sample ID: BUFF-AR-WP-2 Sample Matrix: WIPE
Collection Date: 11/30/00 16:18:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	160 Q	150	50		12/04/00

Sample ID: BUFF-AR-WP-3 Sample Matrix: WIPE
Collection Date: 11/30/00 16:14:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

Sample ID: BUFF-AR-WP-3 Sample Matrix: WIPE
Collection Date: 11/30/00 16:14:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	0.672	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	154 Q	150	50		12/04/00

Sample ID: BUFF-AR-WP-4 Sample Matrix: WIPE
Collection Date: 11/30/00 16:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
(SUR)	-	160 Q	150	50		12/04/00

Sample ID: BUFF-AR-WP-5 Sample Matrix: WIPE
Collection Date: 11/30/00 16:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	0.991	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	166 Q	150	50		12/04/00

Sample ID: BUFF-AR-WP-6 Sample Matrix: WIPE
Collection Date: 11/30/00 15:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

Sample ID: BUFF-AR-WP-6 Sample Matrix: WIPE
Collection Date: 11/30/00 15:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	19.6	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	167 Q	150	50		12/04/00

Sample ID: BUFF-AR-WP-7 Sample Matrix: WIPE
Collection Date: 11/30/00 16:12:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
D (SUR)	-	122	150	50		12/04/00

Sample ID: BUFF-AR-WP-8 Sample Matrix: WIPE
Collection Date: 11/30/00 16:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	113	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	139	150	50		12/04/00

ample ID: BUFF-AR-WP-9 Sample Matrix: WIPE
ollection Date: 11/30/00 16:02:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

Sample ID: BUFF-AR-WP-9 Sample Matrix: WIPE
Collection Date: 11/30/00 16:02:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	16.6	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	133	150	50		12/04/00

Sample ID: BUFF-AR-WP-10 Sample Matrix: WIPE
Collection Date: 11/30/00 16:04:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	4910 D	UG	0.50	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/05/00JSS	12/04/00
[illegible] (SUR)	-	110	150	50		12/04/00

Sample ID: BUFF-AR-WP-11 Sample Matrix: WIPE
Collection Date: 11/30/00 16:06:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	136	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	67	150	50		12/04/00

Sample ID: BUFF-AR-WP-12 Sample Matrix: WIPE
Collection Date: 11/30/00 16:08:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
[illegible]-1016	12674-11-2	ND	UG	0.50	12/04/00JSS	12/04/00

Sample ID: BUFF-AR-WP-12 Sample Matrix: WIPE
Collection Date: 11/30/00 16:08:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	120	UG	0.50	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/04/00JSS	12/04/00
DCB (SUR)	-	106	150	50		12/04/00

Sample ID: BUFF-AR-WP-13 Sample Matrix: WIPE
Collection Date: 11/30/00 16:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	139 D	UG	0.50	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/05/00JSS	12/04/00
(SUR)	-	119	150	50		12/04/00

Sample ID: BUFF-AR-WP-8R Sample Matrix: WIPE
Collection Date: 11/30/00 16:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG	0.50	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	254 D	UG	0.50	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG	0.50	12/05/00JSS	12/04/00
DCB (SUR)	-	91	150	50		12/04/00

Sample ID: BUFF-I-R1 Sample Matrix: WATER
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00

Sample ID: BUFF-I-R1 Sample Matrix: WATER
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
DCB (SUR)	-	35 Q	150	50		12/06/00

Sample ID: BUFF-I-R2 Sample Matrix: WATER
Collection Date: 11/30/00 11:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
(SUR)	-	45 Q	150	50		12/06/00

Sample ID: BUFF-I-R3 Sample Matrix: WATER
Collection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
DCB (SUR)	-	20 Q	150	50		12/06/00

Sample ID: BUFF-I-R4 Sample Matrix: WATER
Collection Date: 11/30/00 14:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00

Sample ID: BUFF-I-R4 Sample Matrix: WATER
Collection Date: 11/30/00 14:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
DCB (SUR)	-	37 Q	150	50		12/06/00

Sample ID: BUFF-I-R5 Sample Matrix: WATER
Collection Date: 11/30/00 14:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
D[illegible] (SUR)	-	34 Q	150	50		12/06/00

Sample ID: BUFF-AR-R1 Sample Matrix: WATER
Collection Date: 11/30/00 15:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
DCB (SUR)	-	26 Q	150	50		12/06/00

Sample ID: BUFF-AR-R2 Sample Matrix: WATER
Collection Date: 11/30/00 16:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
XTRACTION	NONE	B120600B			DLB	

Sample ID: BUFF-AB-BASEMENT WATER Sample Matrix: WATER
Collection Date: 11/30/00 16:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	2.28	UG/L	0.50	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/L	0.50	12/07/00JSS	12/06/00
DCB (SUR)	-	29 Q	150	50		12/06/00

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

.2' '0--AMENDED TO CORRECT PCB WIPE RESULTS FOR 4A,6A,7A,8A DN

con
0 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATOR ANALYSIS REQUEST

001204

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SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Joan Rafferty
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-I-WP-1	11/30/00	1025	~~Soil~~		X	1	X	OK TO RUN
Buff-I-WP-2		1030	~~Soil~~		X	1	X	
Buff-I-WP-3		1035	~~Soil~~		X	1	X	
Buff-AR-WP-1		1616	Soil		X	1	X	
Buff-AR-WP-2		1618	~~Soil~~		X	1	X	
Buff-AR-WP-3		1614	~~Soil~~		X	1	X	
Buff-AR-WP-4		1620	~~Soil~~		X	1	X	
Buff-AR-WP-5		1625	~~Soil~~		X	1	X	
Buff-AR-WP-6		1500	~~Soil~~		X	1	X	
Buff-AR-WP-7		1617	~~Soil~~		X	1	X	
Buff-AR-WP-8		1600	~~Soil~~		X	1	X	
Buff-AR-WP-9		1602	~~Soil~~		X	1	X	
Buff-AR-WP-10		1604	~~Soil~~		X	1	X	
Buff-AR-WP-11		1606	~~Soil~~		X	1	X	
Buff-AR-WP-12		1608	~~Soil~~		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72-hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00	SIGNATURE	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000310

on
96th Terrace
Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE 1

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. [illegible]
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff-AR-WP-13	11/30/00	1610	~~Soil~~		X	1	X	OK TO RUN
Buff-AR-WP-8 R	11/30/00	1630	~~Soil~~		X	1	X	↓
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ____ STANDARD 72 hour TAT ____ OTHER
____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [illegible] 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

0012074

...con
...98th Terrace
...Kansas 66215
...(913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
Buff- I - R1	11/30/00	1100	~~Soil~~ WA		X	1	X	OK TO RUN
Buff- I- R2		1130	~~Soil~~ WA		X	1	X	
Buff- I- R3		1200	~~Soil~~ WA		X	1	X	
Buff- I- R4		1400	~~Soil~~ WA		X	1	X	
Buff- I- R5		1415	~~Soil~~ WA		X	1	X	
Buff- AR+R1		1530	~~Soil~~ WA		X	1	X	
Buff- AR- R2		1605	~~Soil~~ WA		X	1	X	HOLD
Buff- AB- Basement Water		1600	~~Soil~~ WA		X	1	X	OK TO RUN
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

...IPPING VIA:
...eral Express
...PPING NO.: 27-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
X 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000312

QWAL Laboratories, Inc.
Quality Control Report

TERRACON
0012074

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/06/00		water	ug/L
PCB-1221	8082		GC/ECD	12/06/00		water	ug/L
PCB-1232	8082		GC/ECD	12/06/00		water	ug/L
PCB-1242	8082		GC/ECD	12/06/00		water	ug/L
PCB-1248	8082		GC/ECD	12/06/00		water	ug/L
PCB-1254	8082		GC/ECD	12/06/00		water	ug/L
PCB-1260	8082		GC/ECD	12/06/00		water	ug/L
DCB (Surr)	8082		GC/ECD	12/06/00		water	ug/L
PCB-1016	8082		GC/ECD	12/04/00		wipe	ug
PCB-1221	8082		GC/ECD	12/04/00		wipe	ug
PCB-1232	8082		GC/ECD	12/04/00		wipe	ug
PCB-1242	8082		GC/ECD	12/04/00		wipe	ug
PCB-1248	8082		GC/ECD	12/04/00		wipe	ug
PCB-1254	8082		GC/ECD	12/04/00		wipe	ug
PCB-1260	8082		GC/ECD	12/04/00		wipe	ug
DCB (Surr)	8082		GC/ECD	12/04/00		wipe	ug

000313

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012075

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED: 01/31/01
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

PROJECT:WGPSC-BUFFALO OK PART 2

Sample ID: BUFF-AR-1A **Sample Matrix:** SOIL
Collection Date: 11/30/00 03:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CLP PACKAGE		done	STD UN		01/31/01MS2	
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/04/00JSS	12/04/00
[illegible] (SUR)	-	94	150	50		12/04/00
T[illegible] SOLIDS	EPA 160.3	94.68	%	0.01	12/04/00KDH	

Sample ID: BUFF-AR-2A **Sample Matrix:** SOIL
Collection Date: 11/30/00 03:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/04/00JSS	12/04/00
PCB-1254	11097-69-1	630	UG/KG	18	12/04/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/04/00JSS	12/04/00
DCB (SUR)	-	82	150	50		12/04/00
TOTAL SOLIDS	EPA 160.3	95.36	%	0.01	12/04/00KDH	

000314

Sample ID: BUFF-AR-3A Sample Matrix: SOIL
Collection Date: 11/30/00 02:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	48	UG/KG	19	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/05/00JSS	12/04/00
DCB (SUR)	-	104	150	50		12/04/00
TOTAL SOLIDS	EPA 160.3	88.87	%	0.01	12/04/00KDH	

Sample ID: BUFF-AR-4A Sample Matrix: SOIL
Collection Date: 11/30/00 03:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
-1254	11097-69-1	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
DCB (SUR)	-	118	150	50		12/04/00
OTAL SOLIDS	EPA 160.3	94.17	%	0.01	12/04/00KDH	

ample ID: BUFF-AR-5A Sample Matrix: SOIL
ollection Date: 11/30/00 03:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	6980D	UG/KG	18	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
DCB (SUR)	-	86	150	50		12/04/00
OTAL SOLIDS	EPA 160.3	94.23	%	0.01	12/04/00KDH	

Sample ID: BUFF-AR-6A Sample Matrix: SOIL
Collection Date: 11/30/00 02:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	42	UG/KG	18	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
DCB (SUR)	-	101	150	50		12/04/00
TOTAL SOLIDS	EPA 160.3	93.11	%	0.01	12/04/00KDH	

Sample ID: BUFF-AR-7A Sample Matrix: SOIL
Collection Date: 11/30/00 03:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
-1254	11097-69-1	54	UG/KG	18	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
DCB (SUR)	-	122	150	50		12/04/00
OTAL SOLIDS	EPA 160.3	94.36	%	0.01	12/04/00KDH	

ample ID: BUFF-AR-8A Sample Matrix: SOIL
ollection Date: 11/30/00 03:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/05/00JSS	12/04/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/05/00JSS	12/04/00
DCB (SUR)	-	102	150	50		12/04/00
OTAL SOLIDS	EPA 160.3	93.74	%	0.01	12/04/00KDH	

000316

Sample ID: BUFF-AR-9A Sample Matrix: SOIL
Collection Date: 11/30/00 03:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	20	12/05/00JSS	12/05/00
PCB-1221	11104-28-2	ND	UG/KG	20	12/05/00JSS	12/05/00
PCB-1232	11141-16-5	ND	UG/KG	20	12/05/00JSS	12/05/00
PCB-1242	53469-21-9	ND	UG/KG	20	12/05/00JSS	12/05/00
PCB-1248	12672-29-6	ND	UG/KG	20	12/05/00JSS	12/05/00
PCB-1254	11097-69-1	ND	UG/KG	20	12/05/00JSS	12/05/00
PCB-1260	11096-82-5	ND	UG/KG	20	12/05/00JSS	12/05/00
DCB (SUR)	-	126	150	50		12/05/00
TOTAL SOLIDS	EPA 160.3	87.85	%	0.01	12/04/00KDH	

Sample ID: BUFF-AR-1B Sample Matrix: SOIL
Collection Date: 11/30/00 03:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-2B Sample Matrix: SOIL
Collection Date: 11/30/00 03:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-3B Sample Matrix: SOIL
Collection Date: 11/30/00 02:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-4B Sample Matrix: SOIL
Collection Date: 11/30/00 03:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-5B Sample Matrix: SOIL
Collection Date: 11/30/00 03:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-6B Sample Matrix: SOIL
Collection Date: 11/30/00 02:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-7B Sample Matrix: SOIL
Collection Date: 11/30/00 03:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-8B Sample Matrix: SOIL
Collection Date: 11/30/00 03:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-9B Sample Matrix: SOIL
Collection Date: 11/30/00 03:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-1C Sample Matrix: SOIL
Collection Date: 11/30/00 03:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

000318

Sample ID: BUFF-AR-2C Sample Matrix: SOIL
Collection Date: 11/30/00 03:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-3C Sample Matrix: SOIL
Collection Date: 11/30/00 02:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-4C Sample Matrix: SOIL
Collection Date: 11/30/00 03:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-5C Sample Matrix: SOIL
Collection Date: 11/30/00 03:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-6C Sample Matrix: SOIL
Collection Date: 11/30/00 02:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-7C Sample Matrix: SOIL
Collection Date: 11/30/00 03:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

000319

CONTINUED IN VOLUME III

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

ADMINISTRATIVE RECORD

REMOVAL ACTION

SITE NAME: **BUFFALO COMPRESSOR STATION**

BUFFALO, HARPER COUNTY, OKLAHOMA

SITE NUMBER: **OK0000605396**

VOLUME III OF III

Internet Address (URL) - http://www.epa.gov/earth1r6/
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

INTRODUCTION

The "Administrative Record" is the collection of documents which form the basis for the U.S. Environmental Protection Agency's (EPA) selection of a response action at a Superfund site. Superfund is the name given to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) which can be found in Title 42 of the U.S. Code (U.S.C.) at Sections 9601 through 9675. Response actions under Superfund can be either "removal action" or "remedial action". This Administrative Record involves a *removal action*. As EPA decides what to do at the site of a release of hazardous substances, EPA compiles documents concerning the site and EPA's decision into an "Administrative Record File." Documents may be added to the "Administrative Record File" from time to time. Once the EPA Regional Administrator or the Regional Administrator's delegate signs the Action Memorandum memorializing the selection of the removal action, the documents which form the basis for the selection of the removal action are known as the "Administrative Record."

The Administrative Record will be available for public review during normal business hours at EPA, Region 6 offices which is located at the address given below, and it will also be available at the Buffalo Public Library, 11 E. Turner Street, Buffalo, Oklahoma 73834. The Administrative Record is treated as a non-circulating reference document. Individuals may photocopy any documents contained in the Administrative Record File, according to the photocopying procedures at the EPA, Region 6 offices and at the repository located near the Site. The Administrative Record will be maintained at the local repository(s) until further notice. EPA may send additional documents to the repository (s) as work progresses at the Site

EPA may hold formal public comment periods at certain stages of the response process. The public is urged to use the formal public comment periods to submit written comments to EPA regarding the removal at the Site. However, EPA welcomes written comments at any time. Please send all comments to:

Removal Administrative Record Coordinator (6SF-R)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

Except as explained below, this index and the record was compiled in accordance with EPA's Final Guidance on Administrative Records for Selecting CERCLA Response Actions, Office of

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Solid Waste and Emergency Response (OSWER) Directive Number 9833.3A-1 (December 3, 1990), and in accordance with Superfund Removal Procedures Public Participation Guidance for On-scene Coordinators: Community Relations and the Administrative Record, OSWER 9360.3-05 (July 1992), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300.

According to OSWER Directive No. 9833.3A-1, Page 37, each Region should maintain a compendium of guidance documents which are frequently used in selecting response actions, and the record located at or near the site of response action should contain an index to the compendium of response selection guidance documents. However, the EPA-headquarters generated compendium of guidance documents has not been updated since March 22, 1991 [see CERCLA Administrative Records: First Update of the Compendium of Documents Used for Selecting CERCLA Response Actions (March 1991)]. Moreover, the EPA, Region 6 Superfund Division Director has decided that developing and maintaining a compendium index in Region 6 would require extensive resources which are better utilized elsewhere in the Division. Accordingly, the Division Director has decided not to maintain an indexed compendium of response-selection guidance documents. Instead, consistent with 40 CFR Sections 300.805 (a) (2), 300.810 (a) (2), and OSWER Directive No. 9833.3A-1, Page 37, the Region has listed, in the Administrative Record Index (or in bibliographies of documents listed in the index), all guidance documents which may form a basis for the selection of this response action.. See *Section I* of the Administrative Record. Unless the guidance documents indexed were generated specifically for the Site, the guidance documents may not be physically present in the Administrative Record.

Documents listed as bibliographic sources for other documents in the record might not be listed separately in the Site Index. Where a document is listed in the Site Index but not located among the documents which EPA has made available in the repository, EPA will, upon request, include the document in the repository. This applies to verified sampling data, chain of custody forms, and guidance and policy documents. It does not apply to documents in EPA's "Confidential File". Requests for such documents should be addressed to the Removal Administrative Record Coordinator at the address listed above. Copies of guidance documents can also be obtained by calling the RCRA/Superfund/Title 3 Hotline at (800) 424-9346, or by accessing on your computer the US EPA Internet Home Page at: US EPA Headquarters, **http://www.epa.gov**. Then follow these instructions: click "Databases and Software"; click "General Information"; click "EPA's Information System Inventory (ISI)"; click "Index"; click "Enforcement" or "Superfund". Then, if you clicked "Enforcement", you will be on the "OECA" Page, where you will click "Policy & Guidance"; click "Statute Specific Policy Categories"; click "Site Remediation (Superfund)"; click on any of the listed "CERCLA (Superfund) Enforcement Documents" categories", including "Other Guidance and Documents," or you can click on "New Documents" for any recent policy additions. If you clicked on "Superfund" instead of "Enforcement", then click "Topics", or "Publications" and follow the menu.

COMMONLY USED ACRONYMS

ADPC&E	Arkansas Department of Pollution Control & Ecology
ATSDR	Agency for Toxic Substances and Disease Registry
CDC	Centers for Disease Control and Prevention
CERCLA	Comprehensive Environmental Response Compensation & Liability Act of 1980
EPA	United States Environmental Protection Agency
RPB	Response and Prevention Branch (formerly ERB)
ERRS	Emergency and Rapid Response Services [EPA Contractor] (Formerly ERCS)
FOIA	Freedom of Information Act
LDEQ	Louisiana Department of Environmental Quality
NFRAP	No Further Remedial Action Planned Summary
NMED	New Mexico Environment Department (formerly NMEID)
NPL	National Priorities List
OPA	Oil Pollution Act
OSC	On-Scene Coordinator
ODEQ	Oklahoma Department of Environmental Quality (formerly OSDH)
OSHA	Occupational Safety and Health Administration
POLREP	Pollution Report
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act of 1976
SARA	Superfund Amendment and Reauthorization Act of 1986
START	Superfund Technical Assessment and Response Team [EPA Contractor] (formerly TAT)
TNRCC	Texas Natural Resources Conservation Commission (formerly TWC)
UAO	Unilateral Administrative Order

ADMINISTRATIVE RECORD, HASTINGS RADIOCHEMICAL REMOVAL ACTION
SECTION I (GUIDANCE DOCUMENTS - NON SITE SPECIFIC)

DOCUMENT DATE	2/1/88
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Superfund Removal Procedures, Revision 3, OSWER 9360.-3B
AUTHOR	EPA
DESCRIPTION	Superfund removal procedures (superceded in part by later guidance).

DOCUMENT DATE	4/1/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Quality Assurance/Quality Control Guidance, OSWER 9360.4-01
AUTHOR	EPA
DESCRIPTION	Procedures for QA/QC for data collection activities and review of laboratory

DOCUMENT DATE	12/1/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Action Memorandum Guidance, OSWER 9360.3-01
AUTHOR	EPA
DESCRIPTION	Outlines the minimum requirements for an action memorandum.

DOCUMENT DATE	12/3/90
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Final Guidance on Administrative Records, OSWER 9833.3A-1
AUTHOR	EPA
DESCRIPTION	How to compile and establish administrative records under CERCLA.

DOCUMENT DATE	9/1/91
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Guidance on the Consideration of ARARs, OSWER 9360.3-02
AUTHOR	EPA
DESCRIPTION	Potential Applicable or Relevant and Appropriate Requirements (ARARs).

ADMINISTRATIVE RECORD, HASTINGS RADIOCHEMICAL REMOVAL ACTION
SECTION I (GUIDANCE DOCUMENTS - NON SITE SPECIFIC)

DOCUMENT DATE	4/1/92
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Removal Enforcement Guidance for OSCs, OSWER 9360.3-06
AUTHOR	EPA
DESCRIPTION	Summary of authorities for conducting enforcement activities during removals.

DOCUMENT DATE	7/1/92
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Public Participation Guidance for OSCs, OSWER 9360.3-05
AUTHOR	EPA
DESCRIPTION	Removal action public participation and administrative record activities.

DOCUMENT DATE	8/1/93
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Guidance on Conducting Non-Time-Critical Removal Actions, OSWER 9360.0-32
AUTHOR	EPA
DESCRIPTION	Non-time-critical removal actions and the National Contingency Plan.

DOCUMENT DATE	6/1/94
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Removal Response Reporting: POLREPs and OSC Reports, OSWER 9360.3-03
AUTHOR	EPA
DESCRIPTION	Clarifies removal actions reporting criteria.

DOCUMENT DATE	9/1/96
DOCUMENT TYPE	EPA Guidance Document
DOCUMENT	Response Management: Start-up to Close-out, OSWER 9360.3-04
AUTHOR	EPA
DESCRIPTION	Summarizes guidance and statutory authorities for response management.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

ADMINISTRATIVE RECORD

REMOVAL ACTION

INDEX

May 31, 2002

SITE NAME: **BUFFALO COMPRESSOR STATION**

BUFFALO, HARPER COUNTY, OKLAHOMA

SITE NUMBER: **OK0000605396**

VOLUME II1 OF III

Internet Address (URL) - http://www.epa.gov/earth1r6/
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ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	1
LAST PAGE	55
DOCUMENT DATE	December 2, 1994
DOCUMENT TYPE	Report w/ Attachments
DOCUMENT TITLE	PCB General Site Characterization: Former Buffalo Compressor Station
AUTHOR	Unspecified
AUTHOR'S COMPANY	ERM-Rocky Mountain, Inc.
RECIPIENT	Unspecified
RECIPIENT'S COMPANY	U.S. EPA, Region 6 *and* Williams Natural Gas Company
DESCRIPTION	PCB general site characterization with the following attachments:

0014-0015	Figure 1	Site Location Map
0016-0017	Figure 2	Site Diagram
0018-0019	Table 1	Relative Percent Difference Values
0020-0021	Table 2	Analytical Results
0022-0024	Appendix A	Site Photos
0025-0025	Appendix B	Waste Disposal Documents (None)
0026-0055	Appendix C	Analytical Reports

May 31, 2002

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	**56**
LAST PAGE	**86**
DOCUMENT DATE	**April 6, 1995**
DOCUMENT TYPE	**Report w/ Attachments**
DOCUMENT TITLE	**PCB Site Characterization, Williams Natural Gas Facility, Project No. 11885**
AUTHOR	**Unspecified**
AUTHOR'S COMPANY	**Burlington Environmental, Inc., *A Philip Environmental Company***
RECIPIENT	**Unspecified**
RECIPIENT'S COMPANY	**U.S. EPA, Region 6 *and* Williams Natural Gas**
DESCRIPTION	**PCB Site Characterization with following attachments:**

0062-0065	Figures	Maps/Diagrams/Drawings
0066-0068	Tables:	PCB Analytical Results for Concrete Wipe Samples
0069-0078	Appendix A.	Sample Logs/Chain of Custody Documentation
0079-0083	Appendix B.	ETS Analytical Results
0084-0086	Appendix C	Manifests and Certificates of Disposal

May 31, 2002

ADMINISTRATIVE RECORD, BUFFALO COMPRESSOR STATION SITE
REMOVAL ACTION INDEX:
SECTION 2 (SITE SPECIFIC DOCUMENTS)

FIRST PAGE	87
LAST PAGE	458
DOCUMENT DATE	April 23, 2001
DOCUMENT TYPE	Report w/ Attachments
DOCUMENT TITLE	PCB Site Characterization, Buffalo Compressor Station, Buffalo, OK, NE 1/4, NE 1/4, Sec. 1, T27N, R23W, Harper County. Project No. 50007055.
AUTHOR/s	John R. Rockhold, P.G., CGWP, Senior Project Manager *and* Michael S. Kukuk, P.G., Associate Principal
AUTHOR'S COMPANY	Terracon
RECIPIENT	Mark Sullivan
RECIPIENT'S COMPANY	Williams Gas Pipelines South Central *and* U.S. EPA, Region 6
DESCRIPTION	Final Emergency Response Report describing the U.S. EPA's response actions at the Service Waste, Inc., fire site with attachments:

