

April 8, 2021

Mr. Ragesh Patel  
Pennsylvania Department of Environmental Protection  
Southeast Regional Office  
2 East Main Street  
Norristown, PA 19401

**RE: RESUBMITTAL OF REMEDIAL INVESTIGATION REPORT/CLEANUP PLAN  
DYOTT CORPORATION/COLUMBUS BOULEVARD ASSOCIATES, LP  
FORMER CRAMP SHIPYARD PARCELS B AND C  
eFACTS PF ID NO. 831661 & 831562  
2001 AND 2005 RICHMOND STREET  
CITY OF PHILADELPHIA  
PHILADELPHIA COUNTY, PENNSYLVANIA  
RT PROJECT # 70588-22**

Dear Mr. Patel,

With this letter, RT Environmental Services, Inc. ("RT") is submitting an updated Remedial Investigation Report and Cleanup Plan ("RIR/CP") for the Former Cramp Shipyard Site Parcels B and C (the "Site"). The RIR/CP has been updated to address each of the technical deficiencies described in your February 8, 2021 letter, as described below:

1. Surface soils were not adequately delineated across the site. There were no surface soil samples collected in the northeastern portion of the site. Further horizontal delineation of the semi-volatile organic compounds (SVOCs) is needed in the surface soils. 25 Pa. Code Sections 250.408(b) and 250.408(d).

RT collected six surface soil samples (0-to-2-foot interval) in the northeast portion of the Site to further characterize surface soils for SVOC parameters. This additional sampling is described in Section 3.4.1 of the updated RIR/CP and the surface sample locations have been added to Figure 3. The results were consistent with those found across the site.

2. This site is subject to the public involvement requirements of Act 2. A copy of the report was not made available for public comments or questions as required per 25 Pa. Code Sections 250.6(c), 250.408(f), and 250.410(b)(4).

Following completion of the additional sampling, RT published a legal notice in the Philadelphia Inquirer and emailed each of the attendees at the initial public meeting to let them know of the availability of a draft report and soliciting any comments. RT has provided public access to the updated RIR/CP on a website and will accept comments from the public for 30 days to satisfy the Public Involvement Plan requirements. The details of the Public Involvement Plan are described in Section 7.0 of the updated RIR/CP and proof of public involvement is provided in Appendix F. No public comments were received during this comment period.



3. There is no assessment for exposure of future workers to soil in excavations. All potential risks need to be evaluated in a risk assessment report or be addressed in the cleanup plan. 25 Pa Code Sections 250.404(a) and (b) and 250.410(a).

An evaluation of this exposure pathway has been incorporated into the Cleanup Plan, as described in Section 5.2 of the updated RIR/CP.

4. The remediator proposes to attain the site-specific standard via pathway elimination. There were no details on how the soil cap will be maintained and a schedule for cap inspections. Documentation of proposed post-remediation care requirements is required in the cleanup plan. 25 Pa. Code Section 250.410(b)(5).

The RIR/CP has been updated to include procedures for the inspection and maintenance of the cap as part of the Post-Remediation Care Plan for the engineering control. These procedures are described in Section 5.4 of the updated RIR/CP.

5. The PNDI search for ecological receptors was conducted on October 8, 2018. According to the Pennsylvania Natural Diversity Index website, searches are only valid for 2 years. A current PNDI search is needed. 25 Pa. Code Section 250.311(a) as referenced by Section 250.402(c).

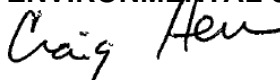
An updated ecological receptor evaluation has been completed and incorporated into the updated RIR/CP. As described in Section 2.7 of the updated RIR/CP, no new ecological receptors were identified, and site conditions have not changed since the prior site inspection conducted by RT's ecological professional.

6. PCB Aroclors 1221 and 1232 exceeded the residential soil vapor screening values. Further evaluation is needed to determine if the future vapor intrusion pathway could be complete. 25 Pa. Code Section 250.404(a).

Section 5.3 of the updated RIR/CP specifies the steps that will be completed for further evaluation of vapor intrusion for PCB Aroclors 1221 and 1232. While neither of these Aroclors have ever been detected at the Site in any concentration, several samples had laboratory reporting limits exceeding one or more of the site-specific vapor intrusion screening levels due to dilution effects.

We trust that these updates are sufficient to address the above described technical deficiencies. We appreciate the Department's timely review and continued assistance with this project.

Sincerely,  
**RT ENVIRONMENTAL SERVICES, INC.**



Craig Herr, P.G.  
Senior Consultant



RT Environmental Services, Inc.

*REMEDIAL INVESTIGATION REPORT & CLEANUP PLAN for Soil*

**FORMER CRAMP SHIPYARD SITE  
PARCELS B & C  
2001 RICHMOND STREET & 2005 RICHMOND STREET  
PHILADELPHIA, PENNSYLVANIA**

**eFACTS PF No. 831661(PARCEL B)  
eFACTS Activity No. 52871 (PARCEL B)  
eFACTS PF No. 831562(PARCEL C)  
eFACTS Activity No. 52852/52853 (PARCEL C)**

**PREPARED FOR:**

**DYOTT CORPORATION AND COLUMBUS BOULEVARD ASSOCIATES  
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**SUBMITTED BY:**

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RT PROJECT # 70588-22  
OCTOBER 2020  
REVISED – APRIL 8, 2021**

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Appendix A – Laboratory Analytical Reports

Appendix B – Field Activity & Test Pit Logs (RT)

Appendix C – KEM Test Pit Logs

Appendix D – PNDI and ECS Ecological Assessment report

Appendix E – EPA Correspondence

Appendix F – Public Involvement Meeting Information

Appendix G – Municipal and Public Notifications

Appendix H – DEP Correspondance

Pursuant to the requirements of the Environmental Remediation Standards Act (Act 2), adopted August 16, 1997, which states that:

Interpretations of geologic and hydrogeologic data shall be prepared by a professional geologist licensed in this Commonwealth

I hereby attest that, as a Professional Geologist licensed in the Commonwealth of Pennsylvania, I am familiar with, and have reviewed and/or prepared the interpretations of the geology and hydrogeology presented in the attached report entitled:

Remedial Investigation Report and Cleanup Plan, dated October 2020 and updated April 8, 2021, for the former Cramp Shipyard Site, Parcels B & C, 2001 Richmond Street and 2005 Richmond Street in Philadelphia, Pennsylvania

and, based on the available data presented in the report, believe that the geologic and hydrogeologic interpretations made therein are reasonable and accurate.

  
\_\_\_\_\_  
Craig Herr, PG  
PG-004709



## **1.0 SITE SUMMARY**

RT Environmental Services, Inc. (RT) was retained by Dyott Corporation and Columbus Boulevard Associates to implement activities pursuant to the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) at the Former Cramp Shipyard property located along Beach Street with a street address of 2001 Richmond Street (Parcel B) and 2005 Richmond Street (Parcel C), Ward 31, in Philadelphia City, Pennsylvania. This property is referred to as Parcel's "B" & "C" and is hereinafter referred to as the "Site".

The Site is a portion of the former William Cramp & Sons Ship and Engine Building Company, which operated at the Site from circa 1830 to 1964. The Site was active with piers, dry docks, and industrial manufacturing facilities. After operations ceased at the Site, all structures were demolished and several phases of filling of the former shipbuilding docks occurred as permitted by the US Army Corps of Engineers (USACE).

RT conducted both soil and groundwater investigations at the Site to identify areas which were potentially impacted due to the historical industrial use and filling of the Site. On August 3, 2018, RT submitted a Final Report for groundwater on behalf of Dyott Corporation/Columbus Boulevard Associates/Beach Street Corporation. This Final report encompassed Parcels A, B, and C (2002 Beach Street, 2001 Richmond Street, and 2005 Richmond Street) and was approved on January 18, 2019 for attainment of a residential Statewide Health Standard in groundwater (non-use aquifer).