0109-0110	Appendix A:	Figure 1.	Site Vicinity Map
0111-0111		Figure 2.	Site Diagram
0112-0112		Figure 3.	Impoundment Area Grid - PCB Results
0113-0113		Figure 4.	Air Receiver Discharge Area Grid
0114-0114		Figure 5.	Impoundment Area Grid - PCB Results
0115-0119	Appendix B:	Table 1.	PCB Analytical Results
0120-0120		Table 2.	RCRA Metal Analysis Soils (11-20-2000)
0121-0122		Table 3.	SVOC Analysis Soils (11-2000)
0123-0125	Appendix C:	Standard Operating Procedures	
0126-0128	Appendix D:	Photo Log	
0129-0354	Appendix E:	Laboratory Reports	
0355-0361	Appendix F:	Final Report and Letter from Williams to EPA Region V1 (3-10-95) w/ Attachments:	
0362-0370	Figures	Maps/Drawings/Diagrams	
0371-0379	Tables	Table A - Tables 1 thru 7	
0380-0458	Appendices:	Reports/Analytical Reports	

May 31, 2002

FIRST PAGE:	**459**
LAST PAGE:	**473**
DOCUMENT DATE:	**May 20, 2002**
DOCUMENT TYPE:	**Removal Action Memorandum w/ Attachments**
DOCUMENT TITLE:	**Request for a Time Critical Removal Action at the Buffalo Compressor Station Site, Harper County, Oklahoma**
AUTHOR:	**Rita Engblom, Federal OSC (On-Scene Coordinator)**
AUTHOR'S COMPANY:	**U.S. EPA, Region 6**
RECIPIENT:	**Myron O. Knudson, P.E., Director**
RECIPIENT'S COMPANY:	**U.S. EPA, Region 6**
DESCRIPTION:	**Request and documents for a Removal Action at Buffalo Compressor Station Site. Attachments are as follows:**

0471-0471	**Attachment 1**	**Site Location Map**
0472-0742	**Attachment 2**	**Site Map**
0473-0473	**Attachment 3**	**Enforcement Attachment has been withheld as Enforcement Sensitive and is located only in separate confidential files at U.S. EPA, Region 6**

Sample ID: BUFF-AR-8C Sample Matrix: SOIL
Collection Date: 11/30/00 03:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-AR-9C Sample Matrix: SOIL
Collection Date: 11/30/00 03:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
EXTRACTION	NONE	DONE	NONE		DLB	

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

000320

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE):
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
BUFF-AR-01 (C)	11/30/00	320	Soil		X	1	X	HOLD
BUFF-AR-02 (C)		305	Soil		X	1	X	
BUFF-AR-03 (C)		250	Soil		X	1	X	
BUFF-AR-04 (C)		315	Soil		X	1	X	
BUFF-AR-05 (C)		310	Soil		X	1	X	
BUFF-AR-06 (C)		255	Soil		X	1	X	
BUFF-AR-07 (C)		325	Soil		X	1	X	
BUFF-AR-08 (C)		330	Soil		X	1	X	
BUFF-AR-09 (C)		335	Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XX 48-Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [illegible] 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE):
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	REMARKS
BUFF-AR-A1 (B)	11/30/00	320	Soil		X	1	X	HOLD
BUFF-AR-A2 (B)		305	Soil		X	1	X	
BUFF-AR-A3 (B)		250	Soil		X	1	X	
BUFF-AR-A4 (B)		315	Soil		X	1	X	
BUFF-AR-A5 (B)		310	Soil		X	1	X	
BUFF-AR-A6 (B)		255	Soil		X	1	X	
BUFF-AR-A7 (B)		325	Soil		X	1	X	
BUFF-AR-A8 (B)		330	Soil		X	1	X	
BUFF-AR-A9 (B)		335	Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	
			Soil		X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature]	SIGNATURE: 12/2/00	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000322

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE):
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE					COOL	# of Containers	PCB's by EPA 8082							REMARKS
BUFF-AR-01 (A)	11/30/00	320	Soil						X	1	X							OK TO RUN
BUFF-AR-02 (A)	↓	305	Soil						X	1	X							↓
BUFF-AR-03 (A)	↓	250	Soil						X	1	X							↓
BUFF-AR-04 (A)	↓	315	Soil						X	1	X							↓
BUFF-AR-05 (A)	↓	310	Soil						X	1	X							↓
BUFF-AR-06 (A)	↓	255	Soil						X	1	X							↓
BUFF-AR-07 (A)	↓	325	Soil						X	1	X							↓
BUFF-AR-08 (A)	↓	330	Soil						X	1	X							↓
BUFF-AR-09 (A)	↓	335	Soil						X	1	X							↓
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							
			Soil						X	1	X							

SHIPPING VIA: Federal Express
SHIPPING NO.: 127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [signature] 12/2/00	SIGNATURE	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

QWAL La' ıtories, Inc.
Quality C .ol Report

TERRACON
0012075

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1221	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1232	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1242	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1248	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1254	8082		GC/ECD	12/05/00		soil	ug/Kg
PCB-1260	8082		GC/ECD	12/05/00		soil	ug/Kg
DCB (Surr)	8082		GC/ECD	12/05/00		soil	ug/Kg

000324

QWAL La' tories, Inc.
Quality C. ol Report

TERRACON
0012075

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				ND	66.66	41.3	62	40.8	61	1	35.8	66.666	54
PCB-1260	ND											ND		
DCB (Surr)	6.6				9.6	6.66	8.66	123	9.36	133	8	9.78	6.66	147

000325

QWAL L atories, Inc.
Quality Control Report
TERRACON
0012075

Parameter	Test code	Test Description	Instrument description	Analysis Date	Analysis Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000326

QWAL L: atories, Inc.
Quality C .rol Report

TERRACON
0012075

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
Total Solids	ND	86.39	86.28	0.13								316	301.5	105

000327

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials: DH

000328

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012076

SENT TO: TERRACON ENVIRONMENTAL
13910 WEST 96TH TERRACE
LENEXA, KANSAS 66215
TONY POULTER

DATE REPORTED: 01/31/01
DATE COLLECTED: 11/30/00
DATE RECEIVED: 12/02/00
P.O. #:

PROJECT:WGPSC-BUFFALO OK PART 3

Sample ID: BUFF-I-1A **Sample Matrix:** SOIL
Collection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CLP PACKAGE		done	STD UN		01/31/01MS2	
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
(SUR)	-	96	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.09	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-2A **Sample Matrix:** SOIL
Collection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	93	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.25	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-3A Sample Matrix: SOIL
Collection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	839	UG/KG	17	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/07/00JSS	12/06/00
DCB (SUR)	-	71	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	98.25	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-4A Sample Matrix: SOIL
Collection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/07/00JSS	12/06/00
-1248	12672-29-6	ND	UG/KG	17	12/07/00JSS	12/06/00
-1254	11097-69-1	2650D	UG/KG	17	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/07/00JSS	12/06/00
DCB (SUR)	-	68	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	97.81	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-5A Sample Matrix: SOIL
Collection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	65	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.73	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-6A Sample Matrix: SOIL
Collection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	77	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.34	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-10A Sample Matrix: SOIL
Collection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	49 Q	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.04	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-11A Sample Matrix: SOIL
Collection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	40 Q	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	96.34	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-15A Sample Matrix: SOIL
Collection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/07/00JSS	12/06/00
DCB (SUR)	-	59	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.71	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-16A Sample Matrix: SOIL
Collection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/07/00JSS	12/06/00
-1248	12672-29-6	ND	UG/KG	17	12/07/00JSS	12/06/00
-1254	11097-69-1	ND	UG/KG	17	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/07/00JSS	12/06/00
DCB (SUR)	-	76	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	97.40	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-20A Sample Matrix: SOIL
Collection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	61	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	99	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.19	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-21A **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	97	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	96.40	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-22A **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	93	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.05	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-23A **Sample Matrix:** SOIL
Collection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/07/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/07/00JSS	12/06/00
DCB (SUR)	-	83	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	95.73	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-24A Sample Matrix: SOIL
Collection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	86	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.50	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-25A Sample Matrix: SOIL
Collection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
-1254	11097-69-1	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	49 Q	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	96.87	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-1B Sample Matrix: SOIL
Collection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/08/00JSS	12/06/00
DCB (SUR)	-	73	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	89.82	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-2B Sample Matrix: SOIL
Collection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	71	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	91.95	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-3B Sample Matrix: SOIL
Collection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
-1254	11097-69-1	4800	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	104	150	50		12/06/00
TOTAL SOLIDS	EPA 160.3	94.67	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-4B Sample Matrix: SOIL
Collection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
CB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/08/00JSS	12/06/00
PCB-1254	11097-69-1	2030	UG/KG	18	12/08/00JSS	12/06/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/08/00JSS	12/06/00
DCB (SUR)	-	100	150	50		12/06/00
OTAL SOLIDS	EPA 160.3	94.33	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-5B Sample Matrix: SOIL
Collection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	20	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	20	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	20	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	20	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	20	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	20	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	20	12/11/00JSS	12/08/00
DCB (SUR)	-	84	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	87.06	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-6B Sample Matrix: SOIL
Collection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	95	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	92.51	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-7B Sample Matrix: SOIL
Collection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	88	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	92.26	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-8B Sample Matrix: SOIL
Collection Date: 11/30/00 10:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	309	UG/KG	17	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/08/00
DCB (SUR)	-	98	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	97.58	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-9B Sample Matrix: SOIL
Collection Date: 11/30/00 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
3-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
B-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	67	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	89.34	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-10B Sample Matrix: SOIL
Collection Date: 11/30/00 11:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	89	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	74	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	94.09	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

000337

Sample ID: BUFF-I-11B Sample Matrix: SOIL
Collection Date: 11/30/00 11:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	80	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	91.29	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-12B Sample Matrix: SOIL
Collection Date: 11/30/00 11:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	1810D	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	30 Q	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	95.89	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-13B Sample Matrix: SOIL
Collection Date: 11/30/00 11:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	102	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	64	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	93.73	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-14B Sample Matrix: SOIL
Collection Date: 11/30/00 11:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	78	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	92.12	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-15B Sample Matrix: SOIL
Collection Date: 11/30/00 11:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	89	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	91.43	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-16B Sample Matrix: SOIL
Collection Date: 11/30/00 12:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	72	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	91.17	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-17B Sample Matrix: SOIL
Collection Date: 11/30/00 12:05:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	98	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	92.42	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-18B Sample Matrix: SOIL
Collection Date: 11/30/00 12:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	150	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	93.15	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-19B Sample Matrix: SOIL
Collection Date: 11/30/00 12:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	25300D	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	53	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	92.55	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-20B Sample Matrix: SOIL
Collection Date: 11/30/00 12:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	86	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	90.09	%	0.01	12/04/00KDH	
EXTRACTION	NONE	DONE	NONE		DLB	

Sample ID: BUFF-I-21B Sample Matrix: SOIL
Collection Date: 11/30/00 12:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
[illegible]-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
[illegible]-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	115	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	89.53	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-22B Sample Matrix: SOIL
Collection Date: 11/30/00 12:40:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/08/00
DCB (SUR)	-	90	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	89.62	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-23B Sample Matrix: SOIL
Collection Date: 11/30/00 12:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/08/00
DCB (SUR)	-	93	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	92.24	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-24B Sample Matrix: SOIL
Collection Date: 11/30/00 12:50:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/11/00JSS	12/08/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/08/00
DCB (SUR)	-	82	150	50		12/08/00
TOTAL SOLIDS	EPA 160.3	97.42	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-25B Sample Matrix: SOIL
Collection Date: 11/30/00 12:55:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	19	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	19	12/11/00JSS	12/09/00
DCB (SUR)	-	97	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	91.73	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-1C Sample Matrix: SOIL
Collection Date: 11/30/00 10:00:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/09/00
DCB (SUR)	-	109	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	98.53	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-2C Sample Matrix: SOIL
Collection Date: 11/30/00 10:10:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/09/00
-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/09/00
-1254	11097-69-1	22	UG/KG	18	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/09/00
DCB (SUR)	-	83	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	94.18	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-3C Sample Matrix: SOIL
Collection Date: 11/30/00 10:15:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	1590D	UG/KG	18	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/09/00
DCB (SUR)	-	49 Q	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.34	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-4C Sample Matrix: SOIL
Collection Date: 11/30/00 10:20:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	17	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	80	UG/KG	17	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	17	12/11/00JSS	12/09/00
DCB (SUR)	-	113	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	97.91	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-5C Sample Matrix: SOIL
Collection Date: 11/30/00 10:30:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/11/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/11/00JSS	12/09/00
DCB (SUR)	-	96	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	94.42	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-6C Sample Matrix: SOIL
Collection Date: 11/30/00 10:35:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	129	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	96.12	%	0.01	12/04/00KDH	

Sample ID: BUFF-I-7C Sample Matrix: SOIL
Collection Date: 11/30/00 10:45:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
PCB'S	SW846 8082					
PCB-1016	12674-11-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1221	11104-28-2	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1232	11141-16-5	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1242	53469-21-9	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1248	12672-29-6	ND	UG/KG	18	12/12/00JSS	12/09/00
PCB-1254	11097-69-1	4220	UG/KG	18	12/12/00JSS	12/09/00
PCB-1260	11096-82-5	ND	UG/KG	18	12/12/00JSS	12/09/00
DCB (SUR)	-	96	150	50		12/09/00
TOTAL SOLIDS	EPA 160.3	92.78	%	0.01	12/04/00KDH	

ND=NONE DETECTED
PQL=PRACTICAL QUANTITATION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

000345

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME
WGPSC- Buffalo, OK

PROJECT NUMBER
50007055

SAMPLER (SIGNATURE)
Jason R. Franks

RESULTS ATTENTION TO:
John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA metals 6000/7000					REMARKS
Buff-I-1 (c)	11/30/00	1000	Soil		X	1	X							OK to Run
Buff-I-2 (c)		1010	Soil		X	1	X							
Buff-I-3 (c)		1015	Soil		X	1	X							
Buff-I-4 (c)		1020	Soil		X	1	X							
Buff-I-5 (c)		1030	Soil		X	1	X							
Buff-I-6 (c)		1035	Soil		X	1	X							
Buff-I-7 (c)		1045	Soil		X	1	X							
Buff-I-8 (c)		1055	Soil		X	3	X	X	X					Run PCB's Hold SVOCs/metals
		1100	Soil		X	3	X	X	X					Run PCB's Hold SVOC's/metals
		1110	Soil		X	1	X							OK to Run
		1115	Soil		X	1	X							OK to Run
		1120	Soil		X	1	X							OK to Run
		1135	Soil		X	3	X	X	X					Run PCB's Hold SVOCs/metals
		1150	Soil		X	3	X	X	X					OK to Run All
		1155	Soil		X	1	X							OK to Run

000346

Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00	SIGNATURE	SIGNATURE: 11:40
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

Terracon
3910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, Ok
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Aaron R. Franklin
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOCs by 8270	RCRA metals 6000/7000					REMARKS
Buff-I-16 (B)	11/30/00	1200	Soil		X	1	X							OK to Run
Buff-I-17 (B)		1205	Soil		X	1	X							
Buff-I-18 (B)		1210	Soil		X	1	X							
Buff-I-19 (B)		1215	Soil		X	1	X							
Buff-I-20 (B)		1230	Soil		X	3	X	X	X					Run PCB's Hold SVOCs/metals
Buff-I-21 (B)		1235	Soil		X	1	X							
Buff-I-22 (B)		1240	Soil		X	1	X							
Buff-I-23 (B)		1245	Soil		X	1	X							
Buff-I-24 (B)		1250	Soil		X	1	X							
Buff-I-25 (B)		1255	Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							
			Soil		X	1	X							

SHIPPING VIA: Federal Express
SHIPPING NO.: 127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: [illegible] 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

000347

00120113

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ___ OF ___

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE): Jason R. Franks
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	COOL	# of Containers	PCB's by EPA 8082	SVOC's by 8270	RCRA Metals 6000/7000					REMARKS
Buff-I-1(B)	11/30/00	1000	Soil		X	1	X							OK to Run
Buff-I-2(B)		1010	Soil		X	1	X							
Buff-I-3(B)		1015	Soil		X	1	X							
Buff-I-4(B)		1020	Soil		X	1	X							
Buff-I-5(B)		1030	Soil		X	1	X							
Buff-I-6(B)		1035	Soil		X	1	X							
Buff-I-7(B)		1045	Soil		X	1	X							
Buff-I-8(B)		1055	Soil		X	1	X							
Buff-I-9(B)		1100	Soil		X	1	X							
Buff-I-10(B)		1110	Soil		X	3	X	X	X					Run PCB's Hold SVOC's / Metals
Buff-I-11(B)		1115	Soil		X	1	X							
Buff-I-12(B)		1120	Soil		X	1	X							
Buff-I-13(B)		1135	Soil		X	1	X							
Buff-I-14(B)		1150	Soil		X	1	X							
Buff-I-15(B)		1155	Soil		X	3	X	X	X					Run PCB's Hold SVOC's / Metals

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ___ STANDARD 72 hour TAT ___ OTHER
___ PROVIDE VERBAL PRELIMINARY RESULTS ___ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00 11:40	SIGNATURE	SIGNATURE
PRINTED NAME: Terracon	PRINTED NAME	PRINTED NAME	PRINTED NAME
FIRM	FIRM	FIRM	FIRM
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

0003 48

Terracon
13910 West 96th Terrace
Lenexa, Kansas 66215
Phone: (913) 492-7777
Fax: (913) 492-7443

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST

PAGE ____ OF ____

SPECIAL INSTRUCTIONS
Bill to WGPSC- Mark Sullivan

PROJECT NAME: WGPSC- Buffalo, OK
PROJECT NUMBER: 50007055
SAMPLER (SIGNATURE):
RESULTS ATTENTION TO: John R. Rockhold

SAMPLE I.D.	DATE	TIME	MATRIX	COOL	# of Containers	PCB's by EPA 8082	REMARKS
BUFF-T-25 (A)	11/30/00	1255	Soil	X	1	X	OK to Run
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	
			Soil	X	1	X	

SHIPPING VIA: Federal Express
SHIPPING NO.: 1127-5857-7
PRIORITY: overnight

LABORATORY PRIORITY
XXX 48- Hour ____ STANDARD 72 hour TAT ____ OTHER
____ PROVIDE VERBAL PRELIMINARY RESULTS ____ FAX

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: Tony Poulter	SIGNATURE: Dave Robinson 12/2/00 11:40	SIGNATURE:	SIGNATURE:
PRINTED NAME: Terracon	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
FIRM:	FIRM:	FIRM:	FIRM:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

000349

QWAL La[illegible]tories, Inc.
Quality C[illegible]rol Report

TERRACON
0012076

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
PCB-1016	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1221	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1232	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1242	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1248	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1254	8082		GC/ECD	12/11/00		soil	ug/Kg
PCB-1260	8082		GC/ECD	12/11/00		soil	ug/Kg
DCB (Surr)	8082		GC/ECD	12/11/00		soil	ug/Kg

000350

QWAL La[illegible]tories, Inc.
Quality C[illegible]rol Report

TERRACON
0012076

Parameter	Blank Data Result	Duplicate QC Data Sample	Duplicate	RPD	Spike / Spike Duplicate QC Data Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	LCS (known) QC Data Result	True Value	% Rec
PCB-1016	ND											ND		
PCB-1221	ND											ND		
PCB-1232	ND											ND		
PCB-1242	ND											ND		
PCB-1248	ND											ND		
PCB-1254	ND				89.3	66.66	154	97	191	153 *	21	48.3	66.666	72
PCB-1260	ND											ND		
DCB (Surr)	5.25				6.9	6.66	6.03	85	7.17	101	17	7.77	6.66	116

000351

QWAL La tories, Inc.
Quality Control Report

TERRACON
0012076

Parameter	Test code	Test Description	Instrument description	Analysis Date	Time	Matrix	Units
Total Solids	TS		Solids apparatus	12/04/00		water	%

000352

QWAL La .tories, Inc.
Quality Control Report

TERRACON
0012076

Parameter	Blank Data	Duplicate QC Data			Spike / Spike Duplicate QC Data							LCS (known) QC Data		
	Result	Sample	Duplicate	RPD	Sample	Spike Amt	Spk. Result	% Rec	Spk. Result	% Rec	RPD	Result	True Value	% Rec
Total Solids	ND	86.4	86.3	0.1								316	302	105

000353

Quality Control Report Definitions

QC	Quality Control
% Rec	Percent Recovery
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
sur	Surrogate
Blank	Method Blank

Quality Control Data Flags

Data Flag Type			
Prefix	Result	Suffix	Description
<			Less Than
>			Greater Than
	BDL		Below Detection Limit
	NA		Not Analyzed
	ND		None Detected
	*		Outside Limits
		B	Analyte found in the associated blank as well as the sample
		D	All compounds identified in an analysis at a secondary dilution
		E	Concentration exceeds the calibration range of the instrument
		J	Indicates an estimated value
		X	Laboratory specified Flag
		m	Matrix interference
		S	Client provided insufficient sample to perform matrix spike/ matrix spike duplicate analysis. Data reported from Reagent Blank Spike / Reagent Blank Spike Duplicate.

Managers Initials:

000354

APPENDIX F:

Final Report and Letter from Williams to EPA Region VI (March 10, 1995)

WILLIAMS NATURAL GAS COMPANY
ONE OF THE WILLIAMS COMPANIES, INC.

Certified Mail
Return Receipt Requested

March 20, 1995

Jeffery J. Robinson
U.S. Environmental Protection Agency
Mail Drop 6T-PT
1445 Ross Avenue
Dallas, Texas 75202-2733

RE: Buffalo Compressor Station
Location, Harper County, OK
EPA Region VI, Final Report

Dear Mr. Robinson:

Enclosed please find the Williams Natural Gas Company (WNG) final report covering the PCB sampling, floor washing and concrete cleanup activities at the Buffalo compressor station location. This progress report is submitted for your information in regard to WNG's PCB response activity in EPA Region VI.

WNG is submitting this report for your review in order to receive telephone approval to proceed at the Buffalo location with the removal of non-contaminated metallic piping from the basement area and burial of the concrete foundation and basement with an anticipated twelve to sixteen feet of clean soil. WNG also is requesting telephone approval to transport non-PCB solid waste, e.g. oil soaked plastic, wood beams, metal piping, sludge and soil (Table 3), to an approved landfill such BFI Porter, Oklahoma and liquid waste, e.g. oil (Table 3), to Trinity Environmental Technologies, Mound Valley, Kansas for disposal.

Per our conversation of March 10, 1994 WNG considers its PCB floor washing and concrete cleanup activities complete at the Buffalo compressor station location.

If you have any questions or instructions regarding this matter, please give me a call at (918) 588-3383.

Sincerely,

Danny L. Rentlinger
for Douglas E. Birkbeck

attachments

cc: General File.06

e-mail: Patti Schmigle 30-3
Brett Hughes 36-3
John Lehmann
J. R. Jankowski
Ed Mize
David Young
Jim Martin
Max Satterwhite

000356

One Williams Center • P. O. Box 3288 • Tulsa, Oklahoma 74101

PCB Site Characterization
PCB Floor & Concrete Cleanup Activities

Williams Natural Gas Company
Former Buffalo Compressor Station Location
Harper County, Oklahoma

March 16, 1995

Prepared for:

U. S. Environmental Protection Agency
Region VI, Dallas, Texas

Attention: Jeffery J. Robinson

Douglas E. Birkbeck
Williams Natural Gas Company
One Williams Center
P. O. Box 3288
Tulsa, Oklahoma 74101

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3 - Pipe Trench, Former Auxiliary Building, Concrete and Metallic Pipe Wipe Sample Locations
4 - Pipe Trench, Former Auxiliary Building, Concrete Verification Wipe Sample Locations
5 - Compressor Engine Room Basement, Concrete Wipe Sample Locations
6 - Compressor Engine Room Basement, Concrete Verification Wipe Sample Locations

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1 - PCB Analytical Results for Concrete Wipe Samples, Auxiliary/Compressor Building

2 - PCB Analytical Results for Surface Wipe Samples, Pipe Trench, Former Auxiliary Building and Walls of the Compressor Engine Room Basement

3 - PCB Analytical Results for Composite Soil, Sediment and Sludge of Compressor Engine Room Basement

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5 - PCB Analytical Results for Verification Concrete Wipe Samples Former Auxiliary Building Floor Area

6 - PCB Analytical Results for Concrete Wipe Samples Compressor Engine Room Basement Floor Area

7 - PCB Analytical Results for Verification Concrete Wipe Samples Compressor Engine Room Basement Floor Area

APPENDICES

A - ERM-ROCKY MOUNTAIN, INC. DOCUMENTATION

B - BURLINGTON ENVIRONMENTAL INC DOCUMENTATION

C - SECOR INTERNATIONAL, INC. DOCUMENTATION

Report on
PCB Site Characterization and
Floor & Concrete Cleanup Activities
(FLRW.VI & VII)
at
Williams Natural Gas Company
Former Buffalo Compressor Station Location
March 8, 1995

SUMMARY

A. ERM-Rocky Mountain, Inc. (ERM) on April 18, 1994 conducted the site screening of the former Buffalo compressor station location to evaluate the potential for PCB contamination.

(1) Two wipe samples were collected by ERM from the air header; three water and two oil samples were collected from the basement; and seventeen soil samples were collected from areas where PCB contaminants were most likely to be present, e.g. earthen impoundments and former air receiver areas (Figure A).

(2) A total of twenty-four (24) samples (identified in A (1) above) were collected and submitted to Ross Analytical (Ross) and analyzed for polychlorinated biphenyls (PCBs).

(3) Analytical results indicated that one on-site soil sample (BUF-005-SO) from the former air receiver area exceeded the 25 mg/kg (ppm) action level, i.e. a PCB level of 38 ppm PCB 1254. Four additional on-site soil samples were reported having PCB levels between 9.4 and 21.0 ppm. The water, oil, wipe and other soil samples contained no PCBs above the laboratory detection limits (Table A). The reporting limit is identified in Table A.

B. Burlington Environmental Inc. (BEI) on August 25, 1994 performed a detailed concrete site characterization of the top floor (Figure 1) and the former pipe trench area (Figure 3) at the former Buffalo compressor station location to evaluate the potential of PCB contamination. Due to the collection of rainwater in the basement the detailed site characterization of the basement was postponed to a later date.