It is the opinion of the Professional Geologist, based on the results of the soil sampling program, that none of the VOC constituents of concern present in soil are present in excess of the residential Statewide Health Standard MSCs. Arsenic, chromium, lead and mercury along with polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) are present in site soils in excess of the residential SHS. With the implementation of the Cleanup Plan presented herein, the remediator proposes to demonstrate attainment of a combination of the statewide health and site-specific standard through pathway elimination.

The owners of the Site, Dyott Corporation and Columbus Boulevard Associates, will seek relief of cleanup liability for soil under Pennsylvania's Act 2 program. As such, soil samples were obtained across the site to adequately characterize the presence of VOCs, PAHs, PCBs, and metals in soils.



The work described in this combined Remedial Investigation Report and Cleanup Plan meets the applicable requirements of 25 PA Chapter 250 that implement Act 2. Laboratory results of the soil samples collected, analyzed and results reported herein characterize the soil media. The Cleanup Plan includes the necessary engineering/institutional controls for the Site to eliminate future direct contact to soil via ingestion and inhalation of soil particulates pathways, provides information for the protection of construction workers and outlines the evaluation for the potential vapor intrusion, specifically for PCB Area 1.

Once the requirements of the Cleanup Plan have been implemented, a Final Report will be prepared and submitted to PADEP to document attainment of a combination of Act 2 Residential Statewide Health and Site-Specific Standards for soils. The Final Report will include a Post-Remediation Care Plan to ensure the cap is properly maintained. Also, since engineering controls will be used to demonstrate attainment of a Site-Specific Standard, an Environmental Covenant will be prepared and recorded for the Site.

## **1.1 Report Format**

This combined Remedial Investigation Report and Cleanup Plan presents the results of the Act 2 soil investigation and the strategy to achieve a residential standard through pathway elimination. Section 1.0 summarizes the results of site characterization to assess impacted soil related to historic industrial operations and filling at the Site. Section 2.0 presents a discussion of reasonably ascertainable published information regarding the geologic and topographic characteristics of the site. Section 3.0 describes the site characterization activities that were implemented to assess Site soil conditions. Section 4.0 includes a discussion of the site conceptual model for the Site that was developed based on the results of the Site characterization activities. Conclusions of the Site Characterization Investigation are presented in Section 5.0. Details of the Public Involvement Meeting are presented in Section 6.0 and Municipal and Public Notifications are outlined in Section 7.0. Principal contacts can be found in Section 8.0 and references cited in this report are included in Section 9.0.

## **2.0 SITE INFORMATION**

To obtain information regarding the physical Site setting, RT completed a review of reasonably ascertainable published information regarding the geologic and topographic characteristics of the Site. Information reviewed included topographic and geologic maps. The Site setting is summarized in the following sections.

### **2.1 Site Description and History**

The Site is a portion of the former Cramp Shipyard property identified as Parcels B & C, which are located at the following current address: 2001 Richmond Street (owned by Dyott Corporation) and 2005 Richmond Street (owned by Columbus Boulevard Associates) in Ward 31 in the City of Philadelphia, Pennsylvania, 19125. The Site is comprised of 15.1667 combined acres (Parcel B 13.2274 acres and Parcel C 1.9393 acres) and is bounded by North Delaware Avenue and North Beach Street to the north-northwest, Schirra Street and Parcel A to the east and the Delaware River to the south. The Site location coordinates are latitude 39°58'15.006" North and longitude 75°07'18.951" West (Parcel B) and latitude 39°58'15.034" North and longitude 75°07'18.825" West (Parcel C). A Site location map is provided as **Figure 1**. A generalized Site plan is included as **Figure 2**.

From circa 1830 to 1964, the Site was home to a portion of the William Cramp & Sons Ship and Engine Building Company. The Site was active with piers, dry docks, and industrial manufacturing facilities. These facilities were reported to use fuels, solvents, asbestos, coal, electrical transformers, and lead-based paints to support on-Site operations.

Between 1964 and 1975, the Site was owned by the Philadelphia Industrial Development Corporation. In 1975, the Philadelphia Industrial Development Corporation and Longmead Homes, Inc. owned the Site. During that time, there were several phases of filling permitted by US Army Corps of Engineers (USACE). The materials brought onto the Site were mainly sands, building debris, fly ash, bulkhead timbers, and road construction materials. Other materials were subsequently placed, including asphalt, building debris, and soil. Dyott Corporation purchased Parcel B in 2003 and Columbus Boulevard Associates purchased Parcel C in 2007.

### **2.2 Topographic Setting**

According to the Camden, New Jersey-Pennsylvania, United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle, the Site is approximately 13 feet above mean sea level. The

closest body of surface water is the Delaware River, which is adjacent to the Site to the southeast.

### **2.3 Site Geology**

The Site is located in the City of Philadelphia, Philadelphia County within the Lowland and Intermediate Upland Section of the Atlantic Coastal Plain Physiographic Province, which traverses a southeast portion of Pennsylvania in a northeast to southwest orientation. It is characterized by rolling lowlands, shallow valleys, and isolated hills. A dendritic stream drainage pattern is common in this Province.

According to the Atlas of Preliminary Geologic Quadrangles of Pennsylvania, the Site is underlain by the Trenton Gravel Formation. This unconsolidated formation is characterized by gray to pale-reddish-brown, very gravelly sand with interbeds of cross-bedded sand and clay-silt. During Site investigation activities, sand and clay-silt was observed beneath the fill material where test pits or boreholes extended through the fill material. The Trenton Gravel is immediately underlain by the competent bedrock of the Wissahickon Schist. No on-Site test pits or bore holes extended to the depth of the Wissahickon Formation.

### **2.4 Site Soils**

Soils at the Site are identified by the United States Department of Agriculture (USGS), Natural Resources Conservation Service (NRCS), as UB- Urban Land. Urban Land soils are those which have been so altered by human activities that the soil has lost its original characteristics and are thus unidentifiable.

### **2.5 Hydrology**

#### **2.5.1 Surface Water**

The Delaware River bounds the Site to the southeast. Adjacent to the Site, the Delaware River is flowing southwest towards the Delaware Bay.

#### **2.5.2 Groundwater**

Based on the information from the monitoring well network previously present at the Site (all monitoring wells were closed in February 2019), groundwater occurs at a depth of 12 to 14 feet below ground surface (bgs) and is influenced by the diurnal effects of the Delaware River. Measurements indicate that groundwater flow is to the south-southeast towards the Delaware River under a hydraulic gradient range of 0.004 to 0.007.

On August 3, 2018 RT submitted a Final Report for groundwater on behalf of Dyott Corporation/Columbus Boulevard Associates/Beach Street Corporation. This Final report encompassed Parcels A, B, and C (2002 Beach Street, 2001 Richmond Street, and 2005 Richmond Street) and was approved on January 18, 2019 for attainment of a residential Statewide health standard in groundwater (non-use aquifer).

## 2.6 Wetlands

According to the National Wetlands Inventory mapping (available at <http://www.fws.gov/wetlands>), there are no wetland areas present at the Site.

## 2.7 Pennsylvania Natural Diversity Inventory

An October 18, 2018 search of the Pennsylvania Natural Diversity Inventory (PNDI; including databases for the Pennsylvania Department of Conservation and Natural Resources, the Pennsylvania Game Commission, the Pennsylvania Fish and Boat Commission, and the United States Fish and Wildlife Service) was performed to identify the presence of sensitive or threatened species or habitats within a ½-mile radius of the Site. The search identified a potential impact for sensitive or threatened species under the Pennsylvania Fish and Boat Commission database. The search did not identify the existence of species of special concern within the search area under the other agencies databases.