(1) A total of forty-eight (48) wipe samples were collected by Burlington from the upper level floor of the former compressor engine room and auxiliary building, walls of the engine pedestals, pipechase in the auxiliary building, associated metallic piping within the pipechase and from the air receiver header (Figure 1).

(2) The 48 wipe samples (identified in B (1) above) were collected and submitted to ETS Analytical, Inc. (ETS) for PCB analysis.

(3) Analytical results indicated that one auxiliary building floor wipe sample (BUF-COM-WP22) had a PCB level of 36 micrograms per one hundred square centimeters (ug/100cm^2) (Table 1). Seven auxiliary building pipe chase wipe samples (BUF-PC-WP1-6 and BUF-PC DRAIN) and one three inch header to the former air receivers (BUF-ARH-WP1) indicated levels of PCBs greater than 10 ug/100cm^2 (Table 2). The reporting limit is 1.0 mg/kg.

C. SECOR International, Inc. (SECOR) performed a detailed site characterization of the basement floor following cleanup of the non-PCB water, sludge and oil that had collected in the basement area (Figure 5). Subsequent to this site characterization of the basement floor SECOR performed detailed floor washing and concrete cleanup activities of the contaminated area (top floor) of the former auxiliary building (Figure 2A), contaminated area of the former pipe trench (top floor) of the former auxiliary building (Figure 4), and contaminated area of the basement of the former engine room at the former Buffalo compressor station location (Figure 6):

(1) On January 16 1995 SECOR collected composite soil, sediment and oil samples from the basement of the former Buffalo station and submitted to ETS Analytical for PCB analysis.

Analytical results indicated that composite soil, sediment and oil samples (T-BUF-CBAS-DIRT, T-BUF-CBAS-OIL and T-BUF-CBAS-SLUDGE) all had levels < 1.0 mg/kg (ppm) (Table 3). The reporting limit is 1.0 mg/kg.

(2) On January 17, 1995 SECOR performed concrete decontamination of the auxiliary building pipe chase identified from the Burlington concrete site characterization.

Analytical results indicated that verification samples (T-BUF-IPC-01A - 8A) all had levels < 1.0 ug/100cm^2 (Table 4). The reporting limit is 1.0 mg/kg.

(3) On January 19, 1995 SECOR performed concrete decontamination of the auxiliary building floor area identified from the Burlington concrete site characterization.

Analytical results indicated that verification samples (T-BUF-AUX-31A - 35A) all had levels < 1.0 ug/100cm^2 (Table 5). The reporting limit is 1.0 mg/kg.

(4) On February 1, 1995 SECOR performed concrete site characterization of the former Buffalo compressor station location basement.

Analytical results indicated that six compressor engine room basement floor wipe samples (T-BUF-CBAS-01 & 01REP, 05, 07, 18 and 23) had PCB levels of greater than 10 ug/100cm^2 (Table 6). The reporting limit is 1.0 mg/kg.

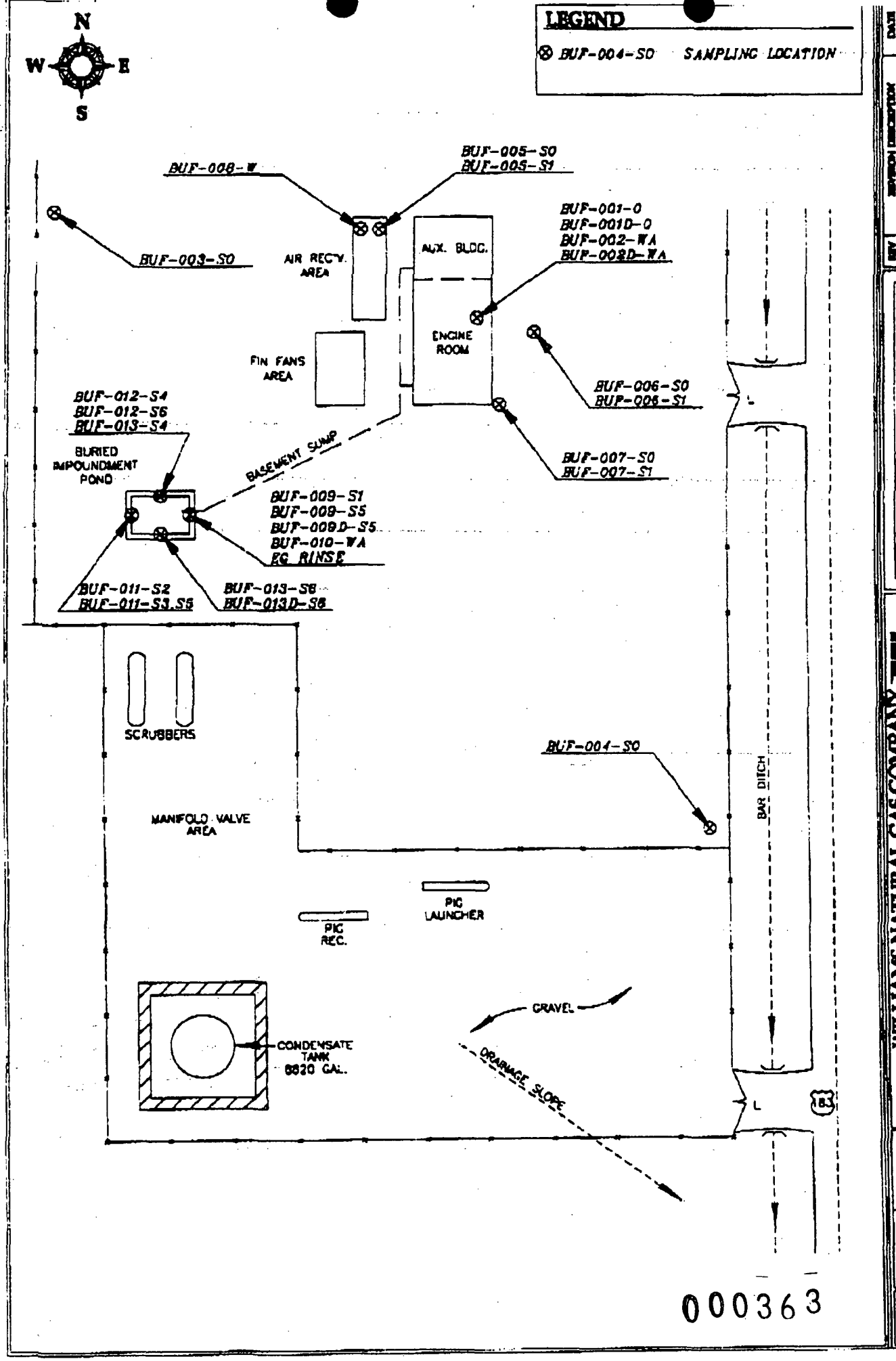
(5) On February 13, 1995 SECOR performed concrete decontamination of the former Buffalo compressor station location basement.

Analytical results indicated that verification wipe samples (BUF-CBAS-1A through 14A) all had levels < 10.0 ug/100cm^2 (Table 7). The reporting limit is 1.0 mg/kg.

(6) A total of 64 samples (identified in C (1) through C (5) above) were collected and submitted to ETS Analytical, Inc. (ETS) for PCB analysis.

FIGURES

FIGURE A



000363

REV	DESCRIPTION	DATE

ERM-Rocky Mountain, Inc.
ERM

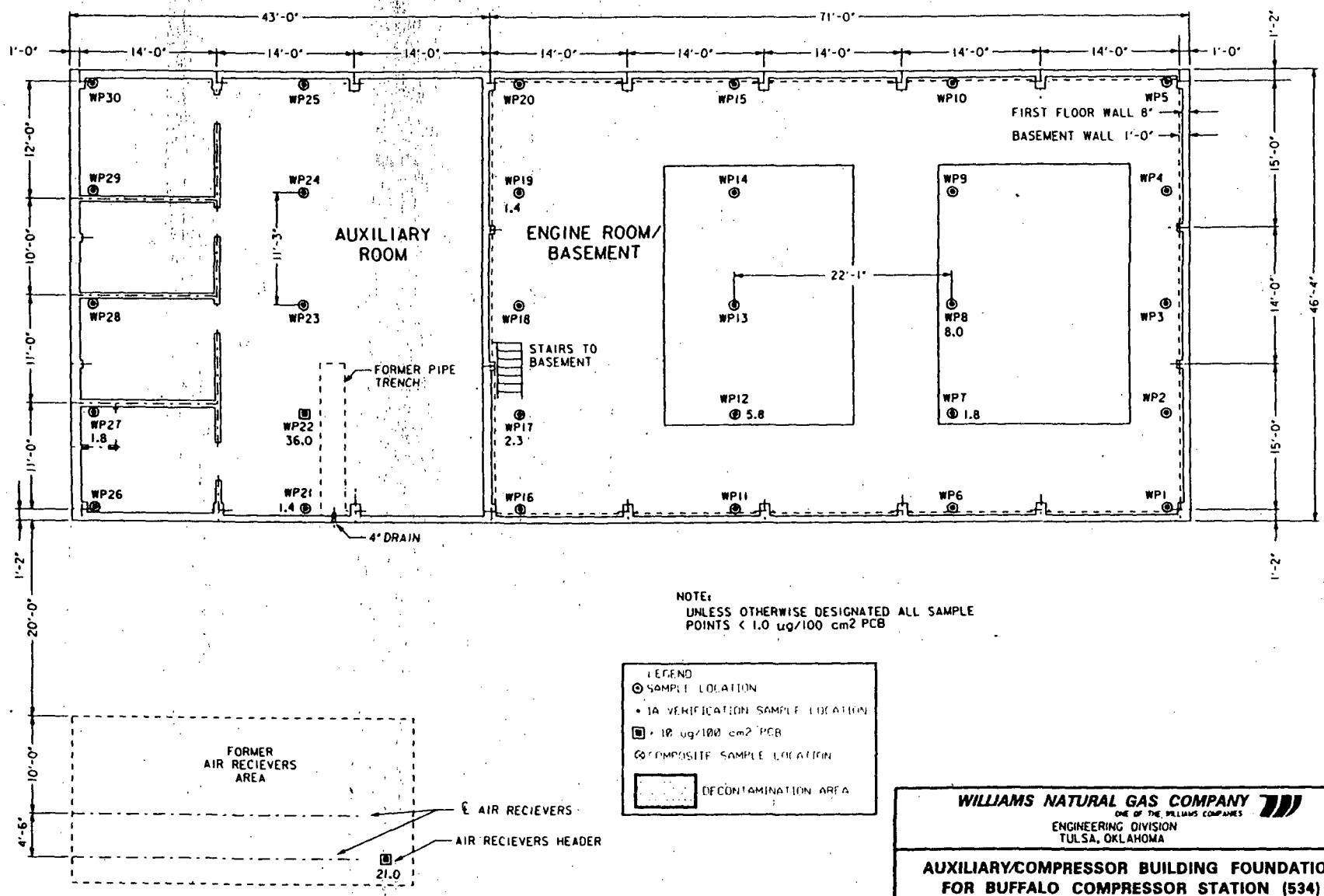
WILLIAMS NATURAL GAS COMPANY
ONE OF THE WILLIAMS COMPANIES
TULSA, OKLAHOMA

SITE LOCATION
BUFFALO COMPRESSOR STATION SEC. 1, T27N, R25W
HARPER COUNTY, OKLAHOMA

DESIGNED	PCR
DRAWN	JIG
CHECKED	
DATE	03/13/95
JOB NO.	941844.0
FILENAME	BUFFALO1

FIGURE 2

FIGURE 1



NOTE:
UNLESS OTHERWISE DESIGNATED ALL SAMPLE POINTS < 1.0 ug/100 cm2 PCB

LEGEND
- SAMPLE LOCATION
- 1A VERIFICATION SAMPLE LOCATION
- > 10 ug/100 cm2 PCB
- COMPOSITE SAMPLE LOCATION
- DECONTAMINATION AREA

WILLIAMS NATURAL GAS COMPANY
ONE OF THE WILLIAMS COMPANIES
ENGINEERING DIVISION
TULSA, OKLAHOMA

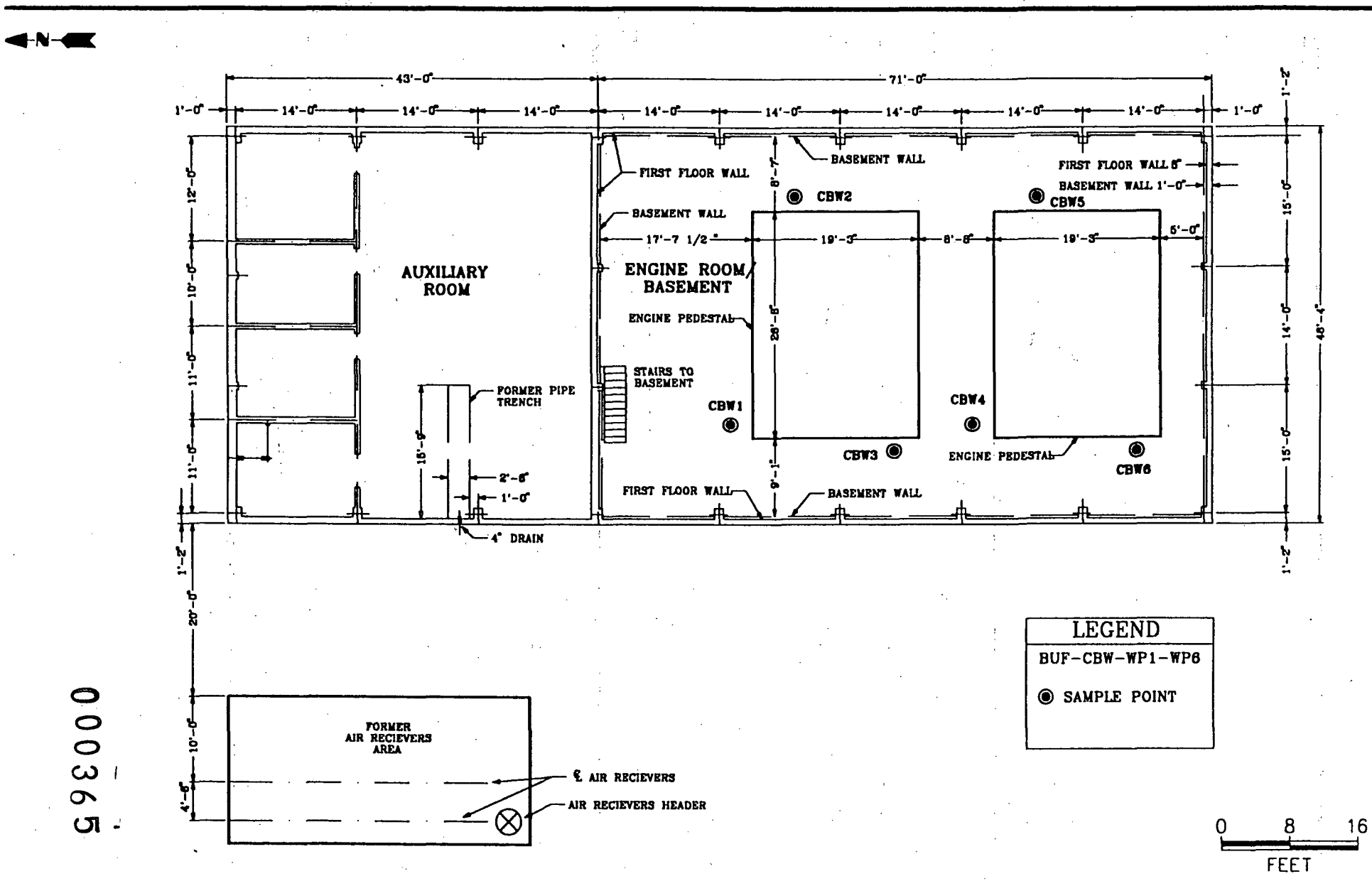
AUXILIARY/COMPRESSOR BUILDING FOUNDATION FOR BUFFALO COMPRESSOR STATION (534)

REVISIONS			
NO.	DATE	BY	

DRAWN: CLARK	DATE 2/27/95	APPROVED	
SCALE 1"=10'	DWG. NO.		REV. NO.

000364

FIGURE 2

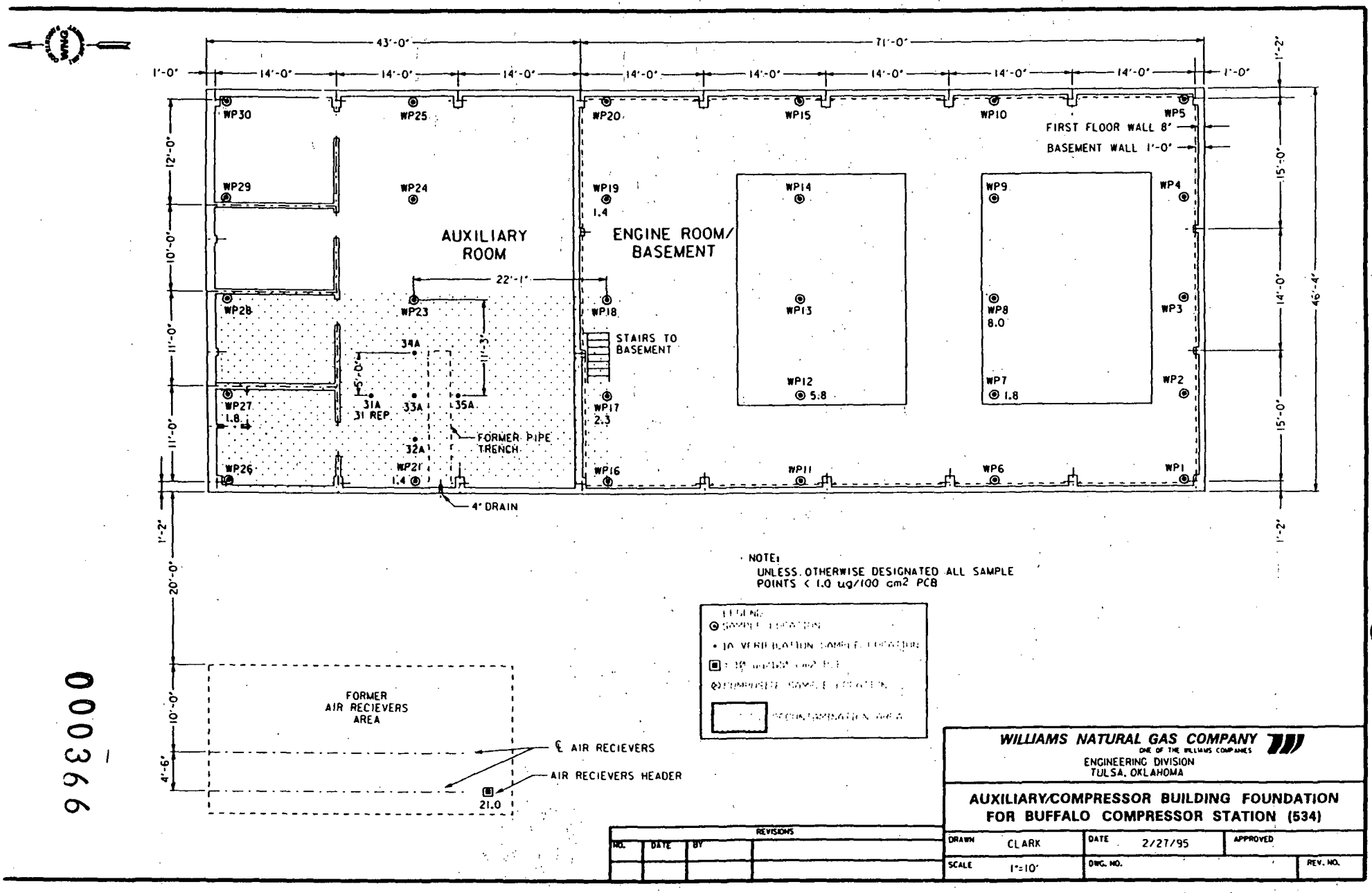


000365

BURLINGTON ENVIRONMENTAL
- A Philip Environmental Company -

TITLE:	DWN: KMO	DES.:	PROJECT NO.: 11885
WILLIAMS NATURAL GAS Buffalo, OK Walls of Compressor Building-Samples	CHKD:	APPD:	FIGURE NO.: 2
	DATE: 3/1/95	REV.:	

FIGURE 2A



WILLIAMS NATURAL GAS COMPANY
ONE OF THE WILLIAMS COMPANIES
ENGINEERING DIVISION
TULSA, OKLAHOMA

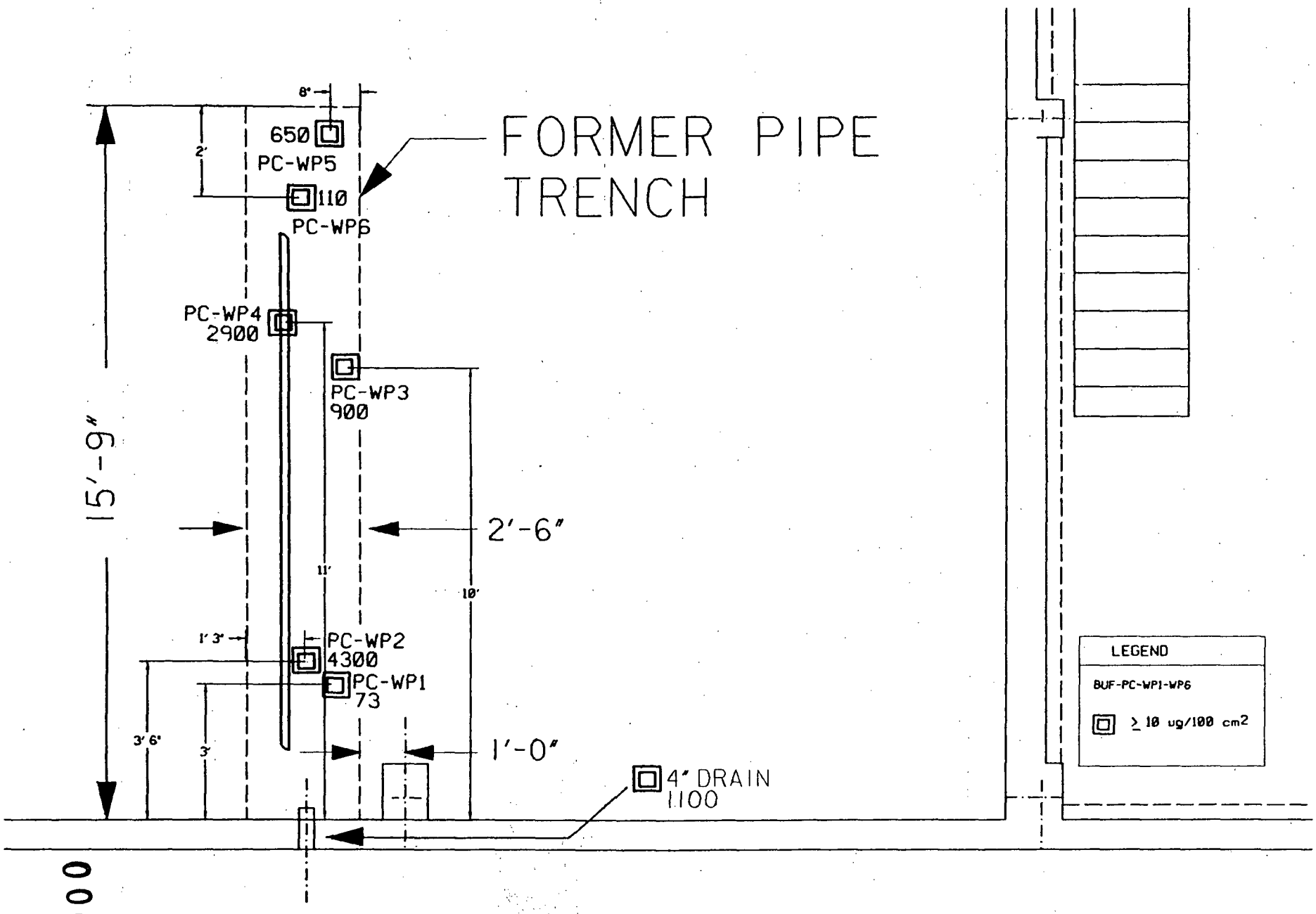
AUXILIARY/COMPRESSOR BUILDING FOUNDATION FOR BUFFALO COMPRESSOR STATION (534)

REVISIONS			
NO.	DATE	BY	

DRAWN CLARK	DATE 2/27/95	APPROVED	
SCALE 1"=10'	DWG. NO.		REV. NO.