As a result of the identified potential impact to the Atlantic Sturgeon (*Acipenser oxyrinchus*), Shortnose Sturgeon (*Acipenser brevirostrum*), Bald Eagle (*Haliaeetus leucocephalus*) and Eastern Redbelly Turtle (*Pseudemys rubriventris*), ECS Mid-Atlantic, LLC (ECS) conducted an ecological assessment at the Site. The results of this assessment did not find any suitable spawn and/or forage areas (Short-nose and Atlantic Sturgeon), roosting and/or nesting sites (Bald Eagle) or basking habitat (Red-Bellied Turtle) at the Site. These findings were reviewed by the Pennsylvania Fish and Boat Commission who concurred with ECS that there would be no adverse impact to the above-mentioned species of special concern from the soil conditions at the Site. A copy of the PNDI report, ECS Ecological Assessment report and follow-up Pennsylvania Fish and Boat Commission correspondence are included in **Appendix D**.

An updated PNDI search was performed on January 19, 2021, which confirmed the previous results. A Site inspection was performed on February 22, 2021, which found no changes to the Site conditions that would cause an adverse impact to the identified species. Photographs of the February 22, 2021 inspection and the updated PNDI report and PA Fish and Boat Commission

report are included in **Appendix D**. The updated ecological review identified no new ecological concerns and confirms the findings of the 2018 ecological review that there is no adverse impact to the above-mentioned species of special concern from the soil conditions at the Site.

## **2.8 United States Environmental Protection Agency Determination**

In a letter dated April 4, 2019, Manko, Gold, Katcher & Fox, LLP (MGK&F) submitted supporting documentation to the U.S. Environmental Protection Agency Region III (EPA) regarding the polychlorinated biphenyl (PCB) impacted soil that has been documented as existing at the Site (on Parcel B only). In correspondence dated April 24, 2019, EPA concurred with MGK&F's determination regarding the applicability of TSCA authority with regards to PCBs that were disposed, spilled, or otherwise discharged onto the soils at the Delaware Riverfront Parcels prior to April 18, 1978 in that PCB remediation waste is not required to be cleaned up in accordance with the regulations set forth in 40 C.F.R 761.61. Based on the supporting information provided by MGK&F, EPA concurred with the assessment that a cleanup, in accordance with 40 C.F.R 761.61, of the PCB remediation waste located at the Delaware Riverfront Parcels is not required because the PCBs were disposed, spilled, or otherwise discharged prior to April 18, 1978. A copy of the EPA correspondence has been included in **Appendix E**.

## **3.0 SITE CHARACTERIZATION**

### **3.1 Soil Materials**

Over the course of historic operations by the William Cramp & Sons Ship and Engine Building Company, the Site has been filled with various materials. After operations ceased at the Site (circa 1964), all structures were demolished and several phases of filling of the former shipbuilding docks occurred as permitted by the US Army Corps of Engineers (USACE). Prior work completed by others involved completion of test pits at various locations across the Site. This historic work was considered preliminary site characterization data. RT subsequently completed a soil investigation as part of the characterization of the Site. The Site investigation identified a relatively uniform cover of fill material across the Site. Former Shipways were found to be filled in with demolition debris and extensive fill is present throughout most of the Site. While conducting the site characterization, RT identified an area containing polychlorinated biphenyls (PCBs) in the southern portion of parcel B. Aside from the PCB-impacted area, no other location-specific area of concern was identified. The extent of soil/fill media is considered typical and will be further discussed below.

### 3.2 Soil Media Investigation

Based on the historical use and the presence of the fill material at the Site, a soil media investigation was conducted to assess the environmental condition of the Site's soils (inclusive of soil and the fill material). The investigation was conducted through several iterations of test pits and surface sampling across the Site. The soil investigation was completed between 2003 and 2021 and involved Site sampling to determine areas of interest, and then delineation around specific areas (refer to **Figure 3** -Test Pit Location Map).

### 3.3 Soil Media Test Pits

RT installed 25 test pits and collected 4 surface soil samples across the Site from October 2003 to April 2008 and submitted 70 soil samples to a certified laboratory for analysis ranging from RCRA-8 metals, SVOCs, and PCBs. Keating Environmental Management, Inc. (KEM) excavated 17 test pits on the Site in January/February 2013 and submitted 8 samples for analysis (VOCs, SVOCs, PCBs, and Metals) (**Figure 3**). In addition, 55 test pits were excavated in PCB Area 1, suspect area of elevated PCB concentrations, with 144 samples being analyzed for PCB compounds (**Figure 4**). Six additional surface soil samples were collected from the northeast portion of Parcel B in February 2021.

The data sets have been tabulated as four subsets of data based on the proposed Site reuse and remedial approach; site-wide surface soil – 0-2 feet below ground surface (ft bgs) interval, site-wide subsurface soil – greater than 2 ft bgs, site-wide PCB and PCB Area 1. A sample location plan for each group is provided in the following Figures: **Figure 3** depicts the locations of the surface soil test pits/sample locations while **Figure 4** depicts the soil test pits installed within Area 1.

Soils encountered were visually inspected for content, odors, staining, moisture, and the presence of VOCs using a photoionization detector (PID) and logged onto a field activity log. Copies of the RT field activity & test pit logs are included in **Appendix B**. The soils encountered were described as fill material made up of brown sands and silts with pieces of railroad ties, brick, concrete, rocks, wood, metal, and asphalt. The fill material varied in content but was present in all the test pits across the Site. The KEM test pit logs can be found in **Appendix C**.

The initial round of test pits was installed in June 2003 and analyzed for metals, PCBs, and SVOCs. Additional test pits were installed at the Site in October 2003, February, March, and April 2004 to further characterize and delineate specific areas proximal to the October 2003 test pits

for the presence of mercury and/or lead in soils. A subsequent series of test pits were installed in July 2006 with 11 soil samples analyzed for metals, PCBs, and SVOCs. Also, four surface soil (0-2 ft bgs) samples were collected in March 2008 utilizing a hand auger and analyzed for metals, PCBs, and SVOCs.

All soil analytical data is presented in **Tables 1a through 8**. The soil analytical data tables are organized by analysis and secondarily by surface (0-2 ft bgs) and subsurface (>2 ft bgs) depths. **Table 1a** shows the soil analytical results for surface SVOC analysis. **Table 1b** shows the soil analytical results for subsurface SVOC analysis. Likewise, **Tables 2a** and **2b** show the surface and subsurface soil analytical results for metals analysis, respectively and **Tables 3a** and **3b** show the surface and subsurface soil analytical results for PCBs, respectively. **Tables 4** through **7** depict the results of the 2013 sampling event conducted by KEM with **Table 4** detailing SVOC results, **Table 5** PCBs, **Table 6** Metals and **Table 7** VOCs. **Table 8** list the results of PCB analysis for samples collected within Area 1.

The field activity logs documenting the soil investigation are included in **Appendix B**, test pit logs can be found in **Appendix C** and laboratory soil analytical reports can be found in **Appendix A**.

### **3.4 Soil Media Quality Data**

As the presence of regulated substances (except for PCBs) is site-wide due to the presence of fill material, the soil quality data has been evaluated from a site-wide perspective. The soil quality data is evaluated in this report with the understanding that any future Site reuse may be a mixed use of residential and non-residential, and that a non-use aquifer determination has been rendered by PADEP. A Final Report for groundwater was submitted to the PA DEP by RT on August 3, 2018. This report was prepared on behalf of Dyott Corporation/Columbus Boulevard Associates, LP/Beach Street Corporation and included Parcels A, B, and C (2002 Beach Street, 2001 Richmond Street, and 2005 Richmond Street). This report was approved on January 18, 2019 for attainment of a residential Statewide health standard in groundwater (non-use aquifer) for the contaminants listed in **Appendix H** (refer to DEP approval letter).

As previously mentioned, 97 test pits and 10 surface locations were installed across the Site. From these sample locations, 229 soil samples were collected from different depths and analyzed for various compounds including VOCs, SVOCs, RCRA-8 metals, and PCBs. The following table summarizes the number of soil samples analyzed for each analytical category:

Analysis Category	Number of Soil Samples Analyzed		Total number of Samples Analyzed by Category
	Surface	Subsurface	
SVOCs	12	31	43
VOCs	1	7	8
Metals	8	26	34
PCBs	46	98	144

The following sections discuss the soil analytical results by analytical category site-wide, as well as Area 1 containing concentrations of PCBs, which were characterized as a specific AOC.

### 3.4.1 SVOCs – Surface Interval

Surface soil samples were analyzed for SVOCs. Benzo(a)pyrene was identified in 5 of the 6 surface soil samples at concentrations above the rSHS Direct Contact numeric value of 0.58 mg/kg with the highest concentration found in sample SS-19 at 4.4 mg/kg. Benzo(b)fluoranthene was also detected in SS-19 at a concentration of 5.9 mg/kg, which is above the rSHS Direct Contact numeric value of 3.5 mg/kg. Neither benzo(a)pyrene nor benzo(b)fluoranthene exceeded the residential nonuse aquifer soil to groundwater numeric value in any of the surface soil samples. The surface interval SVOC analytical data is compiled in **Tables 1a** and **4**.

RT collected six (6) surface soil samples (SS-101 through SS-106) on February 22, 2021 in the area depicted on **Figure 3**. These surface soil samples were collected at a depth of 6 to 12-inches and represent the northeastern section of Parcel B. The six samples were analyzed for SVOCs and the results can be found on **Table 1a**. Benzo(a)pyrene was identified in only one of the surface soil samples (SS-106) at a concentration of 6.7 mg/kg, which is above the rSHS Direct Contact numeric value of 0.58 mg/kg. Benzo(b)fluoranthene (9.1 mg/kg) also exceeded the rSHS Direct Contact numeric value of 3.5 mg/kg in SS-106. Once again, neither benzo(a)pyrene nor benzo(b)fluoranthene exceeded the residential nonuse aquifer soil to groundwater numeric value in any of the supplemental surface soil samples. The results of the surface soil samples collected in 2021 are consistent with all prior surface soil SVOC data collected at the Site.



There were no exceedances of SVOC constituents analyzed in the surface soil interval above nonresidential medium specific concentrations (MSCs).

### 3.4.2 SVOCs – Subsurface Interval

Subsurface soil samples were analyzed for SVOCs. Five SVOC constituents, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene and dibenzo(a,h)anthracene, were identified in the subsurface soil at concentrations exceeding their respective rSHS Direct Contact numeric values. The subsurface interval SVOC analytical data is compiled in **Tables 1b** and **4**.

- benzo(a)anthracene was identified at concentrations exceeding the rSHS Direct Contact numeric value of 6 mg/kg in 3 of the 31 subsurface soil samples analyzed. There were no exceedances of the non-residential MSCs. All 31 soil samples were below the residential nonuse aquifer soil to groundwater numeric value.
- benzo(a)pyrene was identified at concentrations exceeding the rSHS Direct Contact numeric value of 0.58 mg/kg in 19 of the 31 subsurface soil samples analyzed. There were no exceedances of the non-residential MSCs. All 31 soil samples were below the residential nonuse aquifer soil to groundwater numeric value.
- benzo(b)fluoranthene was identified at concentrations exceeding the rSHS Direct Contact numeric value of 3.5 mg/kg in 7 of the 31 subsurface soil samples analyzed. There were no exceedances of the non-residential MSCs. All 31 soil samples were below the residential nonuse aquifer soil to groundwater numeric value.
- benzo(k)fluoranthene was identified at concentrations exceeding the rSHS Direct Contact numeric value of 4 mg/kg in 2 of the 31 subsurface soil samples analyzed. There were no exceedances of the non-residential MSCs. All 31 soil samples were below the residential nonuse aquifer soil to groundwater numeric value.
- dibenzo(a,h)anthracene was identified at concentrations exceeding the rSHS Direct Contact numeric value of 1 mg/kg in 2 of the 31 subsurface soil samples analyzed. Dibenzo(a,h)anthracene was not detected in sample S-10 (collected from TP-6 in June 2003) but the laboratory reporting limit exceeded the rSHS Direct Contact numeric value. There were no exceedances of the non-residential MSCs. All 31 soil samples were below the residential nonuse aquifer soil to groundwater numeric value.

There were no exceedances of other SVOC constituents analyzed in the subsurface soil interval.

### 3.4.3 Metals – Surface Interval

Surface soil samples were analyzed for metals. Three metals (arsenic, chromium, and lead) were identified in the surface soil at concentrations exceeding their respective rSHS Direct Contact numeric values. Chromium and lead were identified in the surface soil at concentrations also exceeding their respective nrSHS Direct Contact numeric values. The surface interval metals analytical data is compiled on **Tables 2a** and **6**.

- Arsenic was identified at concentrations exceeding the rSHS Direct Contact numeric value of 12 mg/kg in 3 of the 6 surface soil samples analyzed. There were no exceedances of the non-residential MSCs. The 6 surface soil samples were below the residential nonuse aquifer soil to groundwater numeric value.
- Total chromium was identified at concentrations exceeding the most stringent rSHS Direct Contact numeric value of 4 mg/kg in all 6 surface soil samples analyzed (as the analytical data reports total chromium and the Act 2 regulation provides SHS for trivalent and hexavalent chromium, the lower of the chromium numeric values are used to evaluate total chromium concentrations identified at the Site). There were two exceedances of the non-residential direct contact numeric value and no exceedances of the residential nonuse aquifer soil to groundwater numeric value.
- Lead was identified at concentrations exceeding the rSHS Direct Contact numeric value of 500 mg/kg in 2 of the 8 surface soil samples analyzed. One surface soil sample (TP-5 1ft bgs) exceeded the nrSHS direct contact numeric value of 1,000 mg/kg. A soil sample collected from TP-5 from a depth of 7½ ft bgs had a lead concentration of 61 mg/kg, indicating that the lead concentration in soil is bound close to the surface proximal to test pit TP-5 (located in Area 1 associated with the PCB-impacted soil). There were no exceedances of the residential nonuse aquifer soil to groundwater numeric value.

There were no exceedances of other metals analyzed in the surface soil interval.

### **3.4.4 Metals – Subsurface Interval**

Subsurface soil samples were analyzed for metals. Three metals (arsenic, chromium, and lead) were identified in the subsurface soil at concentrations exceeding their respective rSHS Direct Contact numeric values. Lead was identified in the subsurface soil at concentrations also exceeding the nrSHS Direct Contact numeric value. The subsurface interval metals analytical data is compiled in **Tables 2b and 6**.

- Arsenic was identified at concentrations exceeding the rSHS Direct Contact numeric value of 12 mg/kg in 8 of the 26 subsurface soil samples analyzed. All 26 subsurface soil samples were below the residential nonuse aquifer soil to groundwater numeric value and the non-residential direct contact numeric value.
- Total chromium was identified at concentrations exceeding the most stringent rSHS Direct Contact numeric value of 4 mg/kg in all of the 26 subsurface soil samples analyzed (as the analytical data reports total chromium and the Act 2 regulation provides SHS for trivalent and hexavalent chromium, the lower of the chromium numeric values are used to evaluate total chromium concentrations identified at the Site). All 26 subsurface soil samples were below the residential nonuse aquifer soil to groundwater numeric value and the non-residential direct contact numeric value.
- Lead was identified at concentrations exceeding the most stringent rSHS Direct Contact numeric value of 500 mg/kg in 7 of the 26 subsurface soil samples analyzed. All 26 subsurface soil samples were below the residential nonuse aquifer soil to groundwater numeric value and the non-residential direct contact numeric value.
- Thallium (<12 mg/kg) had an elevated reporting limit above the rSHS Direct Contact numeric value of 2 mg/kg (direct contact) in KEM sample TP 14-5.0. There were elevated concentrations of other metals in this sample, and as such, the reporting limit was elevated due to dilution. Thallium was not detected in any other soil sample collected from the Site. It is the opinion of the Professional Geologist that there is no release of thallium at the Site as a result of this elevated reporting limit for thallium in one subsurface soil sample.