000366

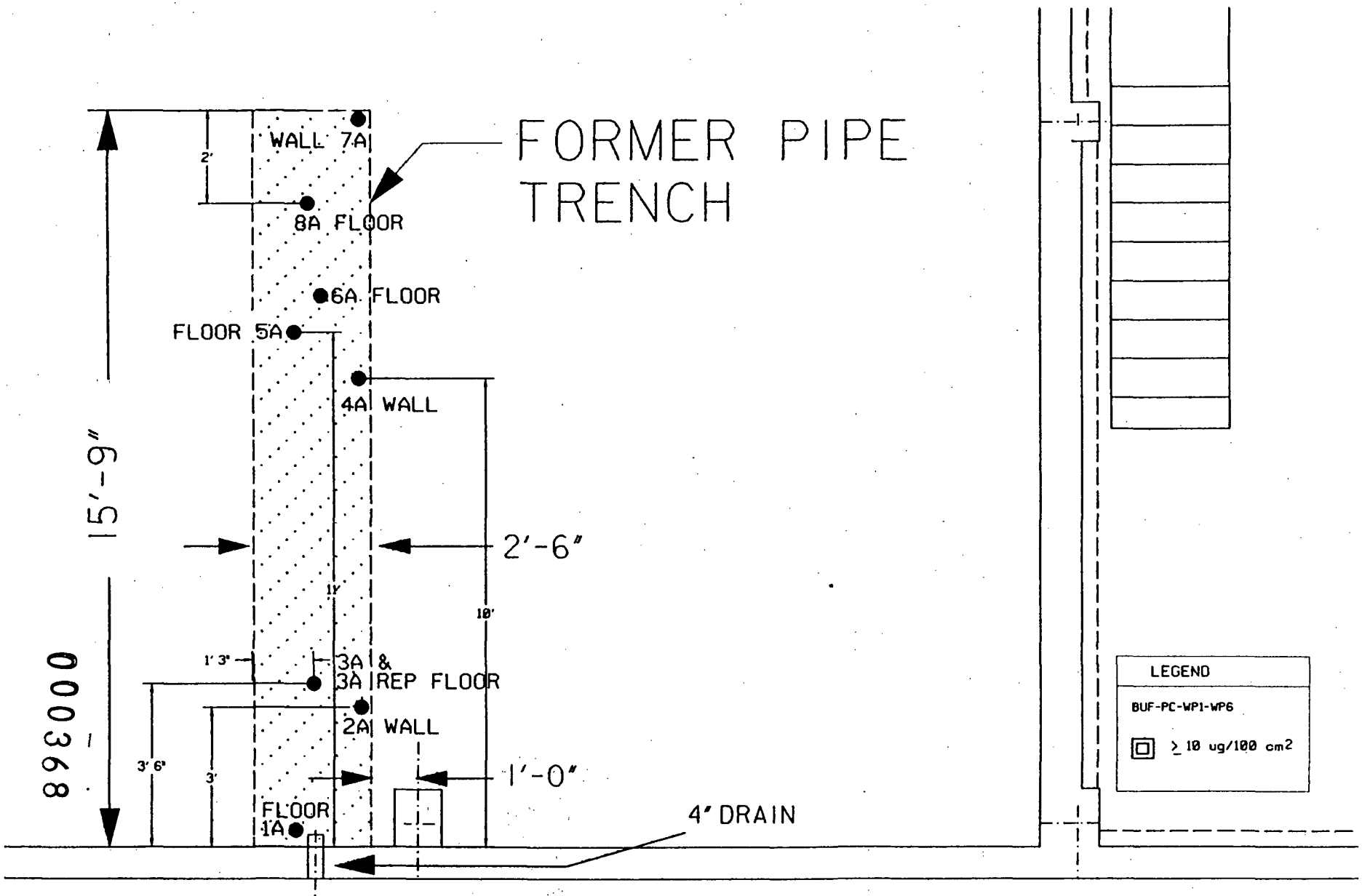
FIGURE 3



3/3/95

000367

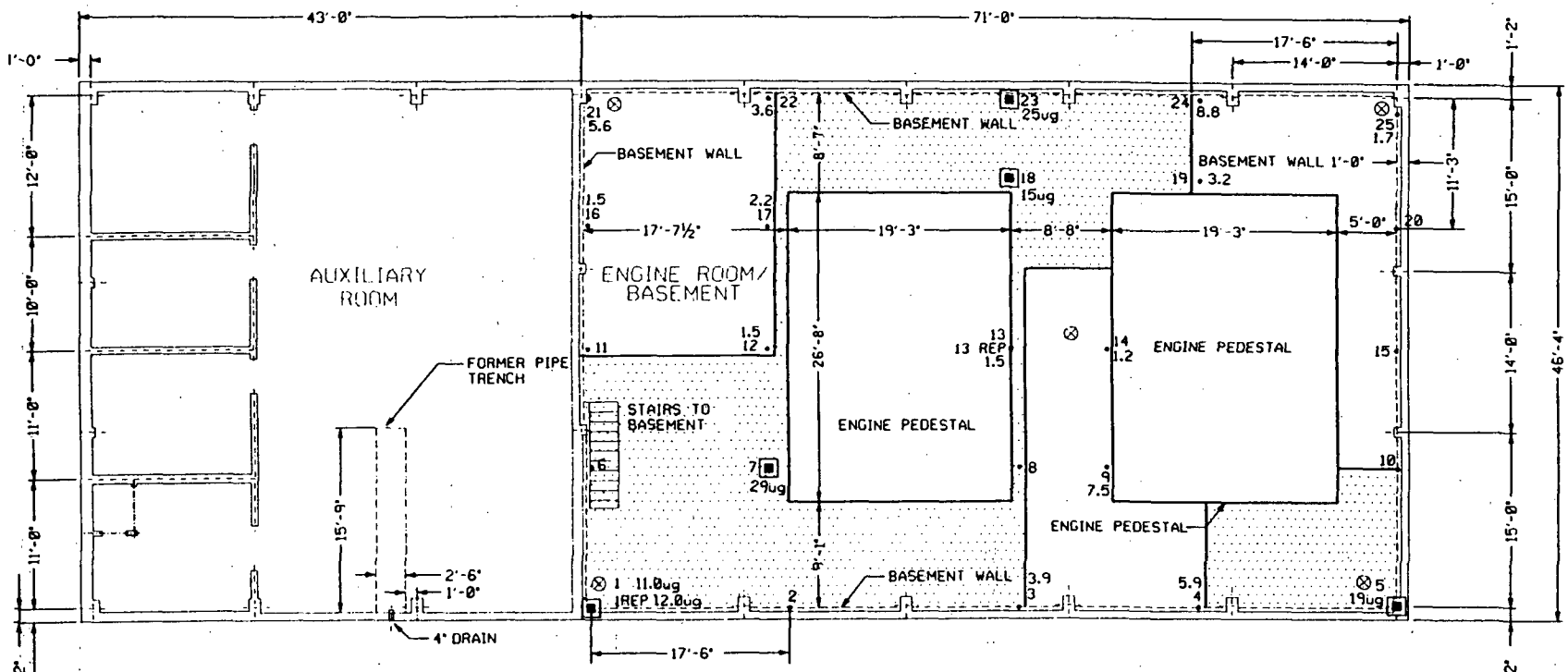
FIGURE 4



NOTE:
UNLESS OTHERWISE DESIGNATED ALL SAMPLE POINTS < 1.0 ug/100 cm2

000368

FIGURE 5



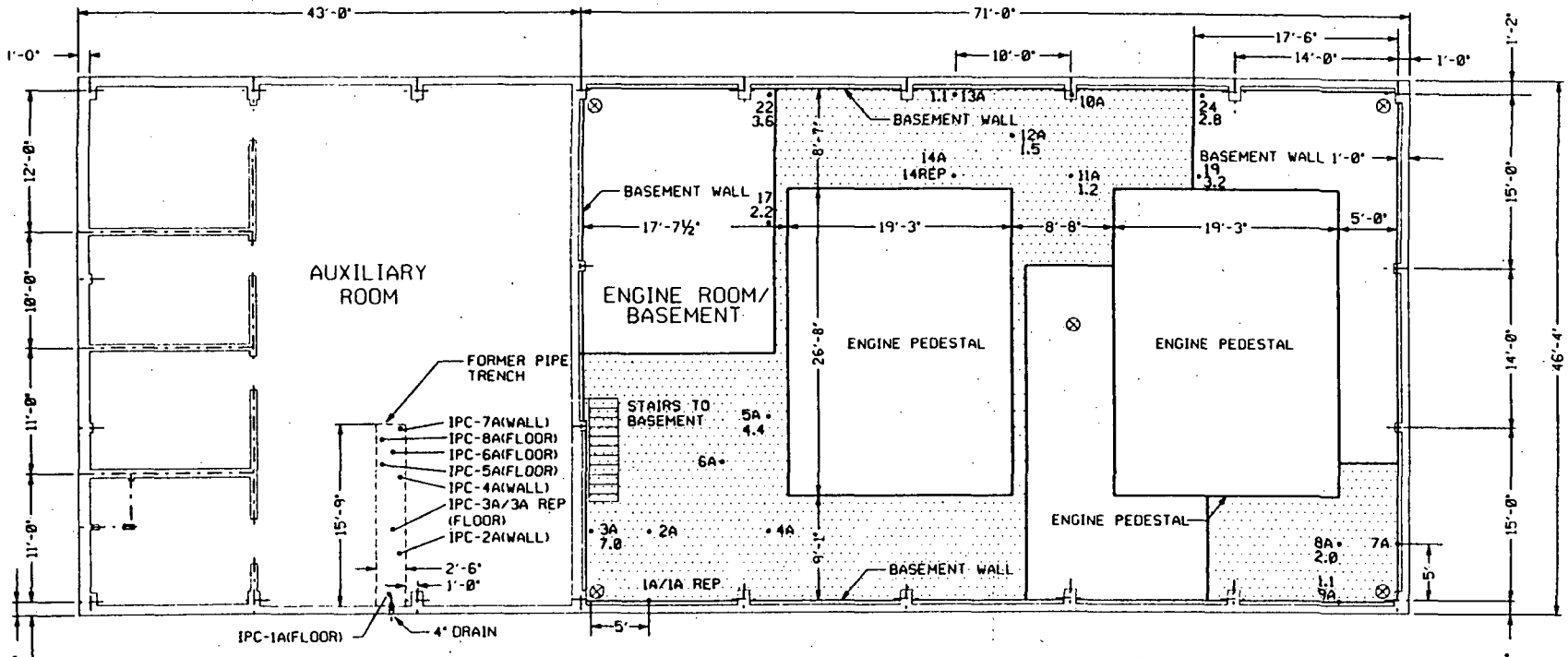
NOTE:
UNLESS OTHERWISE DESIGNATED ALL SAMPLE POINTS < 1.0 ug/100 cm2 PCB

LEGEND
- • SAMPLE LOCATION
- • 1A VERIFICATION SAMPLE LOCATION
- ■ ≥ 10 ug/100 cm2 PCB
- ⊗ COMPOSITE SAMPLE LOCATION
- DECONTAMINATION AREA

DRAWN BY: STEVE DUCHARME	PROJECT NO: V0041-001-01	SECOR
REVIEWED BY: BARBARA MINETTE	DATE: 10/94	BUFFALO (OK) (534) FIGURE 4 OF 4 COMPRESSOR BLDG. BASEMENT AND AUXILIARY ROOM CHARACTERIZATION SAMPLE LOCATIONS
NORTH	SCALE (NOT TO SCALE) 0 5' 10'	

000369

FIGURE 6



DRAWN BY: STEVE DUCHARME	PROJECT NO: V0841-001-01	SECOR
REVIEWED BY: BARBARA MINETTE	DATE: 10/94	BUFFALO (OK) (534) FIGURE 3 OF 4 COMPRESSOR BLDG. BASEMENT AND AUXILIARY ROOM VERIFICATION SAMPLE LOCATIONS
NORTH	SCALE (NOT TO SCALE) 0 5' 10'	

000370

TABLES

Williams Natural Gas

TABLE A

Client Sample ID	RASI Work Order	Matrix	Date Extracted	Date Analyzed	Dil. Factor	Reporting Units	PCB-1016	EQL	PCB-1221	EQL	PCB-1232	EQL	PCB-1242	EQL	PCB-1248	EQL	PCB-1254	EQL	PCB-1260	EQL	Surrogate TCMX	Surrogate DCBP
BUF-001-O	94-04-307-01	Oil	04/26/94	05/02/94	21	mg/Kg	<EQL	21	<EQL	42	<EQL	21	<EQL	21	<EQL	21	<EQL	21	<EQL	21	89 %	121 %
BUF-001D-O	94-04-307-02	Oil	04/26/94	05/02/94	21	mg/Kg	<EQL	21	<EQL	42	<EQL	21	<EQL	21	<EQL	21	<EQL	21	<EQL	21	0	132 %
BUF-002-WA	94-04-307-03	Water	04/26/94	05/03/94	100	mg/L	<EQL	0.050	<EQL	0.10	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050		
BUF-002D-WA	94-04-307-04	Water	04/26/94	05/03/94	100	mg/L	<EQL	0.050	<EQL	0.10	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050	<EQL	0.050		
BUF-003-SO	94-04-307-05	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-004-SO	94-04-307-06	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-005-S1	94-04-307-08	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	11 *	0.87	<EQL	0.87		
BUF-005-SO	94-04-307-07	Soil	04/27/94	04/28/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	38 *	0.87	<EQL	0.87		
BUF-006-S1	94-04-307-10	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-006-SO	94-04-307-09	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-007-S1	94-04-307-12	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-007-SO	94-04-307-11	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-008-W	94-04-307-13	Wipe	04/27/94	04/28/94	1	Total ug	<EQL	1.0	<EQL	2.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	103 %	124 %
BUF-008D-W	94-04-307-14	Wipe	04/27/94	04/28/94	1	Total ug	<EQL	1.0	<EQL	2.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	<EQL	1.0	69 %	108 %
BUF-009-S1	94-04-307-15	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-009-S5	94-04-307-16	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	17	<EQL	34	<EQL	17	<EQL	17	<EQL	17	9.4	0.87	<EQL	0.87		
BUF-009D-S5	94-04-307-25	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	13 *	0.87	<EQL	0.87		
BUF-010-WA	94-04-307-17	Water	04/26/94	05/02/94	1	mg/L	<EQL	0.001	<EQL	0.002	<EQL	0.001	<EQL	0.001	<EQL	0.001	<EQL	0.001	<EQL	0.001		50 %
BUF-011-S2	94-04-307-18	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-011-S3.5	94-04-307-19	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	21 *	0.87	<EQL	0.87		
BUF-012-S4	94-04-307-20	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-013-S4	94-04-307-22	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-013-S6	94-04-307-23	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		
BUF-013D-S6	94-04-307-24	Soil	05/02/94	05/04/94	51	mg/Kg	<EQL	0.87	<EQL	1.7	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87	<EQL	0.87		

* Denotes Value Exceeding Action Limit

Table 1
PCB Analytical Results for Concrete Wipe Samples
Compressor/Auxiliary Building
August 25, 1994
(Figure 1)

Sample Identification	PCB Level (μg/100 cm^2)	Comments
BUF-COM-WP1	ND(1.0)	Wipe Sample
BUF-COM-WP1D	ND(1.0)	Duplicate Wipe Sample
BUF-COM-WP2	ND(1.0)	Wipe Sample
BUF-COM-WP3	ND(1.0)	Wipe Sample
BUF-COM-WP4	ND(1.0)	Wipe Sample
BUF-COM-WP5	ND(1.0)	Wipe Sample
BUF-COM-WP6	ND(1.0)	Wipe Sample
BUF-COM-WP7	1.8	Wipe Sample
BUF-COM-WP8	8.0	Wipe Sample
BUF-COM-WP9	ND(1.0)	Wipe Sample
BUF-COM-WP10	ND(1.0)	Wipe Sample
BUF-COM-WP11	ND(1.0)	Wipe Sample
BUF-COM-WP12	5.8	Wipe Sample
BUF-COM-WP13	ND(1.0)	Wipe Sample
BUF-COM-WP13D	ND(1.0)	Duplicate Wipe Sample
BUF-COM-WP14	ND(1.0)	Wipe Sample
BUF-COM-WP15	ND(1.0)	Wipe Sample
BUF-COM-WP16	ND(1.0)	Wipe Sample
BUF-COM-WP17	2.3	Wipe Sample
BUF-COM-WP18	ND(1.0)	Wipe Sample
BUF-COM-WP19	1.4	Wipe Sample
BUF-COM-WP20	ND(1.0)	Wipe Sample
BUF-COM-WP21	1.4	Wipe Sample
BUF-COM-WP22	**36**	Wipe Sample
BUF-COM-WP23	ND(1.0)	Wipe Sample
BUF-COM-WP23D	ND(1.0)	Duplicate Wipe Sample
BUF-COM-WP24	ND(1.0)	Wipe Sample
BUF-COM-WP25	ND(1.0)	Wipe Sample
BUF-BLANK	ND(1.0)	Field Blank
BUF-COM-WP26	ND(1.0)	Wipe Sample
BUF-COM-WP27	1.8	Wipe Sample
BUF-COM-WP28	ND(1.0)	Wipe Sample
BUF-COM-WP29	ND(1.0)	Wipe Sample
BUF-COM-WP30	ND(1.0)	Wipe Sample

μg/100 cm^2 = micrograms per 100 square centimeters
ND = Not Detected; Detection limit indicated in parentheses.

Table 2
PCB Analytical Results for Surface Wipe Samples
Pipechase and Walls of the Compressor Basement
August 25, 1994
(Figures 2 and 3)

Sample Identification	PCB Level (μg/100 cm^2)	Comments
BUF-PC-WP1	**73**	Pipechase, Wipe Sample
BUF-PC-WP2	**4300**	Pipechase, Wipe Sample
BUF-PC-WP3	**900**	Pipechase, Wipe Sample
BUF-PC-WP4	**2900**	2-inch Pipe in Pipechase, Wipe Sample
BUF-PC-WP5	**650**	Pipechase, Wipe Sample
BUF-PC-WP6	**110**	Pipechase, Wipe Sample
BUF-PC-DRAIN	**1100**	Drip Drain in Pipechase, Wipe Sample
BUF-CBW-WP1	ND(1.0)	Compressor Basement Wall, Wipe Sample*
BUF-CBW-WP2	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP3	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP4	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP5	ND(1.0)	Compressor Basement Wall, Wipe Sample
BUF-CBW-WP6	1.1	Compressor Basement Wall, Wipe Sample
BUF-ARH-WP1	**21**	3-inch Header to the Air Receivers, West Side, Wipe Sample

μg/100 cm^2 = micrograms per 100 square centimeters
ND = Not Detected; Detection limit indicated in parentheses.
* Walls of the Compressor Basement Wipe Samples (BUF-CBW-WP1 through BUF-CBW-WP6) collected approximately two feet below steel grating.

Table 3
PCB Analytical Results for Composite Soil, Sediment and Oil Samples of the Engine Room Basement
January 16, 1995
(Figures 5 and 6)

Sample Identification	PCB level (mg/kg)	Comments
T-BUF-CBAS-DIRT	ND (1.0)	Basement, Soil
T-BUF-CBAS-OIL	ND (1.0)	Basement, Oil
T-BUF-CBAS-SLUDGE	ND (1.0)	Basement, Sludge

mg/kg = milligrams per kilogram (ppm)
ND = Not Detected; (Detection Limit indicated in parentheses.

Table 4
PCB Analytical Results for Verification Surface Wipe Samples
Pipechase of the Former Auxiliary Building (top floor)
January 17, 1995
(Figure 4)

Sample Identification	PCB level (ug/100cm^2)	Comments
T-BUF-IPC-01A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-02A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-03A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-03A REP	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-04A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-05A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-06A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-07A	ND (1.0)	Pipechase, Wipe
T-BUF-IPC-08A	ND (1.0)	Pipechase, Wipe

ug/100cm^2 = micrograms per 100 square centimeters
ND = Not Detected; (Detection Limit indicated in parentheses.

Table 5
PCB Analytical Results for Verification Concrete Wipe Samples
Auxiliary Building Floor Area
January 19, 1995
(Figure 2)

Sample Identification	PCB level (ug/100cm^2)	Comments
T-BUF-AUX-31A	ND (1.0)	Auxiliary, Wipe
T-BUF-AUX-31A REP	ND (1.0)	Auxiliary, Wipe
T-BUF-AUX-32A	ND (1.0)	Auxiliary, Wipe
T-BUF-AUX-33A	ND (1.0)	Auxiliary, Wipe
T-BUF-AUX-34A	ND (1.0)	Auxiliary, Wipe
T-BUF-AUX-35A	ND (1.0)	Auxiliary, Wipe
T-BUF-BLNK	ND (1.0)	Auxiliary, Wipe

ug/100cm^2 = micrograms per 100 square centimeters
ND = Not Detected; (Detection Limit indicated in parentheses.

Table 6
PCB Analytical Results for Concrete Wipe Samples Compressor Engine Room Basement Floor Area, February 1, 1995
(Figure 5)

Sample Identification	PCB level (ug/100cm^2)	Comments
T-BUF-CBAS-01	**11**	Basement, Wipe
T-BUF-CBAS-01 REP	**12**	Wipe, Duplicate
T-BUF-CBAS-02	ND (1.0)	Basement, Wipe
T-BUF-CBAS-03	3.9	Basement, Wipe
T-BUF-CBAS-04	5.9	Basement, Wipe
T-BUF-CBAS-05	**19**	Basement, Wipe
T-BUF-CBAS-06	ND (1.0)	Basement, Wipe
T-BUF-CBAS-07	**29**	Basement, Wipe
T-BUF-CBAS-08	ND (1.0)	Basement, Wipe
T-BUF-CBAS-09	7.5	Basement, Wipe
T-BUF-CBAS-10	ND (1.0)	Basement, Wipe
T-BUF-CBAS-11	ND (1.0)	Basement, Wipe
T-BUF-CBAS-12	1.5	Basement, Wipe
T-BUF-CBAS-13	ND (1.0)	Basement, Wipe
T-BUF-CBAS-13 REP	1.5	Wipe, Duplicate
T-BUF-CBAS-14	1.2	Basement, Wipe
T-BUF-CBAS-15	ND (1.0)	Basement, Wipe
T-BUF-CBAS-16	1.5	Basement, Wipe
T-BUF-CBAS-17	2.2	Basement, Wipe
T-BUF-CBAS-18	**15**	Basement, Wipe
T-BUF-CBAS-19	3.2	Basement, Wipe
T-BUF-CBAS-20	ND (1.0)	Basement, Wipe
T-BUF-CBAS-21	5.6	Basement, Wipe
T-BUF-CBAS-22	3.6	Basement, Wipe
T-BUF-CBAS-23	**25**	Basement, Wipe
T-BUF-CBAS-24	8.8	Basement, Wipe
T-BUF-CBAS-25	1.7	Basement, Wipe

ug/100cm^2 = micrograms per 100 square centimeters
ND = Not Detected; (Detection Limit indicated in parentheses.

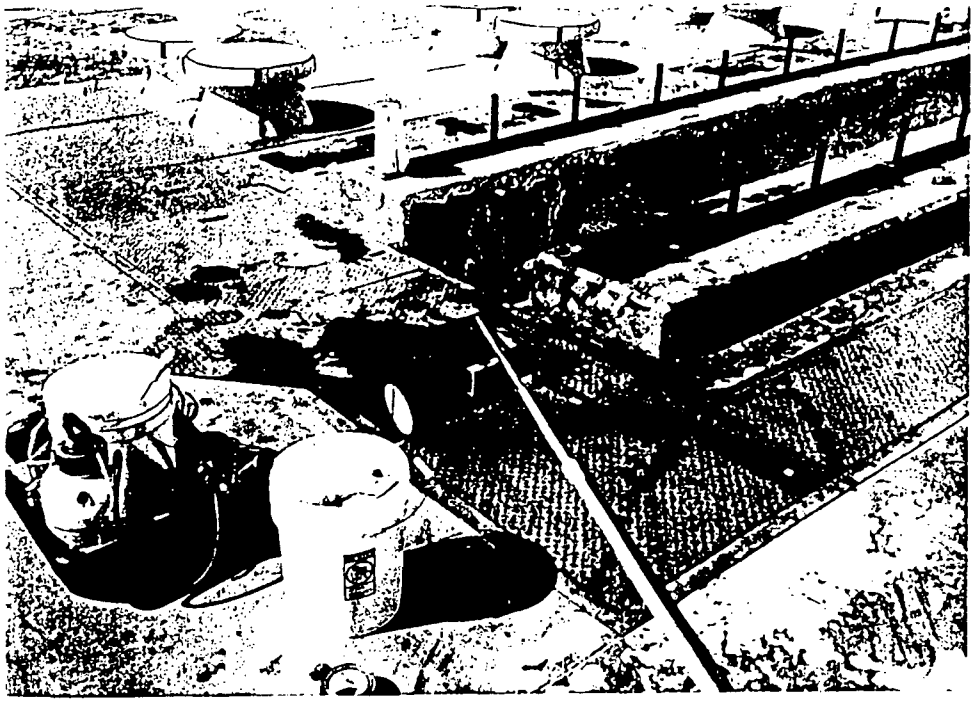
Table ~~6~~ 7
PCB Analytical Results for Verification Concrete Wipe Samples
Compressor Engine Room Basement Floor Area
February 13, 1995
(Figure 6)

Sample Identification	PCB level (ug/100cm^2)	Comments
BUF-BLANK	ND (1.0)	Blank
BUF-CBAS-1A	ND (1.0)	Basement, Wipe
BUF-CBAS-1A REP	ND (1.0)	Wipe, Duplicate
BUF-CBAS-2A	ND (1.0)	Basement, Wipe
BUF-CBAS-3A	7.0	Basement, Wipe
BUF-CBAS-4A	ND (1.0)	Basement, Wipe
BUF-CBAS-5A	4.4	Basement, Wipe
BUF-CBAS-6A	ND (1.0)	Basement, Wipe
BUF-CBAS-7A	ND (1.0)	Basement, Wipe
BUF-CBAS-8A	2.0	Basement, Wipe
BUF-CBAS-9A	1.1	Basement, Wipe
BUF-CBAS-10A	ND (1.0)	Basement, Wipe
BUF-CBAS-11A	1.2	Basement, Wipe
BUF-CBAS-12A	1.5	Basement, Wipe
BUF-CBAS-13A	1.1	Basement, Wipe
BUF-CBAS-14A	ND (1.0)	Basement, Wipe
BUF-CBAS-14A REP	ND (1.0)	Basement, Wipe

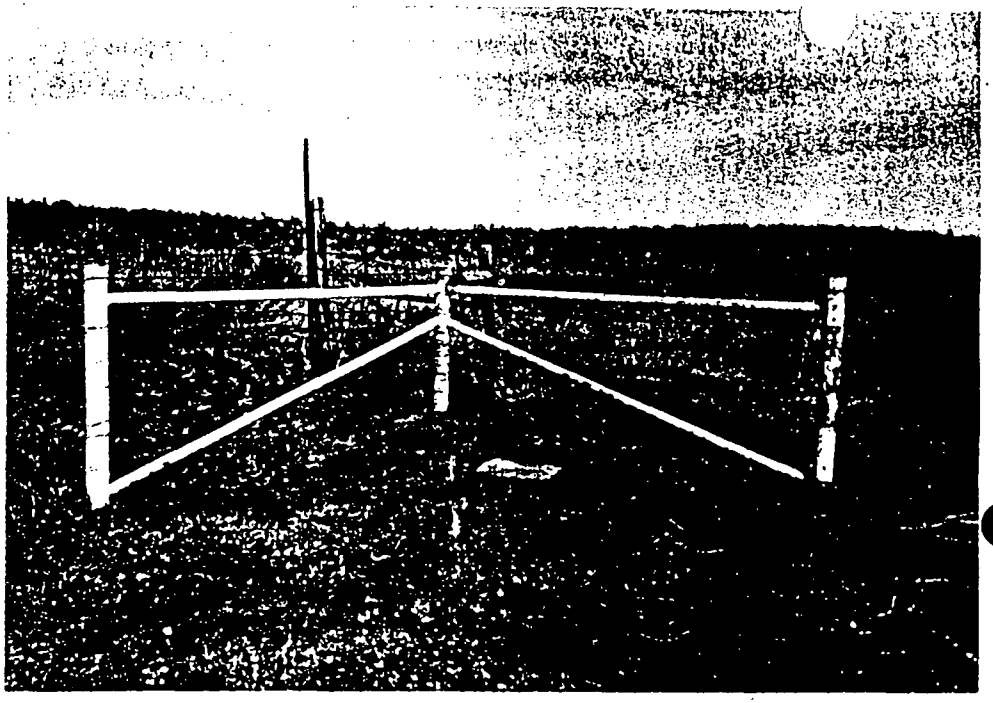
ug/100cm^2 = micrograms per 100 square centimeters
ND = Not Detected; (Detection Limit indicated in parentheses.