There were no exceedances of other metals analyzed in the subsurface soil interval.

### **3.4.5 PCBs – Surface Interval (outside of Area 1)**

Surface soil samples were analyzed for PCBs. None of the 5 surface soil samples collected outside of Area 1 identified any PCB Aroclors at concentrations exceeding their respective rSHS Direct Contact or residential nonuse aquifer soil to groundwater numeric values. The laboratory

detection limits for Aroclors 1221 and 1232 are above the current site-specific vapor intrusion screening levels, but these Aroclors have never been detected in any concentration at the site. The surface interval PCB analytical data, for samples collected outside of Area 1, is shown in **Tables 3a and 5**. The PCB analytical data for samples collected within Area 1 is shown in **Table 8** and discussed below.

### **3.4.6 PCBs – Subsurface Interval (outside of Area 1)**

Subsurface soil samples were analyzed for PCBs. None of the 23 subsurface soil samples collected outside of Area 1 identified any PCB Aroclors at concentrations exceeding their respective rSHS Direct Contact or residential nonuse aquifer soil to groundwater numeric values. Two subsurface soil samples collected from TP-3 and TP-5 in 2006 had laboratory reporting limits that exceeded the residential nonuse aquifer soil to groundwater numeric values for PCB Aroclors 1221 and 1232. The laboratory detection limits for Aroclors 1221 and 1232 are above the current site-specific vapor intrusion screening levels, but these Aroclors have never been detected in any concentration at the site. The subsurface interval PCB analytical data, for samples collected outside of Area 1, is shown in **Tables 3b and 5**. The PCB analytical data for samples collected within Area 1 is shown in **Table 8** and discussed below.

### **3.4.7 PCB – Area 1**

Due to the elevated PCB concentrations in the soil samples collected from TP-5 (2003) & TP-4 (2006), additional investigative efforts were conducted in Area 1, as shown in **Figure 4**. In total, 59 test pits were excavated resulting in 116 total samples collected in Area 1 (40 samples from 0-2-feet and 76 samples 2-12-feet). Although several samples had laboratory reporting limits exceeding one or more of the Aroclor-specific MSCs or site-specific vapor intrusion screening levels due to dilution effects, only the PCB Aroclors 1242, 1248, 1254, and 1260 have ever been detected at the Site at any concentration. The Area 1 PCB results are shown in **Table 8** and discussed below:

#### **3.4.7.1 Surface Interval**

Of the 40 surface samples (0-2 feet in depth) collected in Area 1, 21 were reported to be below both the residential and non-residential SHS MSCs for each of the seven (7) PCB Aroclors analyzed. Seventy-five percent of these samples were collected from locations around the perimeter of Area 1. The highest concentrations of PCBs in surface soils were detected in TP-105 from 1.5 to 2-feet (located in approximate center of Area 1); reported as 870 mg/kg of PCB-

1254 and 1,500 mg/kg of PCB-1260. PCB-1248 was detected in 1 of the 40 surface soil samples collected from Area 1, at a concentration exceeding both the residential direct contact and nonuse aquifer soil to groundwater numeric values. PCB-1254 was detected in 17 of the 40 surface soil samples collected from Area 1, at concentrations exceeding either the residential or non-residential direct contact or nonuse aquifer soil to groundwater numeric values. PCB-1260 was detected in 7 of the 40 surface soil samples collected from Area 1, at concentrations exceeding either the residential or non-residential direct contact or nonuse aquifer soil to groundwater numeric values.

#### **3.4.7.2      Subsurface Interval**

PCB compounds were detected in 36 of the 76 subsurface soil samples (2 – 12 feet in depth) at concentrations exceeding their respective residential or non-residential direct contact or nonuse aquifer soil to groundwater numeric values. The highest concentration of PCBs in subsurface soils was detected in TP-307 (near the center of Area 1) at a depth of 3.5 to 4-feet. In this sample, PCB-1260 was reported at 2,200 mg/kg which exceeds both the residential and non-residential soil to groundwater numeric values, although this value does not exceed the non-residential direct contact numeric value (190,000 mg/kg). PCB-1248 was detected in 4 of the 76 surface soil samples collected from Area 1, at concentrations exceeding either the residential direct contact or nonuse aquifer soil to groundwater numeric values. PCB-1254 was detected in 26 of the 76 subsurface soil samples collected from Area 1, at concentrations exceeding either the residential or non-residential direct contact or nonuse aquifer soil to groundwater numeric values. PCB-1260 was detected in 20 of the 76 surface soil samples collected from Area 1, at concentrations exceeding either the residential or non-residential direct contact or nonuse aquifer soil to groundwater numeric values.

Most of the PCB constituents of concern were reported below the laboratory detection limits for 81 percent of the individual compounds analyzed. There were no exceedances of the nonresidential direct contact numeric values in the subsurface soils.

The PCB Area 1 was vertically and horizontally delineated, as shown in **Figure 4**.

#### **3.4.8      VOCs – Surface Interval**

As indicated on **Table 7**, VOC constituents were analyzed on the surface and subsurface soil samples collected during the 2013 KEM investigation. Of the 9 samples collected, only TP 1 1.5 (1.5 – 2 foot) was considered a surface sample. Of the 51 compounds analyzed on this surface

sample, only methylcyclohexane was reported above the laboratory reporting limit at a concentration of 0.0019 mg/kg. There are no SHS numeric or vapor intrusion screening values for this compound. 1,2-Dibromo-3-chloropropane (<0.0016 mg/kg in TP 1-1.5) was reported at a concentration less than the laboratory's reporting limit in 2013, which is now in excess of the site-specific residential and nonresidential vapor intrusion screening levels (0.00092 mg/kg). 1,4-Dioxane (<0.110 mg/kg in TP 1-1.5) was reported at a concentration less than the laboratory's reporting limit in 2013, which is now in excess of the site-specific residential and nonresidential vapor intrusion screening levels (0.023 mg/kg and 0.59 mg/kg, respectively).

### 3.4.9 VOCs – Subsurface Interval

8 subsurface soil samples obtained during the KEM investigation in 2013 were analyzed for VOCs as shown in **Table 7**. Sample depths ranged from 2' to 8.5'. Acetone, benzene, 2-butanone, carbon disulfide, cyclohexane, 1,2-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, ethylbenzene, isopropylbenzene, methylcyclohexane, tetrachloroethene, toluene, and total xylene were detected above laboratory reporting limits. None of these reported compounds were detected at a concentration exceeding their respective residential numeric values or vapor intrusion screening values. 1,2-Dibromo-3-chloropropane (<0.089 mg/kg in TP 3-8.0, <0.0014 mg/kg in TP 5-2.0, <0.130 mg/kg in TP 12-8.0, <0.00099 mg/kg in TP 14-5.0, <0.0011 in TP 16-7.5) was reported at concentrations less than the laboratory's reporting limits in 2013, which are now in excess of the residential direct contact numeric value or the site-specific residential and nonresidential vapor intrusion screening levels. The current residential direct contact numeric value for 1,2-Dibromo-3-chloropropane is 0.029 mg/kg and the current site-specific residential and nonresidential vapor intrusion screening levels are 0.00092 mg/kg. 1,4-Dioxane (<6.0 mg/kg in TP 3-8.0, <0.092 mg/kg in TP 5-2.0, <0.056 mg/kg in TP 8-4.0, <0.056 mg/kg in TP 9-4.0, <0.074 mg/kg in TP 11-4.5, <8.500 mg/kg in TP 12-8.0, <0.066 mg/kg in TP 14-5.0, <0.074 mg/kg in TP 16-7.5) was reported at concentrations less than the laboratory's reporting limits in 2013, which are now in excess of the residential nonuse aquifer soil to groundwater numeric value, or the site-specific residential or nonresidential vapor intrusion screening levels. The current residential nonuse aquifer soil to groundwater numeric value for 1,4-dioxane is 6.00 mg/kg and the current site-specific residential and nonresidential vapor intrusion screening levels are 0.023 mg/kg and 0.59 mg/kg, respectively. Please refer to the data presented on **Table 7**.

## **4.0 SITE CONCEPTUAL MODEL**

A Final Report for Groundwater was prepared by RT in July 2018 and approved by the Department in January 2019. As part of this investigation, RT conducted a Fate and Transport Analysis, which investigated the various potential exposure routes present at the site. The following is a discussion of all existing and potential future migration pathways that may exist between the soil source and potential receptors.

### **4.1 Soil Direct-Contact Pathway**

Site soil is impacted with several regulated metals, SVOCs, and PCBs at concentrations exceeding residential direct-contact numeric values. If left unmitigated, direct contact with impacted soils (through dermal contact, ingestion, or inhalation of airborne dust that may enter breathing spaces or other areas of exposure) is a potentially complete current and future pathway for human receptors (including Site construction workers and potential future Site workers/consumers). This pathway will be eliminated by implementation of the engineering and institutional controls discussed in the Cleanup Plan.

### **4.2 Soil-to-Groundwater Pathway**

Site soil is impacted within Area 1 with PCBs at concentrations exceeding residential nonuse aquifer soil-to-groundwater numeric values. However, the approved Final Report for groundwater indicates that Site groundwater has not been impacted with these substances at concentrations exceeding residential groundwater MSCs, demonstrating that these compounds are not leaching from the source soil at quantities of sufficient magnitude to impact groundwater. Therefore, the groundwater data demonstrates that current and future soil-to-groundwater pathway is incomplete and does not require additional investigation

### **4.3 Groundwater Direct-Contact Pathway**

Exposure to Site groundwater could occur via direct contact (such as through ingestion and dermal contact) with human receptors and discharges to the ecological receptor (Delaware River). As previously mentioned, the approved Final Report for groundwater indicates that Site groundwater has not been impacted with investigated VOCs, SVOCs, PCBs or metals in excess of non-use aquifer residential groundwater MSCs. Therefore, the current and future groundwater pathway is incomplete for human and ecological receptors and does not require additional investigation. In addition, groundwater is not used as a source of drinking water in the area.

Municipal water is provided through the Philadelphia Water Department.

#### **4.4 Surface Water Direct-Contact Pathway**

A surface water body, Delaware River, bounds the Site to the southeast and represents the ecological receptor considered in the evaluation. As discussed in the previously-approved Final Report for groundwater, Site groundwater was not found to be impacted with investigated VOCs, SVOCs, PCBs or metals in excess of residential non-use aquifer groundwater MSCs. Therefore, the current and future groundwater-to-surface water pathway is incomplete and does not require additional investigation.

Exposure to surface water could occur via direct contact (such as through ingestion and dermal contact) with human receptors and ecological populations residing in the Delaware River. Delaware River surface water data presented in the Final Report for Groundwater was not found to demonstrate concentrations of investigated metals in excess of residential groundwater MSCs. For these inorganic compounds, the current and future surface water pathway is incomplete for human and ecological receptors and does not require additional investigation.

#### **4.5 Vapor Intrusion Pathway**

Exposure to volatile or semi-volatile organic vapors emanating from impacted soil may occur with potential human receptors. An evaluation of the vapor intrusion pathway was performed by RT in accordance with PA DEP's guidance on "Vapor intrusion into Building from Groundwater and Soil" under the Act 2 Statewide Health Standard (January 19, 2019).

Contaminants detected in source soil included semi-volatile organic and inorganic compounds that have a very low tendency to volatilize to air. Site COCs also include volatile compounds which can be found on Table 7. The Site VOC COCs were evaluated against the site-specific screening values (these are the SHS screening values reduced by a factor of 10). None of the Site COCs are considered a contaminant of potential indoor air concern (COPIAC) for soil, and the inorganic compounds are not considered a concern for vapor intrusion. As such, the current and future vapor intrusion pathway requires no further evaluation for Site soil.

The Cleanup Plan (Section 5.2) specifies the steps that will be completed for further evaluation of vapor intrusion for PCB Aroclors 1221 and 1232, specifically for PCB Area 1. While neither of these Aroclors have ever been detected at the Site in any concentration, several samples had



laboratory reporting limits exceeding one or more of the site-specific vapor intrusion screening levels due to dilution effects.

## **5.0 PROPOSED CLEANUP PLAN**

Based on the results of the RI characterization activities, most soil samples collected at the Site meet Act 2 residential MSCs. However, the results of the Site-Specific pathway evaluation revealed that direct contact to soils in certain areas of the Site is an open exposure pathway that needs to be addressed due to the presence of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, arsenic, chromium, lead, and PCB Aroclors 1248, 1254 1260 at concentrations that exceed their Act 2 residential direct contact soil numeric values. Therefore, the Cleanup Plan for the Site calls for the capping of the soils across the Site to eliminate this direct contact exposure pathway, worker protection during construction at the Site, and further evaluation of the vapor intrusion pathway to be performed once a development plan is prepared.

### **5.1 Residential Direct Contact**

Once redeveloped, the capping measures for the Site will include the use of asphalt or paver roadways/driveways, and parking areas, the concrete slabs associated with the on-Site buildings, and a 2-foot certified clean fill soil buffer (or other landscaping materials) in any areas not capped with concrete, asphalt or paver roadways/driveways, and parking areas. This cap will eliminate the direct contact pathway for soils. Since engineering controls will have been used to demonstrate a Site-Specific Standard, an Environmental Covenant will be prepared and recorded for the Site as described in Section 5.4

### **5.2 Worker Protection**

In order to protect construction workers from open exposure pathways during Site development, the following hazards will be included in the contractor Health & Safety Plan and reviewed with Site workers at the start of each shift (tailgate safety meetings):

#### **5.2.1 POTENTIAL HAZARDS**

##### **5.2.1.1 Chemical Hazards:**

- Site soils are known to be contaminated with regulated substances as a result of historic industrial operations at the site.

#### 5.2.1.2 Physical Hazards:

- Utility and cap installation activities pose a physical hazard, and also a slip, trip and fall hazard.
- The use of heavy equipment poses a physical hazard to workers in the work area.
- The limited visibility of the equipment operator should be considered by all workers near the work area.
  
- Potential noise hazards exist in the work area due to the use of heavy equipment during utility and cap installation activities.

#### 5.2.1.3 Biological Hazards:

- If biological hazards are identified prior or during the excavation activities, the hazard must be identified in this Health and Safety Plan and each employee working under this Health and Safety Plan must be informed of the hazard.

### 5.2.2 HAZARD ANALYSIS

#### 5.2.2.1 Chemical Hazards – Soils contaminated with regulated substances

##### Routes of Exposure

- Ingestion - from smoking, eating, or drinking without washing
- Inhalation - if high airborne levels (dust) are generated

#### 5.2.3 Hazard Elimination

- Personnel Protection Equipment will be primary protection. Workers shall be prepared to begin work with Level D protection including:

Hard hats

Long sleeves

Coveralls (disposable Tyvek suites)

Gloves (disposable)

Steel tipped safety shoes

Hearing protection

Dust filtering respirator (as needed based on Safety Officer Instructions)

### 5.3 Vapor Evaluation

#### 5.3.1 Preliminary Design Layout

Once an architectural rendering of the Site development plan is prepared, the Site will be evaluated to determine if the proposed structures will be located on or within the proximity distance (100 linear feet) of the identified PCB impacted area where certain laboratory reporting limits exceeded the

site-specific residential soil vapor screening values for PCB Aroclors 1221 and 1232.