APPENDIX A

ERM-Rocky Mountain, Inc. Documentation



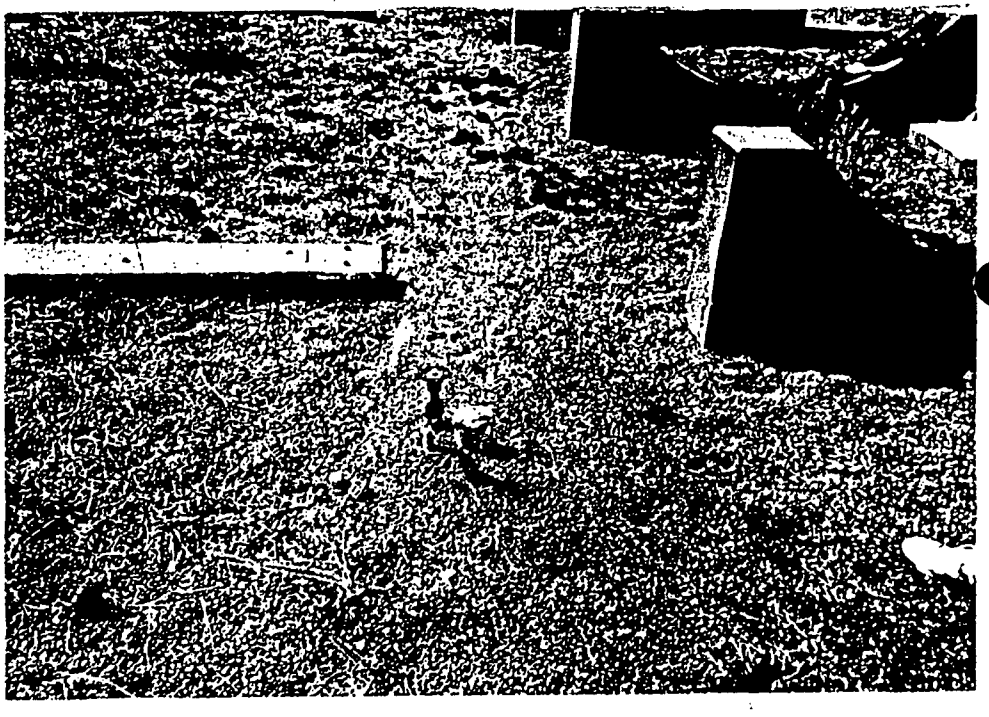
Basement (BUF-001(D)-0) (BUF-002(D)-WA).



Upgradient of Site (BUF-003-S0).

000381

Downgradient of Site (BUF-004-S0).



Former Air Receiver (BUF-005-S0 & S1).

APPENDIX B

ETS Analytical Results

ETS Analytical Services, Inc.

Proudly serving industry and government since 1973.

A USEPA Contract Laboratory

A subsidiary of ETS International, Inc.

September 23, 1994

Mr. Douglas E. Birkbeck
Williams Natural Gas
One Williams Center
Mail Drop 31-1
Tulsa, Oklahoma 74101

Dear Mr. Birkbeck:

Enclosed please find the analytical data for forty eight (48) wipe samples which were analyzed for PCB's by EPA Method 8080 and are being reported in CLP format modified for reporting of PCB's only. These samples are wipe samples which were analyzed under Williams Gas CSC.VI-Contract (BUF). The chains of custody and sample login forms are attached.

As previously stated, the CLP reporting format (forms) required some modification for reporting of PCB only data, as specified below:

Form 1:	Only Aroclors listed (single component pesticides deleted).
Form 2:	No modifications required.
Form 3:	Modified to specify Aroclors as the spike "compounds". A similar form was created to report lab duplicate data (not required by CLP or Method 8080, but specified in the ETS Quality Assurance Plan).
Form 4:	No modifications required.
Form 5:	Not applicable to GC analyses.
Form 6:	Modified to accommodate reporting of five-point calibration data for Aroclors only.
Form 7:	Modified to accommodate reporting of continuing calibration data for Aroclors only. A similar form was created to accommodate reporting of initial calibration verification data (not required by CLP or Method 8080, but specified in the ETS Quality Assurance Plan). The Form 7 (continuing calibration) format has been expanded to include the run ID in order to facilitate more streamlined data validation.
Form 8:	No modifications required. Retention time windows of +/-0.1 min for TCMX and +/- 0.2 min for DCB were adopted by the laboratory, since retention time windows are not specified by Method 8080.

Williams Natural Gas - Report of 9/23/94

Comments concerning the specific analytical data contained in this report are presented in the following paragraphs:

Lab duplicates were conducted in accordance with the ETS QA plan. Blank spikes were also performed to comply with the statement of work for this project. Sample ID terminology has been defined in previous reports.

No unusual problems were encountered in the analysis of these samples.

The diskette was prepared using Lotus 123 (rev 2.4), in the format used previously. Data for three stations are presented on a single diskette, but with separate files for each of the stations.

If there are any questions regarding these data, please feel free to contact me at any time.

Sincerely yours,

Richard R. Whitney, Ph.D.
Organics Department Manager

cc: Steve Thornton
Burlington Environmental, Inc.
Huston, TX

WILLIAMS NATURAL GAS: CUSTOMIZED REPORT FOR PCB DATA

LOCATION: BUF, PCB Line Cleaning
REPORT DATE: 9/23/94
SDG: 163231
LABORATORY: ETS ANALYTICAL SERVICES

WMS GAS ID	LAB ID	MATRIX	DESCRIPTION	Aroclor 1016	1221	1232	1242	1248	1254	1260	UNITS	DET LIM	ANALYBY	ANALYZED DATE	TIME
BUF-COM-WP1	163231	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1034
BUF-COM-WP2	163232	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1126
BUF-COM-WP3	163233	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1152
BUF-COM-WP4	163234	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1218
BUF-COM-WP5	163235	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1244
BUF-COM-WP6	163236	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1310
BUF-COM-WP7	163237	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U	ug Total	1.0	TJM	09/09/94	1428
BUF-COM-WP8	163238	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0	1.0 U	ug Total	1.0	TJM	09/09/94	1454
BUF-COM-WP9	163239	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1521
BUF-COM-WP10	163240	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1547
BUF-COM-WP11	163241	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1617
BUF-COM-WP12	163242	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.8	1.0 U	ug Total	1.0	TJM	09/09/94	1709
BUF-COM-WP13	163243	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1735
BUF-COM-WP14	163244	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1801
BUF-COM-WP15	163245	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1827
BUF-COM-WP16	163246	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	1945
BUF-COM-WP17	163247	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.3	1.0 U	ug Total	1.0	TJM	09/09/94	2011
BUF-COM-WP18	163248	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	2037
BUF-COM-WP19	163249	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	ug Total	1.0	TJM	09/09/94	2104
BUF-COM-WP20	163250	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/09/94	2130
BUF-COM-WP21	163251	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	ug Total	1.0	TJM	09/09/94	2314
BUF-COM-WP22	163252	WIPE	BUF, 3581.77, D195	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	36	1.0 U	ug Total	1.0	TJM	09/10/94	0058
BUF-COM-WP23	163253	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0124
BUF-COM-WP24	163254	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0150
BUF-COM-WP25	163255	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0217
BUF-COM-WP1D	163256	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	024[illegible]
BUF-COM-WP13D	163257	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	030[illegible]
BUF-COM-WP23D	163258	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0335
BUF-BLANK	163259	WIPE	BUF, 3581.77, D196	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0401
BUF-COM-WP26	163260	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0427
BUF-COM-WP27	163261	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U	ug Total	1.0	TJM	09/10/94	0453
BUF-COM-WP28	163262	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/13/94	1506
BUF-COM-WP29	163263	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0704
BUF-COM-WP30	163264	WIPE	BUF, 3581.77, D191	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	0730
BUF-PC-WP1	163265	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	73	1.0 U	ug Total	1.0	TJM	09/10/94	0756
BUF-PC-WP2	163266	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4300	1.0 U	ug Total	1.0	TJM	09/13/94	1027
BUF-PC-WP3	163267	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	900	1.0 U	ug Total	1.0	TJM	09/13/94	1053
BUF-PC-WP4	163268	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2900	1.0 U	ug Total	1.0	TJM	09/13/94	1646
BUF-PC-WP5	163269	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	650	1.0 U	ug Total	1.0	TJM	09/13/94	1711
BUF-PC-WP6	163270	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	110	1.0 U	ug Total	1.0	TJM	09/10/94	1006

000385

/ILLIAMS NATURAL GAS: CUSTOMIZED REPORT FOR PCB DATA

.OCATION: BUF, PCB Line Cleaning
REPORT DATE: 9/23/94
SDG: 163231
.ABORATORY: ETS ANALYTICAL SERVICES

				Aroclor										ANALYZED	
/MS GAS ID	LAB ID	MATRIX	DESCRIPTION	1016	1221	1232	1242	1248	1254	1260	UNITS	DET LIM	ANALYBY	DATE	TIME
3UF-PC-DRAW	163271	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1100	1.0 U	ug Total	1.0	TJM	09/13/94	1736
3UF-CBW-WP1	163272	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1217
3UF-CBW-WP2	163273	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1243
3UF-CBW-WP3	163274	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1309
3UF-CBW-WP4	163275	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1335
3UF-CBW-WP5	163276	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	ug Total	1.0	TJM	09/10/94	1402
3UF-CBW-WP6	163277	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	ug Total	1.0	TJM	09/10/94	1427
3UF-ARH-WP1	163278	WIPE	BUF, 3581.77, D194	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	21	1.0 U	ug Total	1.0	TJM	09/10/94	1453

000386

APPENDIX C

ANALYTICAL REPORTS

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

Williams Natural Gas
1 Williams Center, MD 31-3
Tulsa, OK 74172

Attn: Doug Birckbeck

Work Order #: 94-04-307
Client Code: WILLIAMS_GAS
Report Date: 05/06/94
Work ID: Samples for PCB's
Date Received: 04/22/94

Purchase Order: Buffalo Station

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Oil BUF-001-O	02	Oil BUF-001D-O
03	Water BUF-002-WA	04	Water BUF-002D-WA
05	Soil BUF-003-SO	06	Soil BUF-004-SO
07	Soil BUF-005-SO	08	Soil BUF-005-S1
09	Soil BUF-006-SO	10	Soil BUF-006-S1
11	Soil BUF-007-SO	12	Soil BUF-007-S1
13	Wipe BUF-008-W	14	Wipe BUF-008D-W
15	Soil BUF-009-S1	16	Soil BUF-009-S5
17	Water BUF-010-WA	18	Soil BUF-011-S2
19	Soil BUF-011-S3.5	20	Soil BUF-012-S4
21	Soil BUF-012-S6	22	Soil BUF-013-S4
23	Soil BUF-013-S6	24	Soil BUF-013D-S6
25	Soil BUF-009D-S5		

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

000388

Sample BUF-12-S6 (Lab No. 21) was voided at your request and so has no results to report.

REPORT COMMENTS

The surrogate recoveries from the soils which were analyzed at 1:51 dilutions could not be calculated because of the dilutions.

The EQL's of most of the PCB's in sample BUF-009-S5 (Lab No. 16) were raised because of matrix interferences.

The recovery of the surrogate tetrachloro-m-xylene from sample BUF-010-WA (Lab No. 17) could not be calculated because of matrix interferences.

TEST METHODOLOGIES

PCB's were determined using gas chromatography with electron capture detection as in EPA Method 8080.

Aqueous samples and leachates were extracted for organochlorine pesticides and PCB's in a continuous extractor using methylene chloride as in EPA Method 3520.

Organic liquid and semi-solid wastes were diluted with hexane for organochlorine pesticide and PCB analysis as in EPA Method 3580.

Solid and semisolid samples extracted for organochlorine pesticides and PCB's in an ultrasonic extractor using methylene chloride and acetone as in EPA Method 3550.

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Oil BUF-001-0 Lab No. 01
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/02/94 DILUTION FACTOR 21 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	21
11104-28-2	PCB-1221	<EQL	42
11141-16-5	PCB-1232	<EQL	21
53469-21-9	PCB-1242	<EQL	21
12672-29-6	PCB-1248	<EQL	21
11097-69-1	PCB-1254	<EQL	21
11096-82-5	PCB-1260	<EQL	21

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	89	24 - 130
Decachlorobiphenyl	121	38 - 162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Oil BUF-001D-0 Lab No: 02
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 06/26/94 DATE RUN 05/02/94 DILUTION FACTOR 21 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	21
11104-28-2	PCB-1221	<EQL	42
11141-16-5	PCB-1232	<EQL	21
53469-21-9	PCB-1242	<EQL	21
12672-29-6	PCB-1248	<EQL	21
11097-69-1	PCB-1254	<EQL	21
11096-82-5	PCB-1260	<EQL	21

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	0 Q	24 -	130
Decachlorobiphenyl	132	38 -	162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Water BUF-002-WA Lab No. 03
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/03/94 DILUTION FACTOR 100 UNITS mg/L

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.050
11104-28-2	PCB-1221	<EQL	0.10
11141-16-5	PCB-1232	<EQL	0.050
53469-21-9	PCB-1242	<EQL	0.050
12672-29-6	PCB-1248	<EQL	0.050
11097-69-1	PCB-1254	<EQL	0.050
11096-82-5	PCB-1260	<EQL	0.050

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	31 - 127
Decachlorobiphenyl	0	10 - 130

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Water BUF-0020-WA Lab No. 04
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/03/94 DILUTION FACTOR 100 UNITS mg/L

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.050
11104-28-2	PCB-1221	<EQL	0.10
11141-16-5	PCB-1232	<EQL	0.050
53469-21-9	PCB-1242	<EQL	0.050
12672-29-6	PCB-1248	<EQL	0.050
11097-69-1	PCB-1254	<EQL	0.050
11096-82-5	PCB-1260	<EQL	0.050

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	0	31 -	127
Decachlorobiphenyl	0	10 -	130

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-003-SO Lab No. 05
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-004-SO Lab No. 06
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	0	14 -	135
Decachlorobiphenyl	0	38 -	139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-005-SO Lab No. 07
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/27/94 DATE RUN 04/28/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	38	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-005-S1 Lab No. 08
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	11	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-006-SO Lab No. 09
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-006-S1 Lab No. 10
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-007-SO Lab No. 11
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-007-S1 Lab No. 12
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-06-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Wipe BUF-008-W Lab No. 13
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/27/94 DATE RUN 04/28/94 DILUTION FACTOR 1 UNITS Total ug

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	1.0
11104-28-2	PCB-1221	<EQL	2.0
11141-16-5	PCB-1232	<EQL	1.0
53469-21-9	PCB-1242	<EQL	1.0
12672-29-6	PCB-1248	<EQL	1.0
11097-69-1	PCB-1254	<EQL	1.0
11096-82-5	PCB-1260	<EQL	1.0

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	103	24 - 130
Decachlorobiphenyl	124	38 - 162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Wipe BUF-008D-W Lab No. 14
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/27/94 DATE RUN 04/28/94 DILUTION FACTOR 1 UNITS Total ug

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	1.0
11104-28-2	PCB-1221	<EQL	2.0
11141-16-5	PCB-1232	<EQL	1.0
53469-21-9	PCB-1242	<EQL	1.0
12672-29-6	PCB-1248	<EQL	1.0
11097-69-1	PCB-1254	<EQL	1.0
11096-82-5	PCB-1260	<EQL	1.0

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	69	24 - 130
Decachlorobiphenyl	108	38 - 162

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-009-S1 Lab No. 15
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-009-SS Lab No. 16
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	17
11104-28-2	PCB-1221	<EQL	34
11141-16-5	PCB-1232	<EQL	17
53469-21-9	PCB-1242	<EQL	17
12672-29-6	PCB-1248	<EQL	17
11097-69-1	PCB-1254	9.4	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Water BUF-010-WA Lab No. 17
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 04/26/94 DATE RUN 05/02/94 DILUTION FACTOR 1 UNITS mg/L

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.001
11104-28-2	PCB-1221	<EQL	0.002
11141-16-5	PCB-1232	<EQL	0.001
53469-21-9	PCB-1242	<EQL	0.001
12672-29-6	PCB-1248	<EQL	0.001
11097-69-1	PCB-1254	<EQL	0.001
11096-82-5	PCB-1260	<EQL	0.001

SURROGATE	%RECOVERY	LIMITS	
Tetrachloro-m-xylene	0	31 -	127
Decachlorobiphenyl	50	10 -	130

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-011-S2 Lab No. 18
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-011-S3.5 Lab No. 19
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	21	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-012-S4 Lab No. 20
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

ork Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-013-S4 Lab No. 22
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-013-S6 Lab No. 23
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	0	14 - 135
Decachlorobiphenyl	0	38 - 139

Work Order # 94-04-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-013D-S6 Lab No. 24
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	<EQL	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

Work Order # 94-G4-307 Ross Analytical Services, Inc Reported: 05/06/94

Sample Description Soil BUF-009D-S5 Lab No. 25
Test Description PCB's by GC/ECD Test Code 8080_P

EXTRACTED 05/02/94 DATE RUN 05/04/94 DILUTION FACTOR 51 UNITS mg/Kg

CAS No.	COMPOUND	RESULT	EQL
12674-11-2	PCB-1016	<EQL	0.87
11104-28-2	PCB-1221	<EQL	1.7
11141-16-5	PCB-1232	<EQL	0.87
53469-21-9	PCB-1242	<EQL	0.87
12672-29-6	PCB-1248	<EQL	0.87
11097-69-1	PCB-1254	13	0.87
11096-82-5	PCB-1260	<EQL	0.87

SURROGATE	%RECOVERY	LIMITS
Tetrachloro-m-xylene	Q	14 - 135
Decachlorobiphenyl	Q	38 - 139

APPENDIX D

CHAIN OF CUSTODY FORMS

-A-04-301

ROSS® Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Page 1 of 3

EITAN
RM
illow Dr suite 200
ood, CO 80111
3) 741-5050
3) 773-2624

Lab Contact: Ann M.
Purchase Order No.:
Project Reference:

Bill to: Williams Natural GAS

ONE CONTAINER PER LINE

nple e/Description	Date Collected	Container Type	Pre-servative	Required Tests	Condition on Receipt (Lab)
il basement	4-18-94	4oz	none	PCBs	
l basement		4oz			
ater basement		2L			
water basement		2L			
gradient soil		4oz			
ngradient soil		4oz			
T w of NW corner of building		4oz			
"		4oz			
nument air below meter		4oz			
"		4oz			

on: ammable — Skin Irritant — Other

Sample Disposal: Return to Client — Disposal by Lab — Archive — (mos)

QA Requirements:

sh — Report Required By

Pam Rutan — Date 4-19-94 — Date

1. Received by Signature/Affiliation [signature] — Date 4/21/94 1300 CIT
2. Received by Signature/Affiliation — Date

ents:

000416

ROSS® Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

ort to: Pam Reitan
ERM-FM
5950 S. Willow Pk. Suite 100
Greenwood Village, CO 80111
phone: (303) 741 5050
(303) 773-2624

Lab Contact: Ann
Purchase Order No.:
Project Reference:

Bill to: Williams National Gas

ONE CONTAINER PER LINE

nple nber	Sample Type/Description	Date Collected	Container Type	Pre-servative	Required Tests	Condition on Receipt (Lab)
F-007-S0	below pickle area	4-18-94	4oz	none	PCBs	
F-007-S1	"					
F-008-W	below ACT heater					
F-008-W	"					
F-009-S1	E side of lined					
F-009-S5	"					
F-010-WA	EQ Rinse		2L			
F-011-S2	W side of lined		4oz			
F-011-S3,5	"					
F-012-S4	N side of lined					

sible Hazard Identification:
-hazard Flammable Skin Irritant Other

Sample Disposal:
Return to Client Disposal by Lab Archive (mos)

around Time Required:
mal Rush Report Required By

QA Requirements:

Relinquished by
nature/Affiliation: Pam Reitan Date: 4-19-94

1. Received by
Signature/Affiliation Date

Relinquished by
nature/Affiliation Date

2. Received by
Signature/Affiliation Date

cial Instructional Comments:

000417

2 Hoodoo 2

ROSS® Ross Analy al Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Report to: Pam Kerlan
ERM - Rockville

Telephone:

Lab Contact: Ann

Purchase Order No.

Project Reference

Bill to: WMG

ONE CONTAINER PER LINE

Sample Number	Sample Type/Description	Date Collected	Container Type	Pre-servative	Required Tests	Condition on Receipt (Lab)
BUF-012-S6	N. Side Impd	4-13-94	4oz	none	PCBs	
BUF-013-S4	N. Side Impd	↓	↓	↓	↓	
BUF-015-S6	S. Side Impd					
BUF-013D-S6	S. Side Impd					
BUF-009D-S5						

Possible Hazard Identification:
Non-hazard Flammable Skin Irritant Other

Sample Disposal:
Return to Client Disposal by Lab Archive (mos)

Turnaround Time Required:
Normal Rush Report Required By

QA Requirements:

1. Relinquished by Signature/Affiliation: Pam Kerlan Date: 4-14-94
2. Relinquished by Signature/Affiliation Date

1. Received by Signature/Affiliation Date
2. Received by Signature/Affiliation Date

Special Instructional Comments:

004418

APPENDIX B

Burlington Environmental Inc.
Documentation

Burlington Environmental Mobile Decontamination Units

SAMPLE LOG

Page_____ of _____

Client: WILLAMS NATURAL GAS
Station: BUFFALOE, OK.
Supervisor: ROBERT VARNUM

Date Sampled	Time	Unique Identification	Sample Result	Remarks
25-94		BUF-COM-WP1		COMPRESSOR BUILDING
		BUF-COM-WP2		GRID.
		BUF-COM-WP3		
		BUF-COM-WP4		
		BUF-COM-WP5		
		BUF-COM-WP6		
		BUF-COM-WP7		
		BUF-COM-WP8		
		BUF-COM-WP9		
		BUF-COM-WP10		
		BUF-COM-WP11		
		BUF-COM-WP12		
		BUF-COM-WP13		
		BUF-COM-WP14		
		BUF-COM-WP15		
		BUF-COM-WP16		
		BUF-COM-WP17		
		BUF-COM-WP18		
		BUF-COM-WP19		
		BUF-COM-WP20		
		BUF-COM-WP21		
		BUF-COM-WP22		
		BUF-COM-WP23		
		BUF-COM-WP24		
		BUF-COM-WP25		
		BUF-COM-WP1D		
		BUF-COM-WP19D		
		BUF-COM-WP23D		
		[redacted]		
		[redacted]		
~~8-25-94~~		~~BUF-SUMP-WP1~~		~~WIPE OF SUMP~~
-25-94		BUF-BLANK		FIELD BLANK.
"		BUF-COM-WP26		COMPRESSOR BUILDING
"		BUF-COM-WP27		FLOOR
"		BUF-COM-WP28		
"		BUF-COM-WP29		
"		BUF-COM-WP30		

000420

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1958

Project Name PCB LINE CLEANING
Project Number 11885 Phase . Task 3581 . 77
Samplers ROBERT VARNOM
Laboratory Name ETS ANALYTICAL
Location ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCB's												Comments
BUF-COM-WP1	8-25-94		WIPE	1	✓												
BUF-COM-WP2	"		"	1	✓												
BUF-COM-WP3	"		"	1	✓												
BUF-COM-WP4	"		"	1	✓												
BUF-COM-WP5	"		"	1	✓												
BUF-COM-WP6	"		"	1	✓												
BUF-COM-WP7	"		"	1	✓												
BUF-COM-WP8	"		"	1	✓												
BUF-COM-WP9	"		"	1	✓												
BUF-COM-WP10	"		"	1	✓												
BUF-COM-WP11	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[signature]	8/26/94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier: **Airbill No.**

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE.