**5.3.2 *Soil Gas Sampling***

Upon the completion of an approved development and prior to the initiation of construction activities, a vapor evaluation will be performed in any area where a proposed building footprint will overlie or fall within the proximity distance of the previously identified PCB impacted area. Testing measures may include hand or GeoProbe installed soil vapor points with Summa canisters, Polyurethane Foam sampling, or equivalent. Samples collected will be analyzed for PCB Aroclor 1221 and 1232.

**5.3.3 *Data Evaluation***

Once the soil vapor sampling events are completed, the data will be evaluated to document if there is a suspect vapor intrusion concern. If there is a suspect vapor intrusion concern upon completion of the testing, a mitigation system will be designed and installed below the concrete slab to passively or actively remove vapors.

**5.3.4 *Possible Vapor Mitigation Measures***

Depending on the results of the vapor evaluation, one possible vapor mitigation measure may include the installation of a vapor barrier and passive or active venting system beneath the concrete floor slab as an engineering control. Further specific details of a vapor mitigation system, if needed, can be provided in a Cleanup Plan Addendum.

**5.4 Post-Remedial Care Plan**

The Site shall be subject to the engineering controls described in the Cleanup Plan. These controls will be detailed in an Environmental Covenant (EC) to be prepared and recorded for the Site based on the completion of the Cleanup Plan. As outlined in the Cleanup Plan, the remedy for this Site will be comprised of capping measures that will include the use of asphalt or paver roadways/driveways, and parking areas, the concrete slabs associated with the on-Site buildings, and a 2-foot certified clean fill soil buffer (or other landscaping materials) in any areas not capped with concrete, asphalt or paver roadways/driveways, and parking areas. This engineering control will eliminate the direct contact pathway for soils. Routine and periodic inspections of the integrity, operability, and effectiveness of engineering controls will be conducted to ensure compliance with the activity and use limitations for the site. The routine and periodic inspections will be conducted

annually, beginning with the first anniversary of the date of PA DEP's approval of a Final Report. The results of these inspections, and any maintenance or repair activities required as a result of the inspections, will be recorded and kept at the Site. The information will be made available to PADEP upon request. Once the EC for the Site is approved and recorded, any future activity on the Site that compromises the integrity of an engineering control, other than routine maintenance activities, or otherwise violates a restriction or requirement placed on the use of the Site will require written approval from the PA DEP as required by the terms of the EC.

## **6.0 CONCLUSIONS**

As indicated by Site characterization activities at the Site from 2003 through 2021, Site soils have been impacted with SVOCs, metals and PCB compounds from historic shipbuilding and fill operations.

Five (5) SVOC constituents, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene and dibenzo(a,h)anthracene, were identified in the subsurface soil at concentrations exceeding residential direct-contact numeric values, but only benzo(a) pyrene is widely distributed in Site soils above the standard. No SVOCs were detected above the residential nonuse aquifer soil-to-groundwater numeric values.

Arsenic, chromium and lead were detected in Site soils at concentrations exceeding residential direct-contact numeric values, while no metals were detected above the residential nonuse aquifer numeric values.

PCB compounds were detected in Site surface and subsurface soils at concentrations exceeding residential and nonresidential Statewide Health Standard numeric value and are primarily located in Area 1 (refer to Figure 4). EPA Region III recently issued a determination regarding PCB-impacted soils at the Site by stating that cleanup of PCB remediation waste located at the Delaware Riverfront Parcels is not regulated under the Toxic Substances Control Act (TSCA) because the PCBs were disposed, spilled, or otherwise discharged prior to April 18, 1978. The PCB-impacted area, Area 1, will be addressed in a manner similar to other site impacts to eliminate risks of exposure by potential receptors.

The proposed Cleanup Plan addresses the only potentially complete exposure pathway at the site and calls for the capping of the soils across the Site to eliminate the soil direct contact

pathway. Since engineering controls will have been used to demonstrate a Site-Specific Standard, an EC will be prepared and recorded for the Site.

Once the requirements of the Cleanup Plan have been implemented, a Final Report will be prepared and submitted to PADEP to document attainment of a combination of Act 2 Residential Statewide Health and Site-Specific Standards for soils. The Final Report will include a Post-Remediation Care Plan to ensure that the cap is properly maintained.

## **7.0 PUBLIC INVOLVEMENT PLAN**

The remediator prepared a Public Involvement Plan (PIP) dated February 22, 2019 for 2001 Beach Street (eFACTS PF No. 8131556) (Parcel A), 2001 Richmond Street (eFACTS PF No. 831661) (Parcel B) and 2005 Richmond Street (eFACTS PF No. 831562) (Parcel C) properties. A public meeting was held at Oxford Mills on the evening of April 15, 2019. The purpose of the meeting was for the remediator and their representatives to present data collected at the Site and explain the remedial process. A notice of the public meeting was published in *The Philadelphia Daily News* on March 15, 2019 with documents regarding the properties being made available for public review in advance of the meeting at the Fishtown Community Library. A letter informing the City and the Department of the meeting is included in **Appendix F**.

The remediator and their representatives participated in the meeting by providing information and answering questions from those in attendance. Information presented included the results of the soil sampling that had been conducted on Parcels B & C. Questions from the attendees related to the environmental conditions of the properties, plans for future remediation and site development, and dust control measures that will be implemented as the work progresses. No additional question's regarding the properties have been received by the remediator. A copy of the list of attendees and responses to the questions received has also been included in **Attachment F**.

In order to satisfy the PIP, RT set up a Resource Section on its website ([www.rtenv.com](http://www.rtenv.com)) to include a copy of the current RIR/CP document and thus make it available for public review. Notification letters describing the availability of the document on the website were submitted to the Philadelphia Health Department and the District 1 Council Member along with email notification to each individual who attended the April 15, 2019 Public Involvement Meeting. A

public notice was published in the legal section of the Philadelphia Inquirer on March 9, 2021 which described the newly instituted public information website that includes relevant documents. A copy of the October 2020 document titled “Former Cramp shipyard Site Parcels B and C” (report) constitutes a combined remedial investigation report and cleanup plan as defined in Chapter 3, which this document updates. Both reports will be available on the website.

In addition, the legal advertisement also indicates that public comments may be submitted in writing within thirty (30) days of the publication date to RT Environmental Services, Inc., 215 W. Church Road, King of Prussia, PA 19406, Attention: Mr. Craig Herr or via email to: [cherr@rtenv.com](mailto:cherr@rtenv.com) by April 8, 2021. Copies of the certified notification letters, legal advertisement and proof-of-publication can be found in **Appendix F**.

No public comments were received by mail or email during the 30-day comment period.

## **8.0 MUNICIPAL AND PUBLIC NOTIFICATIONS**

In accordance with Section 250.5(a) of the Act 2 regulations and Sections 303(h)(i)(ii) / 303(h)(2) of the Act, Dyott submitted a Notice of Intent to Remediate (NIR) to the PADEP Southeastern Regional Office on January 7, 2019, while Columbus Boulevard Associates submitted an NIR on January 4, 2019. In addition, the City of Philadelphia Health Department was provided a copy of the NIR submission via certified mail on December 20, 2018. A summary of the NIR was published as a legal notice in the *Philadelphia Daily News* on December 24, 2018. The NIR states that the property owner intends to demonstrate attainment of the Site-Specific Standard/Statewide Health Standard for constituents of concern identified in Site soil. The proposed future use is undetermined but may include mixed uses. Copies of the *Philadelphia Daily News* proof of publication and certified mail receipts are included in **Appendix G**.

## **9.0 CONTACTS**

Owner/Remediator:

Dyott Corporation (Parcel B) and Columbus Boulevard Associates (Parcel C)  
c/o Mr. Craig Hoogstraten  
6958 Torresdale Avenue  
Suite 200  
Philadelphia, PA 19135

Consultant:

Mr. Craig Herr, PG

RT Environmental Services, Inc.