000421

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1959

Project Name PCB LINE CLEANING
Project Number 11885 Phase . Task 3581 . 77
Samplers ROBERT VHRNIUM
Laboratory Name ETS ANALYTICAL
Location LYNCHBURG VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	PCBs												Comments
RUF-COM-WP12	8.25.94		WIPE	1	✓												
RUF-COM-WP13	"		"	1	✓												
RUF-COM-WP14	"		"	1	✓												
RUF-COM-WP15	"		"	1	✓												
RUF-COM-WP16	"		"	1	✓												
RUF-COM-WP17	"		"	1	✓												
RUF-COM-WP18	"		"	1	✓												
RUF-COM-WP19	"		"	1	✓												
RUF-COM-WP20	"		"	1	✓												
RUF-COM-WP21	"		"	1	✓												
RUF-COM-WP22	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[illegible]	8/26/94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier:

Airbill No.

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN [illegible]

000422

4/94

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1960

Project Name: TCB LINE CLEANING
Project Number: 11885 Phase . Task: 3581 . 77
Samplers: ROBERT VARNUM
Laboratory: Name: ETS ANALYTICAL
Location: ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: TCB's												Comments
BUF-COM-WP23	8-25-94		WIPE	1	✓												
BUF-COM-WP24	"		"	1	✓												
BUF-COM-WP25	"		"	1	✓												
BUF-COM-WP1D	"		"	1	✓												
BUF-COM-WP12D	"		"	1	✓												
BUF-COM-WP23D	"		"	1	✓												
BUF-SUMP-WP1	"		"	1	✓												
BUF-BLANK	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[signature]	8/26/94	0710

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Carrier: **Airbill No.**

Preservatives (ONLY for Water Samples)

- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE.

000423

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1910

Project Name: PCB LINE CLEANING
Project Number: 11885 Phase . Task: 3581 . 77
Samplers: ROBERT VARNUM
Laboratory: Name: ETS ANALYTICAL
Location: ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCBs												Comments
REF-COM-WP26	8-25-94		WIPE	1	✓												
REF-COM-WP27	"		"	1	✓												
REF-COM-WP28	"		"	1	✓												
REF-COM-WP29	"		"	1	✓												
REF-COM-WP30	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[signature]		

Received By:

Signature	Date	Time

Samples Iced: ☑ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☑ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier: Airbill No.

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN NEVONE

000424

94

Burlington Environmental Mobile Decontamination Units

SAMPLE LOG

Page_____ of_____

Client: WILLAMS NATURAL GAS

Station: BUFFALOE, OK.

Supervisor: ROBERT YARNUM

Date Sampled	Time	Unique Identification	Sample Result	Remarks
2-25-94		BUF-PC-WP1		SAMPLES FROM
		BUF-PC-WP2		PIPECHASE.
		BUF-PC-WP3		
		BUF-PC-WP4		
		BUF-PC-WP5		
		BUF-PC-WP6		

000425

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1941

Project Name: [illegible]
Project Number: 11085 Phase . Task: 3581 . 71
Samplers: [illegible]
Laboratory: Name: ETS ANALYTICAL
Location: ROANOKE, VIRGINIA.

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: PCBs												Comments
[illegible] - PC - WP1	8-25-91		WIPE	1	✓												
[illegible] - PC - WP2	"		"	1	✓												
[illegible] - PC - WP3	"		"	1	✓												
[illegible] - PC - WP4	"		"	1	✓												
[illegible] - PC - WP5	"		"	1	✓												
[illegible] - PC - WP6	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[illegible]	8/26/94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier: Airbill No.

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE.

0004226

'94

Burlington Environmental Mobile Decontamination Units

SAMPLE LOG

Page_____ of _____

Client: WILLIAMS NATURAL GAS.

Station: BUFFALO

Supervisor: ROBERT VARNUM

Date Sampled	Time	Unique Identification	Sample Result	Remarks
8-25-94		BUF - PC - DRAIN		DRIP DRAIN IN PIPECHASE
		BUF - CBW - WP1		COMPRESSOR BASEMENT
		BUF - CBW - WP2		WALL
		BUF - CBW - WP3	APROX 2' DOWN	
		BUF - CBW - WP4	UNDER STEEL	
		BUF - CBW - WP5	GRATE INC:	
		BUF - CBW - WP6		
		BUF - ARH - WP1		3" HEADER OF AIR RECEIVE
				WEST SIDE.

000427

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company

Chain-of Custody Record

3010 Greens Road
Houston, TX 77032

(713) 442-1794 Phone
(713) 442-1797 FAX

COC Serial No. D 1943

Project Name PCB LINE CLEANING
Project Number 11885 Phase . Task 3561 . 77
Samplers ROBERT VARNUM
Laboratory Name ETS ANALYTICAL
Location ROANOKE, VIRGINIA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	PCBs												Comments
BVF - PC - DRAIN	8-25-94		WIPE	1	✓												
BVF - CBW - WP1	"		"	1	✓												
BVF - CBW - WP2	"		"	1	✓												
BVF - CBW - WP3	"		"	1	✓												
BVF - CBW - WP4	"		"	1	✓												
BVF - CBW - WP5	"		"	1	✓												
BVF - CBW - WP6	"		"	1	✓												
BVF - AFH - WP1	"		"	1	✓												

Relinquished by:

Signature	Date	Time
[signature]	8-26-94	0910

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☒ Other (Specify) _____
- ☐ Other (Specify) _____

Carrier:

Airbill No.

Shipping and Lab Notes: WIPE SAMPLES PRESERVED IN HEXANE

00 04 28

APPENDIX C

SECOR International, Inc.
Documentation

Date: 01/23/95

FACSIMILE TRANSMITTAL

Page 1
# of pages: 3

To: Ms. Barbara Minette
Secor
FAX: 904/565-1051
Phone: 904/565-1012

From: Elizabeth Metz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.

LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS Sample #	Client sample #	Matrix	Analysis	Result	Units
173461	T-BUF-CBAS-DIRT	SOIL	PCB	<1.0	mg/kg

Do not hesitate to contact me with any questions.

Elizabeth Metz
Customer Service Representative

000430

Date: 01/23/95

FACSIMILE TRANSMITTAL

Page # 2
# of pages: # 3

To: Ms. Barbara Minette
Seacor
FAX: 904/565-1051
Phone: 904/565-1012

From: Elizabeth Hetz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
173462	T-BUF-CBAS-OIL	OIL	PCB	<1.0	mg/kg

Do not hesitate to contact me with any questions.

Elizabeth Hetz
Customer Service Representative

000431

Date: 01/23/95

FACSIMILE TRANSMITTAL

Page 3
# of pages: 3

To: Ms. Barbara Minette
Secor
FAX: 904/565-1051
Phone: 904/565-1012

FROM: Elizabeth Metz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
173463	T-BUF-CRAS-SLUDGE	SLUDGE	PCB	<1.0	mg/kg

Do not hesitate to contact me with any questions.

Elizabeth Metz
Customer Service Representative

000432

Date: 01/23/95

FACSIMILE TRANSMITTAL

Page 1
# of pages: 1

To: Doug Birkbeck
WNG
FAX: 918-588-3918
Phone:

From: Elizabeth Hetz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
173507	T-BUF-IPC-01A	WIPE	PCB	<1.0	ug/total
173508	T-BUF-IPC-02A	WIPE	PCB	<1.0	ug/total
173509	T-BUF-IPC-03A	WIPE	PCB	<1.0	ug/total
173510	T-BUF-IPC-03AREP	WIPE	PCB	<1.0	ug/total
173511	T-BUF-IPC-04A	WIPE	PCB	<1.0	ug/total
173512	T-BUF-IPC-05A	WIPE	PCB	<1.0	ug/total
173513	T-BUF-IPC-06A	WIPE	PCB	<1.0	ug/total
173514	T-BUF-IPC-07A	WIPE	PCB	<1.0	ug/total
173515	T-BUF-IPC-08A	WIPE	PCB	<1.0	ug/total

Do not hesitate to contact me with any questions.

Elizabeth Hetz
Elizabeth Hetz
Customer Service Representative

000433

Date: 01/30/95

FACSIMILE TRANSMITTAL

Page 1
# of pages: ____

TO: Ms. Barbara Minette
Decor
FAX: 904/565-1051
Phone: 904/565-1012

From: Elizabeth Hetz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
173981	T-BUF-AUX-31A	WIPE	PCB	<1.0	ug/total
173982	T-BUF-AUX-31AREP	WIPE	PCB	<1.0	ug/total
173983	T-BUF-AUX-32A	WIPE	PCB	<1.0	ug/total
173984	T-BUF-AUX-33A	WIPE	PCB	<1.0	ug/total
173985	T-BUF-AUX-34A	WIPE	PCB	<1.0	ug/total
173986	T-BUF-AUX-35A	WIPE	PCB	<1.0	ug/total
173987	T-BUF-BLNK	WIPE	PCB	<1.0	ug/total

Do not hesitate to contact me with any questions.

Elizabeth Hetz
Elizabeth Hetz
Customer Service Representative

000434

Date: 02/10/95

FACSIMILE TRANSMITTAL

Page # 2
# of pages: 2

To: Ms. Barbara Minette
SECOR
FAX: 904/565-1051
Phone: 904/565-1012

From: Elizabeth Betz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
174601	T-BUF-CBAS-01	WIPE	Aroclor 1254	11.0000	ug Total
174602	T-BUF-CBAS-01REP	WIPE	Aroclor 1254	12.0000	ug Total
174603	T-BUF-CBAS-02	WIPE	PCB	< 1.0000	ug Total
174604	T-BUF-CBAS-03	WIPE	Aroclor 1254	3.9000	ug Total
174605	T-BUF-CBAS-04	WIPE	Aroclor 1254	5.9000	ug Total
174606	T-BUF-CBAS-05	WIPE	Aroclor 1254	19.0000	ug Total
174607	T-BUF-CBAS-06	WIPE	PCB	< 1.0000	ug Total
174608	T-BUF-CBAS-07	WIPE	Aroclor 1254	29.0000	ug Total
174609	T-BUF-CBAS-08	WIPE	PCB	< 1.0000	ug Total
174610	T-BUF-CBAS-09	WIPE	Aroclor 1254	7.5000	ug Total
174611	T-BUF-CBAS-10	WIPE	PCB	< 1.0000	ug Total
174612	T-BUF-CBAS-11	WIPE	PCB	< 1.0000	ug Total
174613	T-BUF-CBAS-12	WIPE	Aroclor 1254	1.5000	ug Total
174614	T-BUF-CBAS-13	WIPE	PCB	< 1.0000	ug Total
174615	T-BUF-CBAS-13REP	WIPE	Aroclor 1254	1.5000	ug Total
174616	T-BUF-CBAS-14	WIPE	Aroclor 1254	1.2000	ug Total
174617	T-BUF-CBAS-15	WIPE	PCB	< 1.0000	ug Total
174618	T-BUF-CBAS-16	WIPE	Aroclor 1254	1.5000	ug Total
174619	T-BUF-CBAS-17	WIPE	Aroclor 1254	2.2000	ug Total
174620	T-BUF-CBAS-18	WIPE	Aroclor 1254	15.0000	ug Total
174621	T-BUF-CBAS-19	WIPE	Aroclor 1254	3.2000	ug Total
174622	T-BUF-CBAS-20	WIPE	PCB	< 1.0000	ug Total
174623	T-BUF-CBAS-21	WIPE	Aroclor 1254	5.6000	ug Total
174624	T-BUF-CBAS-22	WIPE	Aroclor 1254	3.6000	ug Total
174625	T-BUF-CBAS-23	WIPE	Aroclor 1254	25.0000	ug Total
174626	T-BUF-CBAS-24	WIPE	Aroclor 1254	8.8000	ug Total
174627	T-BUF-CBAS-25	WIPE	Aroclor 1254	1.7000	ug Total
174628	T-BUF-CBAS-BLNK	WIPE	PCB	< 1.0000	ug Total

000435

Date: 02/21/95

FACSIMILE TRANSMITTAL

Page 1
# of pages: 4

To: Ms. Barbara Minette
Secor
FAX: 904/565-1051
Phone: 904/565-1012

From: Elizabeth Hetz
ETSAS, Inc.

Buffalo
C/Eu

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
174911	BUF-BLANK	WIPE	PCB	<1.0	ug/total
174912	BUF-CBAS-1A	WIPE	PCB	<1.0	ug/total
174913	BUF-CBAS-1AREP	WIPE	PCB	<1.0	ug/total
174914	BUF-CBAS-2A	WIPE	PCB	<1.0	ug/total
174915	BUF-CBAS-3A	WIPE	PCB (1254)	7.0	ug/total
174916	BUF-CBAS-4A	WIPE	PCB	<1.0	ug/total
174917	BUF-CBAS-5A	WIPE	PCB (1254)	4.4	ug/total
174918	BUF-CBAS-6A	WIPE	PCB	<1.0	ug/total
174919	BUF-CBAS-7A	WIPE	PCB	<1.0	ug/total
174920	BUF-CBAS-8A	WIPE	PCB (1254)	2.0	ug/total
174921	BUF-CBAS-9A	WIPE	PCB (1254)	1.1	ug/total
174922	BUF-CBAS-10A	WIPE	PCB	<1.0	ug/total
174923	BUF-CBAS-11A	WIPE	PCB (1254)	1.2	ug/total
174924	BUF-CBAS 12A	WIPE	PCB (1254)	1.5	ug/total
174925	BUF-CBAS-13A	WIPE	PCB (1254)	1.1	ug/total

Date: 02/21/95

FACSIMILE TRANSMITTAL

Page 2
# of pages: 4

To: Ms. Barbara Minette
Secor
FAX: 904/565-1051
Phone: 904/565-1012

From: Elizabeth Hetz
ETSAS, Inc.

ETS ANALYTICAL SERVICES, INC.
LABORATORY DATA

A formal report and invoice will be issued on the following data

ETS sample #	Client sample #	Matrix	Analysis	Result	Units
174926	BUF-CBAS-14A	WIPE	PCB	<1.0	ug/total
174927	BUF-CBAS-14AREP	WIPE	PCB	<1.0	ug/total

Do not hesitate to contact me with any questions.

Elizabeth Hetz
Elizabeth Hetz
Customer Service Representative

TS Analytical Services, Inc.
Subsidiary of ETS International, Inc.

ETSAS
CHAIN OF CUSTODY FORM

1401 Municipal Rd. Roanoke, VA 24012
703/265-0084 • 800/767-4016 • 703/563-4866 (FAX)

03/03/95 18:02 ☎904 565 1051 SEACOR JAI
FEB-10-1995 12:05 ECOR'S BEST FIELD TECH'S P.29

PROJ No. 0041061-01 TASK 16

PROJECT NAME WNG BUFFALO STATION

TURN-AROUND TIME REQUESTED: 72 HR

SAMPLERS (Signature) [signature]

METHOD OF SHIPMENT: FED. EXPRESS

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW 846 8080					REMARKS & OBSERVATIONS
T-BUF-CBAS-DIRT	1-16-95	1420		X	COMPRESSOR BLDG. BASEMENT	DIRT-CLAY SAMPLE	1	X					5 PT. COMPOSITE
T-BUF-CBAS-OIL	↓	1422		X		OIL SAMPLE	1	X					↓
T-BUF-CBAS-SLUDGE	↓	1425		X		SLUDGE SAMPLE	1	X					↓

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	1-16-95 1530			
Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Remarks:

000438

Original Accompanies Shipment

* G = Grab * C = Composite

Analytical Services, Inc.
ubsidiary of ETS International, Inc.

ETSAS
CHAIN OF CUSTODY FORM

1401 Municipal Rd. Roanoke, VA 24012
703/265-8004 • 800/767-4816 • 703/563-4866 [FAX]

PROJ No. 041-001-01 SK 16

PROJECT NAME: WNG BUFFALO STATION

TURN-AROUND TIME REQUESTED: 72 HR.

SAMPLERS (Signature): Jerry H Park

METHOD OF SHIPMENT: FEDERAL EXPRESS

FIELD ID	DATE	TIME	G.	C.	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW 846-8080					REMARKS & OBSERVATIONS
BUF-IPC-01A	1-17-95	1500			AUX. BLDG - Inside pipe chase	wipe sample	1	X					CLP PACKAGE MODIFIED FOR PCB'S
BUF-IPC-02A		1501					1	X					
BUF-IPC-03A		1502					1	X					
BUF-IPC-03A REP		1503					1	X					
BUF-IPC-04A		1504					1	X					
BUF-IPC-05A		1505					1	X					
BUF-IPC-06A		1506					1	X					
BUF-IPC-07A		1507					1	X					
BUF-IPC-08A		1508					1	X					

Relinquished by: [Signature]	Date & Time	Received by: [Signature]	Date & Time	Received by: [Signature]
Jerry H Park	1-17-95 / 1700			
Relinquished by: [Signature]	Date & Time	Received by: [Signature]	Date & Time	Received by: [Signature]
Relinquished by: [Signature]	Date & Time	Received by: [Signature]	Date & Time	Remarks: FAX RESULTS TO: BARB MINETTE SECOR, 904-565-1051. QUESTIONS TO SAME: 904-565-1011

000439

ETS Analytical Services, Inc.
A Subsidiary of ETS International, Inc.

ETSAS
CHAIN OF CUSTODY FORM

1404 Municipal Rd. Roanoke, VA 21012
703/265-0004 * 800/787-4 016 * 703/663-4036 (FAX)

PROJ No. VOL-11-001-01 TASK-1

PROJECT NAME: WNG BUFFALO STATION

SAMPLERS (Signature): [signature] / [signature]

TURN-AROUND TIME REQUESTED: 72 HR.

METHOD OF SHIPMENT: Federal Express

FIELD ID	DATE	TIME	G	C	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW 846 8080					REMARKS & OBSERVATIONS
T-9 UF-AUX-31A ~~[illegible]~~	1-19-95	1445			AUX SLDY. FLOOR	WIPE SAMPLE	1	X					CLP Package modified for PCB's
T-6 UF-AUX ~~[illegible]~~	~~1-19-95~~	1446					1	X					
T-3 UF-AUX-32A ~~[illegible]~~	1-19-95	1449					1	X					
T-8 UF-AUX-33A ~~[illegible]~~	1-19-95	1451					1	X					
T-5 UF-AUX-34A ~~[illegible]~~	1-19-95	1452					1	X					
T-9 UF-AUX-35A ~~[illegible]~~	1-19-95	1454					1	X					
T-BUF-BLNK	1-19-95	1500			BLNK		1	X					

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	1-23-95 / 1700			
Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[illegible]ed by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Remarks: FAX RESULTS TO: BARB MINETTE SECRET: 404-565-1051
		[signature]	1-25-95 0415	QUESTIONS TO: SAME: 404-565-1012

[illegible]ipment * G = Grab C = Composite

173081- 173087

000440

03/03/95 18:02 ☎904 565 1051 SECOR JAX

1

SDG# 173461

ETS Analytical Services, Inc.
A Subsidiary of ETS International, Inc.
1401 Municipal Rd. Roanoke, VA 24012
703/255 8004 * 800/767-4016 * 703/563-4666 (FAX)

ETSAS
CHAIN OF CUSTODY FORM

PROJ No. V0041-001-01 TPGK-16

PROJECT NAME WILLIAMS NATURAL GAS BUFFALO STATION

SAMPLERS (Signature) Jay H Peck, Jay H Peck, David W. Evans

NUMBER OF CONTAINERS: SW846 8080

TURN-AROUND TIME REQUESTED: 72 hr

METHOD OF SHIPMENT: FED EX

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW846 8080	REMARKS & OBSERVATIONS
T-BUF-CBAS 01	2-1-95	1430			COMPRESSOR BLDG. BASEMENT	WIPE SAMPLE	1	X	CLP PACKAGE MODIFIED FOR PCB's
T-BUF-CBAS 01 REP		1432							
T-BUF-CBAS 02		1434							
T-BUF-CBAS 03		1436							
T-BUF-CBAS 04		1437							
T-BUF-CBAS 05		1438							
T-BUF-CBAS 06		1441							
T-BUF-CBAS 07		1442							
T-BUF-CBAS 08		1444							
T-BUF-CBAS 09		1447							
T-BUF-CBAS 10		1450							

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	2-3-95 1715	FED EX	2-3-95 17-15	
Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
FED EX	2-6-95			
Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Remarks: SEND RESULTS TO GARB MSNETTE @SECOR FAX 904 565 1051 QUESTIONS TO SAME PH. 904 565 1012
		Lisa Sidley	2-6-95 1310	

* Shipment * G = Grab * C = Composite

000441

2

ETS Analytical Services, Inc.
Subsidiary of ETS International, Inc.

ETSAS
CHAIN OF CUSTODY FORM

1401 Municipal Rd. Roanoke, VA 24012
703/265-0004 * 800/567-4015 * 703/562-4666 (FAX)

PROJ No. 10011-001-01
PSK-16

PROJECT NAME: WILLIAMS NATURAL GAS BUFFALO STATION

SAMPLERS (Signature): Jay H Pick, JAY H. PICK; David W. Evans, DAVID W. EVANS

TURN-AROUND TIME REQUESTED: 72 hr

METHOD OF SHIPMENT: FED EX

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW846 8080				REMARKS & OBSERVATIONS
[illegible] 11	2-1-95	1439			[illegible] ELDG [illegible]	WIPE SAMPLE	1	X				CLP PACKAGE MODIFIED FOR PCB's
[illegible] 12		1440										
[illegible] 13		1456										
[illegible] 13		1457										
[illegible] 14		1454										
[illegible] 15		1452										
[illegible]		1500										
[illegible]		1459										
[illegible]		1501										
[illegible]		1503										
[illegible] 20		1505										

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	2-3-95 1715	FED EX	1715 2-3-95	
[illegible] by: (Signature)	Date & Time	Received by: (Signature) ETS	Date & Time	Received by: (Signature)
[illegible] EX	2-6-95			
[illegible] (Signature)	Date & Time	Received by: (Signature) [illegible]	Date & Time 2-6-95 1310	Remarks: SEND RESULTS TO BARB MINETTE @ SECOR FAX 904 565 1051 QUESTIONS TO SAME PH. 904 565 1012

* Shipment * G = Grab * C = Composite

000442

ETS Analytical Services, Inc.
A Subsidiary of ETS International, Inc.

ETSAS
CHAIN OF CUSTODY FORM

1001 Municipal Rd. Roanoke, VA 24012
703/285 0904 * 800/761-4016 * 703/563-4886 (FAX)

PROJ No. V0041-001-01
TASK - 16

PROJECT NAME: WILLIAMS NATURAL GAS BUFFALO STATION

SAMPLERS (Signature): Jay H. Peck, David W. Evans

TURN AROUND TIME REQUESTED: 72 hr

METHOD OF SHIPMENT: FED EX

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW846 8080				REMARKS & OBSERVATIONS
T. SW. CBA 21	2-1-95	1510			COMPRESSOR BLDG BASEMENT	WIPE SAMPLE	1	X				CLP PACKAGE MODIFIED FOR PCB's
T. B. CBAS 22		1512										
[illegible] 23		2110										
BUFCBAS 24		2118										
T. [illegible] 25		2120										
[illegible]		1400										

LAST SAMPLE THIS PAGE

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	2-3-95 1715	FED EX	1715 2-3-95	
[illegible]shed by: (Signature)	Date & Time	Received by: (Signature) ETS	Date & Time	Received by: (Signature)
EX	2-6-95			
[illegible]: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Remarks: SEND RESULTS TO BARB MINETTE @SECOR FAX 904 565 1051
		[signature]	2-6-95 1710	Questions to Same Ph. 904 565 1012

[illegible] Shipment * G = Grab * C = Composite

000443

173461

ETS Analytical Services, Inc.
A Subsidiary of ETS International, Inc.

ETSAS
CHAIN OF CUSTODY FORM

1481 Municipal Rd. Roanoke, VA 24017
703/205-0004 * 800/761-4918 * 703/983-4684 (FAX)

PROJ No. V0041-001-01 TASK 16

PROJECT NAME SECOR WNG BUFFALO STATION Page 1 of 1

SAMPLERS (Signature) David W. Evans

TURN-AROUND TIME REQUESTED: 72 HR

METHOD OF SHIPMENT: FEDERAL EXPRESS

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW846-8080				REMARKS & OBSERVATIONS
BUF-BLANK	2-13-95	1605			BUFFALO COMP BASEMENT	WIPE SAMPLE	1	X				CLP Package Modified for PCBs
BUF-CBAS-1A		1610										
BUF-CBAS-1AREP		1611										
BUF-CBAS-2A		1614										
BUF-CBAS-3A		1616										
BUF-CBAS-4A		1618										
BUF-CBAS 5A		1621										
BUF-CBAS 6A		1623										
BUF-CBAS 7A		1627										
BUF-CBAS 8A		1629										
BUF-CBAS 9A		1631										

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	2-16-95 1730	FED EX	2-16-95 1730	
Relinquished by: (Signature) FED EX	Date & Time 2-17-95	Received by: (Signature)	Date & Time	Received by: (Signature)
Relinquished by: (Signature)	Date & Time	Received by: (Signature) [signature]	Date & Time 1455 2-17-95	Remarks: 174911 - 174927

Accompanies Shipment * G = Grab * C = Composite

000444

ETS Analytical S[illegible]es, Inc.
A Subsidiary of E[illegible] International, Inc.

E[illegible]AS
CHAIN OF CUSTODY FORM

1401 Municipal Rd. Roanoke, VA 24012
703/255-0004 * 800/767-4016 * 703/563-4986 (FAX)

PROJ No. V0041-001-01 TASK 16

PROJECT NAME SECOR WNG Buffalo Station Page 2 of 2

SAMPLERS (Signature) David W. Evans [signature]

TURN-AROUND TIME REQUESTED: 72 hr

METHOD OF SHIPMENT: FED EX

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW846 8080					REMARKS & OBSERVATIONS
BUF-CBAS-10A	2-13-95	1635			BUFFAL COMP BASEMENT	WIPE SAMPLE	1	X					CLP PACKAGE 802 Modified for PCB's
BUF-CBAS-11A		1636											
BUF-CBAS-12A		1637											
BUF-CBAS-13A		1639											
BUF-CBAS 14A		1641											
BUF-CBAS 14A REP		1642											
	LAST				SAMPLE		THIS						PAGE

Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Received by: (Signature)
[signature]	2-16-95 1730	FED EX	2-16-95 1730	
Relinquished by: (Signature) FED EX	Date & Time 2-17-95	Received by: (Signature)	Date & Time	Received by: (Signature)
Relinquished by: (Signature)	Date & Time	Received by: (Signature)	Date & Time	Remarks:

Original Accompanies Shipment

* G = Grab * C = Composite

000445

03/03/95 18:04 ☎904 565 1051 SEACOR JAX

CES Analytical Services, Inc.
A Subsidiary of [illegible] International, Inc.

CHAIN OF CUSTODY FORM

1401 Municipal Rd. [illegible]noke, VA 24017
703/265-6064 • 800/767-4016 • 703/563-4864 (FAX)

PROJ No. V0041-001-01 TASK 16

PROJECT NAME SECOR WNG BUFFALO STATION Page 1 of 1

SAMPLERS (Signature) David W. Evans

TURN-AROUND TIME REQUESTED: 72 HR

METHOD OF SHIPMENT: FEDERAL EXPRESS

FIELD ID	DATE	TIME	G *	C *	STATION LOCATION & DESCRIPTION	SAMPLE MATRIX	NUMBER OF CONTAINERS	SW846-8080				REMARKS & OBSERVATIONS
BUF-BLANK	2-13-95	1605			BUFFALO COMP BASEMENT	WIPE SAMPLE	1	X				CLP Package Modified for PCB's
BUF-CBAS-1A		1610										
BUF-CBAS-1AREP		1611										
BUF-CBAS-2A		1614										
BUF-CBAS-3A		1616										
BUF-CBAS-4A		1618										
BUF-CBAS 5A		1621										
BUF-CBAS 6A		1623										
BUF-CBAS 7A		1627										
BUF-CBAS 8A		1629										
BUF-CBAS 9A		1631										

Relinquished by: [Signature]	Date & Time	Received by: [Signature]	Date & Time	Received by: [Signature]
[signature]	2-16-95 1736	FedEx	2-16-95 1736	
Relinquished by: [Signature]	Date & Time	Received by: [Signature]	Date & Time	Received by: [Signature]
FED EX	2-17-95			
Relinquished by: [Signature]	Date & Time	Received by: [Signature]	Date & Time	Remarks:

Original Accompanies Shipment

* G = Grab * C = Composite

000446

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

May 10, 1994

Williams Natural Gas
Doug Birckbeck
P.O. Box 3288
Tulsa, Ok 74137

Dear Doug:

When analyzing samples from several stations associated with the GSSPLAB project, difficulties were encountered. These samples were run on three different instruments in the gas chromatography laboratory.

When the extracts for soils, oils, and wipes are analyzed at full strength, an oily residue built up in the instrument injection ports, even at 280 degrees C. This residue was responsible for instrument response to drop off to near zero. At first 1:6 and 1:11 dilutions were analyzed to attempt to correct the problem. Finally 1:21 dilutions of the samples seemed to dilute the oil being trapped in our GC's, enough to allow daily continuing calibration checks to pass. Other workorders will all be analyzed at 1:21 dilutions.

If you have any another questions, or need additional information please let me know.

Sincerely,
Ross Analytical Services, Inc.

Lisa M. Alexander

Lisa M. Alexander
Account Representative

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

March 8, 1995

Mr. Douglas Birckbeck
Williams Natural Gas
P.O. Box 3288
Tulsa, OK 74137

Dear Doug;

The following is a response to your request for additional information on waters analyzed from the Buffalo station. Two waters received, BUF-002-WA and BUF-002D-WA were analyzed at 1:100 dilutions.

As indicated in my letter on May 10, 1994, we experienced a difficulty with some samples on this project. An oily residue accumulated on the injection ports of our instruments when some samples were analyzed. I have attached the letter for your reference. Although this difficulty was primarily seen in soils, oils and wipes, these two water samples had the same interference pattern as was seen in other samples. A lower dilution was not performed due to this interference. It is not possible to reanalyze these samples at this time since all samples and extracts have been disposed. However, is new samples were submitted, we would be happy to analyze them.

The proper volume of sample was submitted. One liter of sample was extracted, per the method SW-846 8080.

Doug, if you have any questions, please do not hesitate to contact me. I look forward to hearing from you.

Sincerely;
Ross Analytical Services, Inc.

Lisa M. Alexander
Account Representative

APPENDIX G:

July 10, 2000 QAPP APPENDIX B

APPENDIX B
DECONTAMINATION PROCEDURES

1.0 General

1.1 Introduction

The cleaning procedures outlined in this appendix are for use by all personnel in cleaning sampling and other field equipment as well as sample containers prior to field use. Sufficient clean equipment and sample containers should be transported to the field so that an entire inspection or investigation can be conducted without the need for field cleaning of equipment. However, this will not always be possible when using specialized field equipment. Field cleaning procedures are included to cover these special areas. Emergency field sample container cleaning procedures are also included; however, they should not be used unless absolutely necessary. Specific cleaning procedures are presented in the following sections.

These procedures are the standard operating procedures (SOP). Sampling and field equipment cleaned in accordance with these procedures meet the minimum requirements for Data Quality Objectives (DQO) Level IV field work, i.e., the standard level for field work performed by personnel. Alternative field decontamination procedures may be substituted when samples are to be analyzed for data uses at a lower DQO level. Deviations from these procedures must be documented in the approved study plan, field records, and investigative reports.

1.2 Cleaning Materials

The cleaning materials referred to in this Section are described in the following paragraphs.

The laboratory detergent shall be a standard brand of phosphate-free laboratory detergent such as Liquinox. The use of any other detergent must be justified and documented in the field logbooks and inspection or investigative reports.

The nitric acid solution (10 percent) shall be made from reagent-grade nitric acid and de-ionized water.

The standard cleaning solvent shall be pesticide-grade isopropanol. However, other solvents may be substituted for a particular investigation if needed. Pesticide-grade acetone or methanol are both acceptable. However, it should be noted that if pesticide-grade acetone is used, the detection of acetone in samples collected with acetone rinsed equipment is suspect. Pesticide-grade methanol is much more hazardous to use than either pesticide-grade isopropanol or acetone, and its use is discouraged. Pesticide-grade hexane and petroleum ether are not miscible with water; therefore, these two solvents are not effective rinsing agents unless equipment is dry. The use of any solvent other than pesticide-grade isopropanol for equipment cleaning purposes must be justified and its use must be documented in field logbooks and inspection or investigation reports.

Tap water may be used from any municipal water treatment system. The use of an untreated potable

water supply is not an acceptable substitute for tap water.

De-ionized water is defined as tap water that has been treated by passing through a standard deionizing resin column. This utilizes a 5-micron prefilter followed by a mixed bed deionization unit to produce de-ionized water. The de-ionized water should contain no heavy metals or other inorganic compounds (i.e., at or above analytical detection limits). Organic-free water is defined as tap water that has been treated with activated carbon and deionizing units. Organic-free water should contain no pesticides, herbicides, extractable organic compounds, and less than 5 ug/l of purgeable organic compounds.

During cleaning operations, the substitution of a higher-grade water (i.e., de-ionized or organic-free water for tap water) is permitted and need not be noted as a variation of this SOP. However, the de-ionized and organic-free water utilized must be subjected to the specific quality control procedures as outlined in Section 2.2.

The solvents, nitric acid solution, laboratory detergent, and rinse waters used to clean equipment shall not be reused, except as specifically permitted in the footnote for Step 3, Section 3.

1.3 Marking of Cleaned Sampling Equipment and Containers

All equipment and sample containers that are cleaned utilizing these procedures shall be labeled, or marked with the date that the equipment was cleaned. Also, if there was a deviation from the standard cleaning procedures outlined in this appendix, this fact should be noted on the label.

1.4 Marking and Segregation of Used Field Equipment

Field or sampling equipment that needs to be repaired will be identified with a red tag. Any problems encountered with the equipment and needed repairs shall be noted on this tag. Field equipment or reusable sample containers needing cleaning or repairs will not be stored with clean equipment, sample tubing, or sample containers. All plastic wrapped equipment, containers and tubing not used in the field may be placed back in stock after the following precautions are taken:

- Soap and water rinse plastic containers. Allow to air dry.
- If plastic wrapping leaks after soap/water rinse, remove equipment and place into cleaning process.

1.5 Decontamination of Equipment Used to Collect Samples of Toxic or Hazardous Waste

Equipment that is used to collect samples of hazardous materials or toxic wastes or materials from hazardous waste sites, RCRA facilities, or in-process waste streams shall be decontaminated before it is returned from the field. At a minimum, this decontamination procedure shall consist of washing with laboratory detergent and rinsing with tap water. More stringent decontamination procedures may be required, depending on the waste sampled.

1.6 Proper Disposal of Cleaning Materials

The solvent used to rinse sampling equipment and containers shall be collected and disposed of through an approved hazardous waste disposal facility. Similarly, spent nitric acid shall be collected and disposed of through the same disposal facility. These procedures apply whether the cleaning operations take place a washroom or in the field.

1.7 Safety Procedures to be Utilized During Cleaning Operations

The materials used to implement the cleaning procedures outlined in this Appendix can be dangerous if improperly handled. Due caution must be exercised by all personnel and all applicable safety procedures shall be followed. At a minimum, the following precautions shall be taken in the washroom and in the field during these cleaning operations:

- Safety glasses with splash shields or goggles, neoprene gloves, and a neoprene laboratory apron will be worn during all cleaning operations. When cleaning power augering or drill rig equipment, safety boots will be worn.
- All solvent rinsing operations will be conducted in the open (never in a closed room).
- No eating, smoking, drinking, chewing, or any hand to mouth contact shall be permitted during cleaning operations.

1.8 Storage of Field Equipment and Sample Containers

All field equipment and sample containers shall be stored in a contaminant free environment after being cleaned using the procedures outlined in this Appendix.

2.0 Specific Quality Control Procedures for Cleaning Operations

2.1 General

This section establishes guidelines for specific quality control procedures to monitor the effectiveness of the sampling equipment and sample container cleaning procedures outlined in this Appendix. These procedures shall be carried out by all personnel and the results monitored by the Quality Assurance Manager. All quality control procedures shall be recorded in a logbook. If problems are detected, the Quality Assurance Manager shall immediately initiate an investigation to determine the cause of the problem(s) and institute immediate corrective action.

2.2 Rinse Water

The quality of the de-ionized and organic-free water used shall be monitored by collecting samples in standard pre-cleaned, sample containers and submitting them to the laboratory for a standard ICP scan. Organic-free water will also be submitted for low level pesticides, herbicides, and extractable

and purgeable compounds analyses. When field de-ionizing and/or organic-free water units are utilized, more frequent quality control samples will be collected. An initial sample of DI water and one sample per project are the minimum number considered acceptable.

2.3 Sampling Equipment Cleaned in Washroom

The effectiveness of the equipment cleaning procedures used in the washroom shall be monitored by rinsing cleaned equipment (equipment used to collect samples for trace organic compounds and metals analyses) with organic-free or Milli-Q water and submitting the rinse water to the ASB for low level analysis of extractable organic compounds including pesticides and a standard ICP scan. At least one piece of field equipment shall be selected for this procedure each month. An attempt should be made to select different pieces of equipment for this procedure, each time equipment is washed, so that a representative sampling of all equipment is obtained over a 12-month period.

2.4 Sampling Equipment Cleaned in the Field

The effectiveness of field cleaning procedures shall be monitored by rinsing field cleaned equipment with organic-free water and submitting the rinse water in standard sample containers to the laboratory for analysis as outlined in 2.3. Any time equipment is cleaned in the field, at least one such quality control sample shall be collected. No more than five percent of the equipment cleaned, during large scale field studies shall be subjected to these procedures.

Additional samples may be required to document quality assurance of field cleaning procedures. Any time a source of cleaning materials or rinse water is used other than that specified in Section 1.2, a sample of that cleaning material or rinse water shall be submitted in standard sample containers as specified in Section 2.2.

3.0 Cleaning Procedures for Teflon or Glass Field Sampling Equipment Used for the Collection of Samples for Trace Organic Compounds and/or Metals analysis*

1. Equipment will be washed thoroughly with laboratory detergent and hot water using a brush to remove any particulate matter or surface film.

2. The equipment will be rinsed thoroughly with hot tap water.

3. Rinse equipment with at least a 10 percent nitric acid solution. **

4. Rinse equipment thoroughly with tap water.

5. Rinse equipment thoroughly with de-ionized water.

6. Rinse equipment twice with solvent and allow to air dry for at least 24 hours.

7. Wrap equipment in one layer of aluminum foil. Roll edges of foil into a "tab" to allow for easy removal. Seal the foil wrapped equipment in plastic and date.

8. Rinse the Teflon or glass sampling equipment thoroughly with tap water in the field as soon as possible after use.

* - When this sampling equipment is used to collect samples that contain oil, grease, or other hard to remove materials, it may be necessary to rinse the equipment several times with pesticide-grade acetone or hexane to remove the materials before proceeding with Step 1. In extreme cases, it may be necessary to steam clean the field equipment before proceeding with Step 1. If the field equipment cannot be cleaned utilizing these procedures, it should be discarded.

** - Small and awkward equipment such as vacuum bottle inserts and well bailer may be soaked in the nitric acid solution instead of being rinsed with it. Fresh nitric acid solution should be prepared for each cleaning session.

4.0 Cleaning and Decontamination

All drilling rigs, drilling and sampling equipment, backhoes, and all other associated equipment involved in the drilling, field activies and sampling activities shall be cleaned and decontaminated before entering the designated site. All equipment should be inspected before entering the site to ensure that there are no fluids leaking and that all gaskets and seals are intact. All equipment entering a site shall be clean of any contaminants that may have been transported from another hazardous waste site, thereby minimizing the potential for cross-contamination. Before site-drilling activities are initiated, all equipment shall be thoroughly cleaned and decontaminated at the designated cleaning/decontamination area. The following requirements and procedures are to be strictly adhered to on all drilling activities.

Any portion of the drill rig, backhoe, etc., that is over the borehole (kelly bar or mast, backhoe buckets, drilling platform, hoist or chain pulldowns, spindles, cathead, etc.) shall be steam cleaned and wire brushed before being brought on the site to remove all rust, soil and other material which may have come from other hazardous waste sites. The drill rig and/or other equipment associated with the drilling and sampling activities shall be inspected to insure that all oil, grease, hydraulic fluid, etc., have been removed, and all seals and gaskets are intact and there are no fluid leaks. No oils or grease shall be used to lubricate drill stem threads or any other drilling equipment being used over the borehole or in the borehole without EPA approval. If drill stems have a tendency to tighten during drilling, Teflon® string can be used on the drill stem threads. The drill rig(s) shall be steam cleaned prior to drilling each borehole. In addition, all downhole drilling, sampling, and associated equipment that will meet the downhole equipment and sample medium shall be cleaned and decontaminated by the following procedures.

1. Clean with tap water and laboratory grade, phosphate-free detergent, using a brush, if necessary, to remove particulate matter and surface films. Steam cleaning and/or high pressure hot water washing may be necessary to remove matter that is difficult to remove with the brush. Hollow-stem augers, drill rods, shelby tubes, etc., that are hollow or have holes that transmit water or drilling fluids, shall be cleaned on the inside and outside. The steam cleaner and/or high pressure hot water washer shall be capable of generating a pressure of at least 2500 PSI and producing hot water and/or steam

(200°F plus).

2. Rinse thoroughly with tap water (potable).

   NOTE: Tap water (potable) may be applied with a pump sprayer. All other decontamination liquids (DI water, organic-free water, and solvents), however, must be applied with non-interfering containers. These containers shall be made of glass, Teflon®, or stainless steel. This aspect of the decontamination procedures used by the driller will be inspected by the site geologist and/or other responsible person prior to beginning of operations.

3. Rinse thoroughly with de-ionized water.

4. Rinse twice with solvent (pesticide grade isopropanol).

5. Rinse thoroughly with organic-free water and allow to air dry. Do not rinse with de-ionized or distilled water.

   NOTE: Organic-free water can be processed on-site by purchasing or leasing a mobile de-ionization-organic filtration system.

   NOTE: In some cases when no organic-free water is available, it is permissible (with approval) to leave off the organic-free water rinse and allow the equipment air dry before use.

6. Wrap with aluminum foil, if appropriate, to prevent contamination if equipment is going to be stored or transported. Clean plastic can be used to wrap augers, drill stems, casings, etc., if they have been air-dried.

7. All downhole augering, drilling and sampling equipment shall be sandblasted before Step #1 if painted, and/or if there is a buildup of rust, hard or caked matter, etc., that can not be removed by steam and/or high pressure cleaning. All sandblasting shall be performed prior to arrival on site.

8. All well casing, tremie tubing, etc., that arrive on-site with printing and/or writing on them shall be removed before Step #1. Emery cloth or sandpaper can be used to remove the printing and/or writing. Most well material suppliers can supply materials without the printing and/or writing if specified when materials are ordered.

9. Well casing, tremie tubing, etc., that are made of plastic (PVC) shall not be solvent rinsed during the cleaning and decontamination process. Used plastic materials that cannot be cleaned are not acceptable and shall be discarded.

Cleaning and decontamination of all equipment shall occur at a designated area on the site, downgradient, and downwind from the clean equipment drying and storage area. The cleaning and

decontamination area shall contain a wash water and/or waste pit excavated either with a backhoe or other heavy equipment. The pit and surrounding area shall be lined with heavy-duty plastic sheeting and designed to promote runoff of the wash/rinse water into the pit. If a pit cannot be excavated, a catch basin can be constructed out of wood and lined with plastic to contain the waste/rinse water until it can be containerized. All cleaning of drill rods, auger fights, well screen and casing, etc., will be conducted above the plastic sheeting using saw horses or other appropriate means. At the completion of the drilling activities, the pit shall be backfilled with the appropriate material designated by the site project leader, but only after the pit has been sampled, and the waste/rinse water has been pumped into 55-gallon drums for disposal. No solvent rinsates will be placed in the pit unless prior approval is granted. All solvent rinsates shall be collected in separate containers for proper disposal.

Tap water (potable) brought on the site for drilling and cleaning purposes shall be contained in a pre-cleaned tank of sufficient size so that drilling activities can proceed without having to stop and haul water. A stainless steel water tank with a minimum capacity of 1,000 gallons is preferred.

All materials used in the drilling activities shall be sampled for QA/QC purposes. These materials include drilling mud (dry and wet), filter pack materials, bentonite pellets, grout (wet and dry), and the tap water from the storage tank.

Other QA/QC samples shall be collected such as equipment rinse blanks, field blanks, etc., in accordance with other sections.

5.0 Miscellaneous

5.1 Ice Chests and Shipping Containers

All ice chests and reusable containers shall be washed with laboratory detergent (interior and exterior) and rinsed with tap water and air dried before storage. In the event that an ice chest becomes severely contaminated, in the opinion of the field investigator, with concentrated waste or other toxic material, it shall be cleaned as thoroughly as possible, rendered unusable, and properly disposed.

5.2 Organic-Free Water Storage Containers

1. These containers will be used only for transporting organic-free water.

2. New containers shall be prepared then rinsed thoroughly with organic-free water, filled with water and capped.

3. Used containers shall be capped with one layer of Teflon® paper and one layer of aluminum foil immediately after being used in the field.

4. The exterior of the container shall be washed with laboratory detergent and rinsed with de-ionized water.

5. The interior of the container shall be rinsed twice with solvent.

6. The interior of the container shall be thoroughly rinsed with organic free water. The container shall be filled with organic-free water and capped with one layer of Teflon paper, and one layer of aluminum foil. Organic-free water will not be stored in the containers longer than three days prior to a loadout.

5.3 Vehicles

All vehicles utilized by personnel should be washed (if possible) weekly or at the conclusion of each site clean-up or field sampling activities. This routine maintenance should minimize any chance of contamination of equipment or samples due to contamination of vehicles. When vehicles are used in conjunction with hazardous waste site inspections, or on studies where pesticides, herbicides, organic compounds, or other toxic materials are known or suspected to be present, a thorough interior and exterior cleaning is mandatory at the conclusion of such investigations. It shall be the responsibility of the project leader and/or field investigators to see that this procedure is followed.

All vehicles shall be equipped with trash bags and/or trash containers to facilitate vehicle cleaning. All personnel are responsible for keeping field vehicles clean by removing all trash and other debris before it accumulates. All contaminated trash and equipment must be kept separate from ordinary trash and must be properly disposed of on-site or upon return facility for proper disposal (Section 4.5).

6.0 Field Equipment Cleaning Procedures

6.1 General

Sufficient clean equipment should be transported to the field so that an entire study can be conducted without the need for field cleaning. However, this is not possible for some specialized items of field equipment such as portable power augers, well drilling rigs, soil coring rigs, and other large pieces of field equipment. In addition, particularly during large-scale studies, it is not practical or possible to transport to the field all of the precleaned field equipment required. The following procedures are to be utilized when equipment must be cleaned in the field.

6.2 Teflon, Glass, Stainless Steel or Metal Equipment Used to Collect Samples for Organic Compounds and Trace Metals Analyses*

1. Clean with tap water and laboratory detergent using a brush if necessary to remove particulate matter and surface films.

2. Rinse thoroughly with tap water.

3. Rinse thoroughly with de-ionized water.

4. Rinse twice with solvent.

5. Rinse thoroughly with organic-free water and allow to air dry as long as possible.

6. If organic-free water is not available, allow equipment to air dry as long as possible. Do not rinse with de-ionized or distilled water.

7. Wrap with aluminum foil, if appropriate, to prevent contamination if equipment is going to be stored or transported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

ACTION MEMORANDUM/ENFORCEMENT

SUBJECT: Request for a Time Critical Removal Action at the Buffalo Compressor Station Site, Harper County, Oklahoma

FROM: Rita Engblom, Federal On-Scene Coordinator
Superfund Division (6SF-R1)

THRU: Charles A. Gazda, P.E., Chief
Response and Prevention Branch (6SF-R)

TO: Myron O. Knudson, P.E., Director
Superfund Division (6SF)

I. PURPOSE

This Memorandum requests approval of a Time Critical removal action in accordance with the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9604, at the Buffalo Compressor Station site located one mile northeast of the city of Buffalo, in Harper County, Oklahoma. The facility encompasses 18 acres. The removal action is to address polychlorinated biphenyls ("PCBs") contamination in soil and on drain/air lines at the site.

This action meets the criteria for initiating a removal action under Section 300.415 of the National Contingency Plan ("NCP"), 40 CFR § 300.415. This action is expected to require less than twelve months and $2 million to complete.

II. SITE CONDITIONS AND BACKGROUND

CERCLIS ID#: OK0000605396
Category of Removal: Time-Critical
Site ID#: MN
National Significance: Removal Action

A. Site Description

1. Removal Site Evaluation

Internet Address (URL) - http://www.epa.gov/earth1r6/
Recycled/Recyclable - Printed with Vegetable Oil Based Inks on Recycled Paper (Minimum 30% Postconsumer)

Williams Gas Pipelines Central, Inc., f/k/a Williams Natural Gas Company ("WGPC") operates a high-pressure natural gas pipeline transmission and distribution system in several southern and Midwestern states. Compressor stations, such as the Buffalo Compressor Station site are located at various points along the pipeline to maintain necessary gas pressures.

Due to the heat resistant and fire retardant characteristics of PCBs, they were used in lubricants and cooling fluids at these compressor stations. The Buffalo Station was in service from the mid 1960s to the early 1970s. The WGPC began investigating the Buffalo Station site in 1994 to determine whether PCB-contaminated lubricants had been released to the environment or provided a threat of release to the environment.

2. Physical Location

The Buffalo Compressor Station site is located approximately one mile northeast of Buffalo, Oklahoma, and is an 18-acre facility. The property is located in the NE $^1/_4$ of Section 1, Township 27 North, Range 23 West (*See* Attachment 1). The site is located in an area that is rural and primarily used for agricultural purposes.

There is one residence immediately north of the site. The population of Buffalo, one mile northeast of the site, is approximately 1,620. Currently, the site could be classified as a low occupancy area in accordance with 40 CFR § 761.3. However, the future land use of this site is unknown and for purposes of this removal action, the site is classified as a high occupancy area.

Topography is nearly level to gently sloping plains. Surface water runoff is to an intermittent stream located approximately $^1/_8$ of a mile east of the site, and to a tributary to Buffalo Creeks located approximately $^1/_4$ of a mile west of the site.

3. Site Characteristics

According to WGPC, the Buffalo Compressor Station site has not been operational since the early 1970s. During the 1980s, the above ground site structures (e.g. buildings, equipment) were removed. The site currently consists of building foundations and concrete pads from the former engine room and auxiliary building, the engine room basement, piping in the former air receiver area, and the fin fans area. Additionally, on the western half of the site, there is an impoundment approximately 80 feet by 80 feet in size that was backfilled with soil when the site was operational (*See* Attachment 2).

In April 1994, WGPC investigated the site to determine whether PCBs had migrated from the air compressor units to the air line header, the engine room basement, or soil in the former air receiver area, the former air discharge area, the former prelube air pipe area, and the backfilled impoundment. The results of this investigation revealed a PCBs concentration of 38 mg/kg in one sample collected from the former air receiver area. Four other samples contained PCBs concentrations ranging from 9.4 to 21.0 mg/kg.

In 1995, WGPC collected wipe samples to evaluate the presence of PCBs on metallic and concrete surfaces including concrete floors and pipe chases. Of the 48 wipe samples submitted for laboratory analysis, nine contained PCBs concentrations exceeding 10 $\mu g/100\ cm^2$: one from the floor of the auxiliary area, seven from auxiliary area pipe chases, and one from a pipe to the air receivers. The WGPC also removed the water (which did not contain PCBs) as well as the sludge and oil that had collected in the engine room basement. Oil and sludge samples were collected and analytical results revealed no PCBs concentration exceeding 1.0 mg/kg.

In 2000, WGPC performed additional soil and wipe sampling. Soil samples were collected from the former impoundment and also from the air receiver discharge area. Soil samples collected from the impoundment were analyzed for PCBs, RCRA metals, and SVOCs; soil samples collected from the air receiver discharge area were analyzed for PCBs. Analytical results indicated that two of the grids in the impoundment had PCBs concentrations exceeding 10 mg/kg. One sample documented PCBs at 25.3 mg/kg and one sampled detected PCBs at 15.7 mg/kg. RCRA metal and SVOC concentrations detected in the impoundment did not exceed regulatory criteria.

Sixteen wipe samples were collected from the air lines, drain lines, and a concrete floor drain (located in the auxiliary area) that had not previously been sampled. Seven of the 16 wipe samples collected contained surface concentrations of PCBs greater than 10 $\mu g/100\ cm^2$.

In March 2002, four additional grids from the impoundment were sampled. The 0"-72" intervals sampled in these grids had PCBs concentrations greater than 1 mg/kg, prompting analysis at greater depths. Analytical results of the (72"-78") interval, indicated that four grids had PCBs concentrations of: 2.0 mg/kg, 1.0 mg/kg, 6.4 mg/kg, and 1.0 mg/kg. At the (84"-90") interval, four grids had PCBs concentrations of: 3.4 mg/kg, 1.3 mg/kg, 1.8 mg/kg, 1.3 mg/kg. At the (96"-102") interval, two grids had PCBs concentrations of: 1.4 mg/kg, and 0.72 mg/kg.

A summary of these investigations indicates four potential areas to be addressed by this removal action. The areas of concern include:

- Impoundment Area - Approximately 1,215 cubic yards of PCBs contaminated soil;
- Air Lines - Approximately 200 linear feet of underground air line piping associated with the air system;
- Drain Lines - Approximately 400 feet of drain line is associated with discharge to the impoundment; and,
- Air Receiver Area - Approximately 30 cubic yards of PCBs contaminated soil.

4. Release or Threatened Release into the Environment of a Hazardous Substance, or Pollutant or Contaminant

PCBs have been detected in soils and on air and drain lines at the site. PCBs are listed as hazardous substances pursuant to 40 CFR §302.4. As such, they are "hazardous substances" as defined in Section 101(14) of the CERCLA, 42 U.S.C. §9601(14).

5. NPL Status

This site is not on and is not proposed for listing on the National Priorities List.

6. Maps, pictures and other graphic representations

Attachment 1 Site Location Map
Attachment 2 Site Map
Attachment 3 Enforcement Addendum

B. Other Actions to Date

1. Previous Actions

In 1995, WGPC performed concrete cleaning and removal of piping inside the building where the previous investigations had detected elevated concentrations of PCBs. Wipe samples were collected to verify the attainment of cleanup criteria. Any location where the verification sample exceeded 10 $\mu g/100\ cm^2$ of PCBs was cleaned and resampled until all target areas were below 10 $\mu g/100\ cm^2$ of PCBs. Approximately 3,000 square feet of concrete were chemically cleaned of PCBs.

2. Current Actions

No response actions are currently underway at the site.

C. State and Local Authorities' Roles

1. State and Local Actions to Date

There have been no state or local actions taken to date.

2. Potential for State/local Response

The Oklahoma Department of Environmental Quality will provide assistance in oversight of this removal action.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

A. Threats to Public Health or Welfare

Section 300.415 of the NCP lists the factors to be considered in determining the appropriateness of a removal action. Paragraphs (b)(2)(i), (ii), (v), and (iv) directly applied to the conditions at the Site. Any one of these factors may be sufficient to justify a removal action.

1. Exposure to Human Populations, Animals or the Food Chain, NCP Section 300.415.(b)(2)(i)

There is potential for exposure of human populations and animals to PCBs which is a hazardous substance substance as defined in CERCLA Section 101(14), 42 U.S.C. 9601(14), and further defined at 40 CFR §302.4. Release of these contaminants has been identified through site assessment, and there is a threat of further release. People and animals coming on to the site could be exposed to these contaminants through ingestion, skin contact and inhalation pathways.

PCBs are toxic chemicals which are extremely stable and persistent in the environment. PCBs are toxic to humans, causing liver damage, adverse skin effects, and changes in other biological functions, and are regarded by the EPA as probable human carcinogens. PCBs bioaccumulate in humans and other organisms, which means that PCBs accumulate over time in living tissues in concentrations much higher than the concentrations to which the organisms are exposed in the environment.

Routes of human exposure of PCBs include inhalation of PCB-contaminated dust, direct contact with and ingestion of PCB-contaminated dust, direct contact with and ingestion of PCB-contaminated soil, and ingestion of fruits, vegetables or animals contaminated by exposure to PCB-contaminated soil. In addition, PCBs may be volatilized into the air and subsequently inhaled by humans.

PCBs have the potential to bioaccumulate in the food chain due to the lipophilic nature of the compound. For acute exposures, The Agency for Toxic Substances and Disease Registry ("ATSDR") reports liver damage effects in animals at ingestion dosages of approximately 0.4 to 0.8 mg/kg/day. The ATSDR also reports adverse effects on unborn animals at ingestion dosages of approximately 3 to 13 mg/kg/day and death in animals at ingestion dosages of approximately 750 mg/kg/day for acute exposures. ATSDR also reports death in animals at skin contact dosages of approximately 1250 mg/kg/day.

For chronic exposures (greater than 14 days), ATSDR reports effects on unborn and newborn animals at ingestion dosages of approximately 0.005 to 0.1 mg/kg/day; liver and skin damage and death are reported at ingestion dosages of approximately 0.1 mg/kg/day or greater. ATSDR also reports, liver and kidney damage in animals at skin contact dosages of approximately 100 mg/kg/day.

The levels of PCBs found during the site investigation exceed the levels identified above as presenting potential health problems in human populations. Nearby residents or on-site workers are subject to adverse exposure to these contaminants by inhalation of airborne particulate containing one or more of the contaminants, by direct contact and by ingestion of dusts and soils. Also, there is an increased threat to human health, animals and the food chain from the migration of contaminants subject to entrainment, windblown deposition and surface runoff.

The lack of restricted access to the property and the proximity of residents to the contaminated areas on site increases the potential for exposure to human populations.

2. Contamination of Drinking Water Supplies or Sensitive Ecosystems, NCP Section 300.415(b)(2)(ii)

The Buffalo Compressor Station is located in Harper County which is in the land area underlain by the High Plains aquifer. The High Plains area is a major agricultural area, supported primarily by water from the High Plains aquifer, which is used to irrigate wheat and corn and to raise cattle and swine. The High Plains aquifer underlies about 174,000 square miles in parts of eight states, including about 7,100 square miles in northwestern Oklahoma which includes Beaver, Cimarron, Dewey, Ellis, Harper, Texas, and Woodward Counties. The High Plains aquifer is composed of clay, silt, sand and gravel, with the sand and gravel layers contributing most of the water to wells. Depth to water in the High Plains of Oklahoma ranges from less than 10 feet to more than 300 feet below the land surface.

Properties in the vicinity of the site are generally rural and agricultural in nature. The nearest surface water to the site is an intermittent stream located one-eighth mile east of the site, and a tributary to Buffalo Creek located approximately one-quarter mile west of the site. Based on surface topography, ground water flow appears to be generally to the southeast. However, ground water flow direction can be influenced locally and regionally by subsurface topography, recharge and discharge areas; horizontal/vertical inconsistencies in the types and locations of subsurface soil and bedrock; and proximity to water pumping wells.

3. Contaminants in Soils, NCP Section 300.415.(b)(2)(iv)

PCBs are hazardous substances as defined in CERCLA Section 101(14), 42 U.S.C. § 9601(14), and further defined at 40 CFR §302.4. Sample results indicated that PCBs contamination exceeded 25 mg/kg in one soil sample collected from the former air receiver area with 38 mg/kg. Four additional soil samples contained PCBs concentrations between 9.4 and 21.0 mg/kg.

4. Weather Conditions That May Cause the Release or Migration of Hazardous Substances, NCP Section 300.415(b)(2)(v)

The area receives an average of 29 inches of rain annually and 16 inches of snow. The contaminants are subject to migration by entrainment, windblown deposition and surface runoff.

B. Threats to the Environment

The levels of PCBs in soils at this site present a potential health problem to animal life that comes into contact with contaminated soil and to freshwater aquatic life that receives runoff from this site.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed Action Description

In accordance with Toxic Substances Control Act ("TSCA"), 40 CFR § 761.61(a)(4) the clean-up level for soil in a high occupancy area is to less than 1 ppm in soil or to less than 10 ppm with a cap meeting the requirements of 40 CFR § 761.61(a)(7) and (a)(8). In accordance with 40 CFR § 761.61(a)(4)(ii) the clean-up level for non-porous surfaces in high occupancy areas, the surface PCBs cleanup standard is 10 $\mu g/100cm^2$ of surface area.

- Underground Air Lines/Drain Line to Impoundment:

Approximately 600 feet of PCBs contaminated piping (air and drain lines) that tested above 10 $\mu g/100cm^2$ of PCBs will be removed for off-site disposal. Removal of lines will begin with excavation of a 2- to 4-foot trench to expose the pipe along the length to be removed. Prior to and following removal, the lines will be inspected for evidence of holes, breaks, or leaks.

If a defect is found in the line, one soil sample of PCBs analysis will be collected below the center point of each identified defect. If no defects are found, no sampling will be performed. If PCBs contamination is detected, the soil will be excavated to achieve a PCBs concentration of less than 1 mg/kg of PCBs or less than 10 mg/kg of PCBs with a cap. If analysis of PCBs at the location of a defect is above 1 mg/kg, an area 10-feet by 2-feet, centered on the contaminated sample location, will be excavated to a depth of 10

inches (approximately 17 ft^3). Samples will be collected from the corners and center of the excavated grid and analyzed of PCBs. If any sample analyses documents PCBs concentrations greater than 1 mg/kg, another 10" from a 10-foot by 2-foot area will be excavated or the area may be capped, if concentrations in the soil are less than 10 mg/kg of PCBs.

Once the integrity of a line has been determined and any contaminated soils identified and removed, the line will be checked for liquids and explosive atmospheres. If liquids are present, a vacuum will be used to collect liquids for off-site disposal. Liquids from these lines are expected to have concentrations of PCBs less than 50 ppm, and are classified as incidental sources of PCBs that may be sent to an off-site landfill with excavated soils from the site.

Once lines are cleared they will be cut into appropriately sized sections for direct disposal. A containment structure will be constructed under each immediate cutting zone to prevent the accidental release of PCBs to the soil.

In addition to removing the air lines and drain line previously identified to exceed 10 $\mu g/100cm^2$ of PCBs, the lateral extent of surface PCBs contamination from the main drain/air lines will be investigated as taps are discovered. Additional, wipe samples will be collected from lateral lines to trace and remove additional piping that tests above 10 $\mu g/100cm^2$ of PCBs. If these lines are determined to be in low occupancy areas (dependent on depth) they may remain in place, in accordance with 40 CFR 761.61(a)(4)(ii) if the surface area is below 100 $\mu g/100cm^2$ of PCBs.

- Impoundment:

Soil that exceeds 1 mg/kg of PCBs will be excavated to a maximum depth of 20 feet. If soils remain above 1 mg/kg of PCBs but less than 10 mg/kg a cap will be constructed over the contaminated area. Approximately1,215 cubic yards of soil will be removed from the impoundment area for proper treatment and disposal based upon a clean-up level of 1 mg/kg of PCBs. If a clean-up level of 10 mg/kg of PCBs is applied, approximately 831 cubic yards of soil will be removed.

- Air Compressor Area

Soil will be excavated from the air compressor area to a depth of two feet, resulting in a removed volume of approximately 30 cubic yards.

Final soil verification sampling will be conducted after the field sampling and analysis indicate clean-up levels have been achieved at all locations where soil has been excavated for off-site disposal.

PCB-containing excavated soils will be loaded into lined transfer boxes, front-end loader, dump truck, or other equivalent conveyance equipment and staged. Stockpiles will be lined and bermed to prevent the migration of PCBs to clean soil. In addition, soil may be loaded directly onto trucks at each excavation area in lieu of staging.

All excavation areas will be backfilled, graded to previous contours, capped (if soils remain with PCBs concentrations that are greater than 1 mg/kg) and covered with at least 10 inches of clean topsoil. General measures for erosion control will be implemented, including the placement of silt fences, where appropriate, and seeding.

All off-site transportation and disposal will be done in accordance with applicable U.S. Department of Transportation ("USDOT") requirements and in compliance with the EPA's Off-Site Rule. All requirements under the Occupational Safety and Health Act ("OSHA") of 1970, 29 U.S.C. § 651 et seq., and under the laws of the State, approved under Section 18 of the Federal OSHA laws, as well as other applicable safety and health requirements, will be followed. Federal OSHA requirements include Hazardous Materials Operation, 20 CFR § 1910, as amended by 54 Fed. Reg. 9317 (March, 1989), all OSHA General Industry (29 CFR § 1910) and Construction (29 CFR § 1926) standards wherever they are applicable, as well as OSHA record keeping and reporting regulations, and the EPA regulations set forth in 40 CFR § 300, relating to the conduct of work at Superfund sites.

Other requirements under the OSHA of 1970, 29 U.S.C. § 651 et seq., and under the laws of a State with an approved equivalent worker safety program, as well as other applicable safety and health requirements, will be followed. Federal OSHA requirements include, among other things, Hazardous Materials Operation, 20 CFR § 1910, as amended by 54 Fed. Reg. 9317 (March 1989), all OSHA General Industry (29 CFR § 1910) and Construction (29 CFR § 1926) standards wherever they are relevant, as well as OSHA record keeping and reporting regulations, and the EPA regulations set forth in 40 CFR § 300 relating to the conduct of work at Superfund sites.

2. Contribution to Remedial Performance

Because this action constitutes source control, these actions are cost effective and consistent with any long term remediation strategies that may be developed for the site.

3. Description of Alternative Technologies

EPA considered using alternate treatment technologies rather than excavation to achieve the soil cleanup levels specified in Section V.A.1., above. The EPA's policy regarding the use of alternative technologies for removal actions, as described in the Office of Solid Waste and Emergency Response Directive 9380.2-1 "Administrative Guidance for Removal Program Use of Alternatives to Land Disposal," is that the alternative technology must provide for timely response

and protection of human health and the environment. The policy also establishes three criteria to consider in considering use of alternative technologies: effectiveness, implementability, and cost.

Thermal destruction is identified in the Superfund Technology Screening Guide for Treatment of CERCLA Soils and Sludges (EPA/540/2-88/004) as the only demonstrated effective treatment technology of PCBs. Other potentially effective technologies include dechlorination, bioremediation, chemical extraction, soil washing, and solidification/ stabilization.

Soil washing and solidification/stabilization were not considered viable treatment options as both are considered only potentially effective for PCBs remediation and further research would compromise the removal objective of timely response. The treatment alternatives of thermal desorption, solvent extraction or dechlorination would likely result in a project length of 6-12 months (or more), due to treatability testing. In addition, thermal desorption, solvent extraction or dechlorination are estimated to add significant costs to the project, relative to excavation and landfilling, with little or no anticipated risk reduction than would be achieved by excavation and landfilling. Incineration is timely, protective of human health and the environment, effective and implementable. However, this technology is estimated to cost an average of four to six times that of excavation and off-site landfilling, with little or no anticipated risk reduction over what would be achieved by excavation and landfilling.

4. Applicable or Relevant and Appropriate Requirements ("ARARs")

This removal action will be conducted to abate the actual or potential release of a hazardous substance, pollutant, or contaminant to the environment, in accordance with CERCLA, 42 U.S.C. § 9601 et seq., and in a manner consistent with the National Contingency Plan, 40 CFR § 300, as required at 33 U.S.C. § 1321(c)(3) and 42 U.S.C. § 9604 (a)(1). As stated at 40 CFR § 300.415(j), fund-financed removal actions under CERCLA Section 104 and removal actions under CERCLA Section 106 shall, to the extent practicable considering the exigencies of the situation, attain the ARARs under Federal environmental law.

ARARs are set forth in the TSCA codified at 40 CFR § 700 for the disposal, cleanup and verification sampling of PCBs spills.

The RCRA waste analysis requirements found at 40 CFR §§ 261.20 and 261.30, RCRA manifesting requirements found at 40 CFR § 262.20, and RCRA packaging and labeling requirements found at 40 CFR § 262.30 are ARARs for this removal action. Because on-site storage of hazardous wastes will not exceed ninety days, specific storage requirements found at 40 CFR § 265 are not ARARs. *See* 40 CFR § 262.34.

5. Project Schedule

After the Action Memorandum is signed, it is anticipated that the initial excavation and cleanup action will commence within 60 days. On-site excavation will take approximately 15 days. Total project length will be approximately 15-30 days.

B. Estimated Costs

This action is expected to be performed by WGPC. The estimated cost of oversight of this action is approximately $ 21,500.

ESTIMATED COSTS

Extramural Costs

ERRS	**$ N/A**
START	**$ 14,000.00**
Subtotal, Extramural Costs	**$ 14,000.00**
TOTAL, EXTRAMURAL COSTS	**$ 14,000.00**

Intramural Costs

EPA Regional Direct Costs	**$ 5,000.00**
EPA Regional Indirect Costs	**$ 2,000.00**
EPA Headquarters Costs	**$ N/A**
TOTAL, INTRAMURAL COSTS	**$ 7,000.00**
Subtotal, Intramural and Extramural	**$ 21,000.00**
Contingency	**$ 500.00**
TOTAL, CERCLA REMOVAL PROJECT CEILING..	**$ 21,500.00**

VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

The proposed actions for the Buffalo Compressor Station site should be taken immediately. Should these actions be delayed, the potential threats to human health and the environment will increase. A substantial amount of the PCBs contamination is in an unrestricted access area, with a rural population nearby.

VII. OUTSTANDING POLICY ISSUES

None.

VIII. ENFORCEMENT

See attached confidential Enforcement Attachment (Attachment 3).

IX. RECOMMENDATION

This decision document represents the selected removal action for the Buffalo Compressor Station Site, in Buffalo, Oklahoma, developed in accordance with CERCLA, 42 U.S.C.§ 9601 et seq., and consistent with the NCP, 40 CFR § 300. This decision is based on the administrative record for the Site.

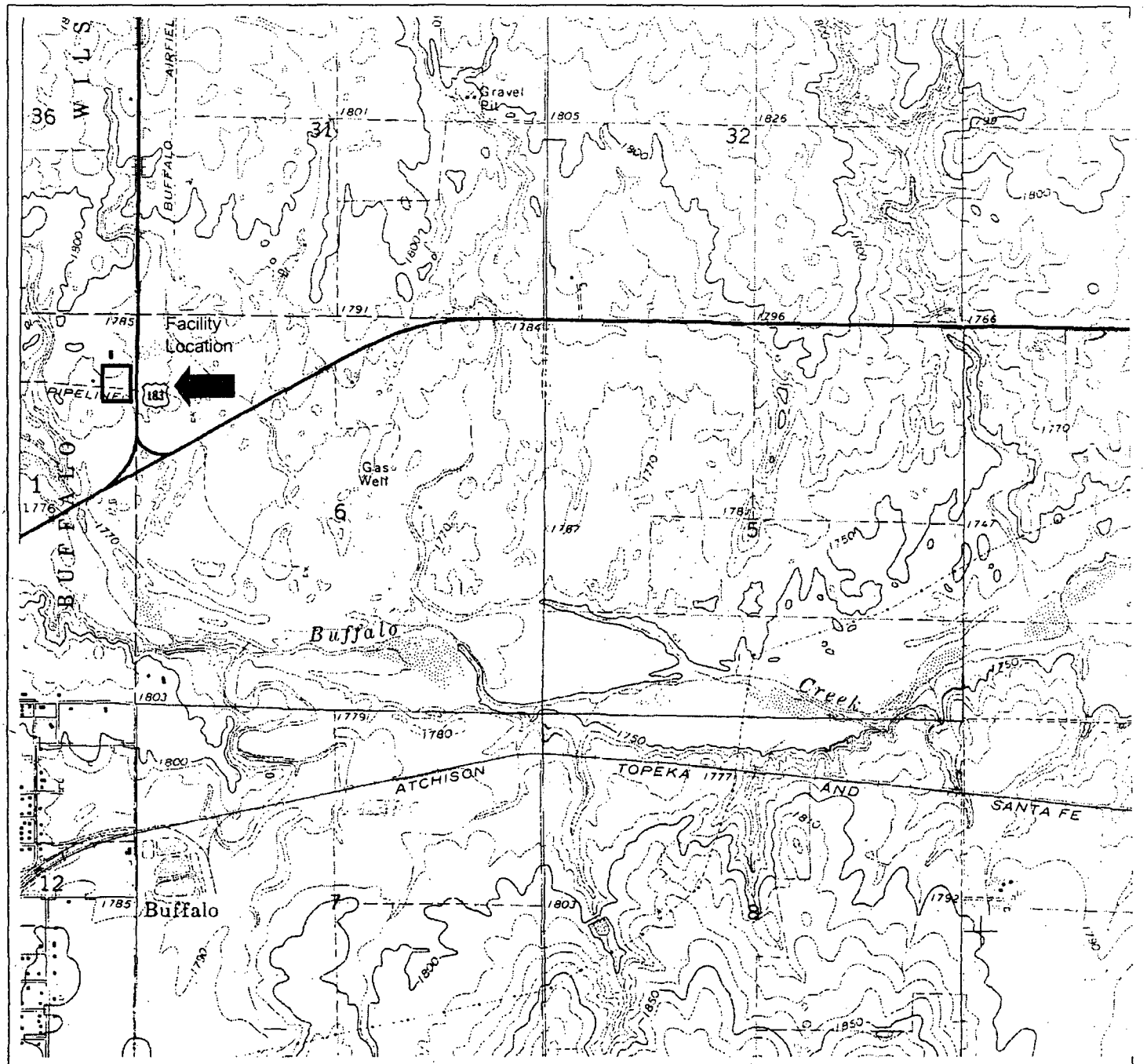
Conditions at the site meet the NCP section 300.415(b)(2) criteria for a removal and I recommend your approval of the proposed removal action. The total project ceiling, if approved, will be $21,500.00. None of this funding will come from the Regional removal allowance.

Approved:

Myron O. Knudson, P.E., Director
Superfund Division

5/20/02
Date

Attachments



SCALE 1:24,000

1 1/2 0 1 MILE

-1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL, 10 FEET

N

U.S.G.S. 7.5 MINUTE SERIES TOPOGRAPHIC MAP

STATE of OKLAHOMA QUADRANGLE

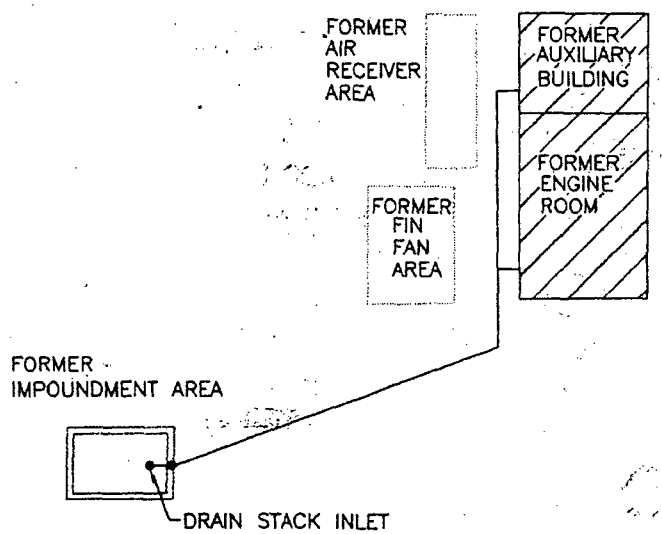
BUFFALO SE

1975

000471

Attachment I -

Site Location Map



HIGHWAY 183

BUFFALO COMPRESSOR STATION
NE 1/4, NE 1/4, SEC.1, T 27N, R 23 W
HARPER COUNTY, OKLAHOMA

N

Attachment 2 -

Site Map

000472

DIAGRAM IS FOR GENERAL LOCATION ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

ENFORCEMENT ATTACHMENT TO THE ACTION MEMORANDUM
FOR BUFFALO COMPRESSOR STATION SITE
ENFORCEMENT SENSITIVE

May 20, 2002

NOTE: This document has been withheld as Enforcement Confidential and is located in Separate "CONFIDENTIALITY FILING" at U.S. EPA, Region 6