215 West Church Rd.

King of Prussia, PA 19406

610-265-1510 extension 215

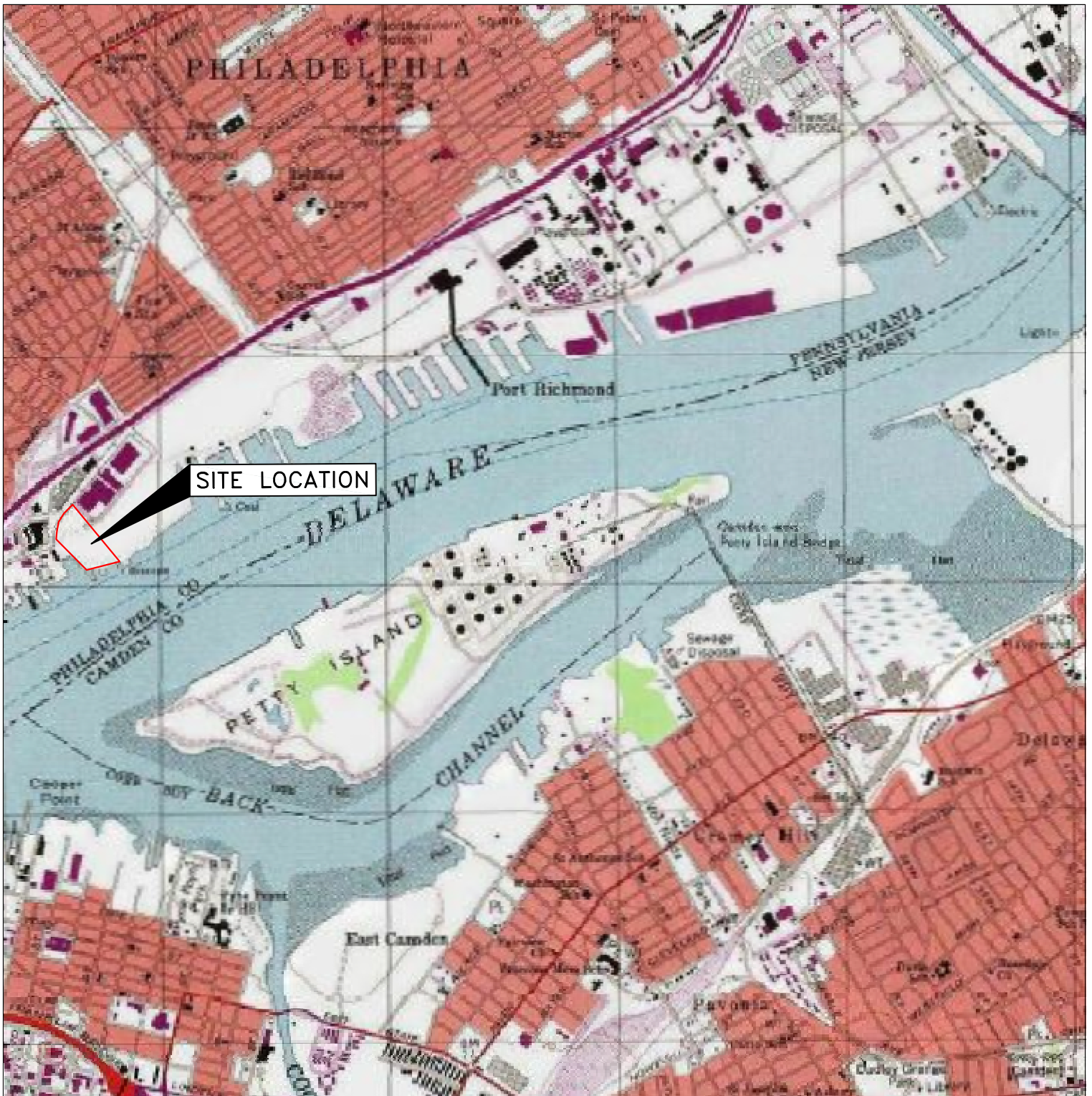
[cherr@rtenv.com](mailto:cherr@rtenv.com)

## 10.0 REFERENCES

- 1) Pennsylvania Bulletin Volume 27 Number 23  
Saturday August 16, 1997, Harrisburg, P.A.  
Part II, Environmental Quality Board  
Administration of the Land Recycling Program (Act 2)
- 2) Atlas of Preliminary Geologic Quadrangles of Pennsylvania Map 61, page 94: Camden NJ-PA Quadrangle, compiled by T. M. Burg, 1978.
- 3) Physiographic Provinces of Pennsylvania, Map 13. Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey, compiled by W. D. Sevon, Fourth Addition, 2000
- 4) Engineering Characteristics of the Rocks of Pennsylvania. Alan R. Geyer and J. Peter Wilshusen, Department of Environmental Resources, Office of Resources Management, Bureau of Topographic and Geologic Survey, Environmental Geology Report 1, 1982.
- 5) US EPA SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition Update IV,  
<http://www.epa.gov/osw/hazard/testmethods/sw846/index.htm>

## FIGURES

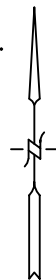
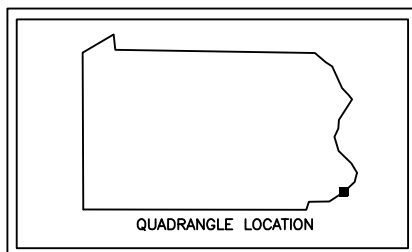




SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC SERIES

CAMDEN, NJ-PA

APPROXIMATE SCALE: 1 INCH = 2000 FT.



RT Environmental Services, Inc.  
215 West Church Road  
King of Prussia, PA. 19406



FIGURE 1  
SITE LOCATION MAP

2001 & 2005 Richmond Street, Philadelphia, PA


Prepared For:  
Dyott Corp/ Columbus Blvd. Assoc/  
Beach Street Corp

CHARGE	70588-21	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON BB
SCALE	1"=2000'	DRAWING NUMBER			REVISION
DATE	11/28/17	y:\rt projects\70500 series\70588-21\slm (fig 1).dwg			



LEGEND	
	ACT 2 BOUNDARY
	PARCEL BOUNDARY

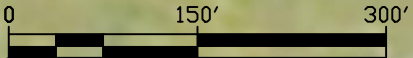



 <b>RT Environmental Services, Inc.</b> 215 West Church Road King of Prussia, PA 19406				
<b>FIGURE 2</b> <b>SITE MAP</b> 2001 & 2005 RICHMOND STREET, PHILADELPHIA, PA				
Prepared For: <b>DYOTT CORP./COLUMBUS BOULEVARD ASSOC.</b> 6985 TORRESDALE AVENUE, SUITE 200 PHILADELPHIA, PA 19135				
CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
70588-22				VL
SCALE	DRAWING NUMBER			
1" = 150'	y:\rt_projects\70500 series\70588-21\beach street site map.dwg			
DATE				
4/17/19				

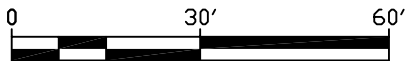
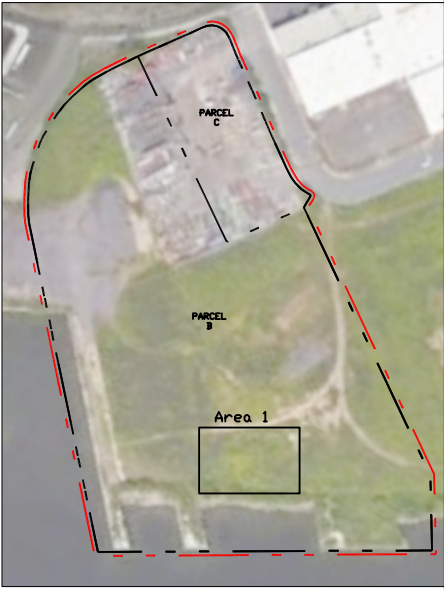
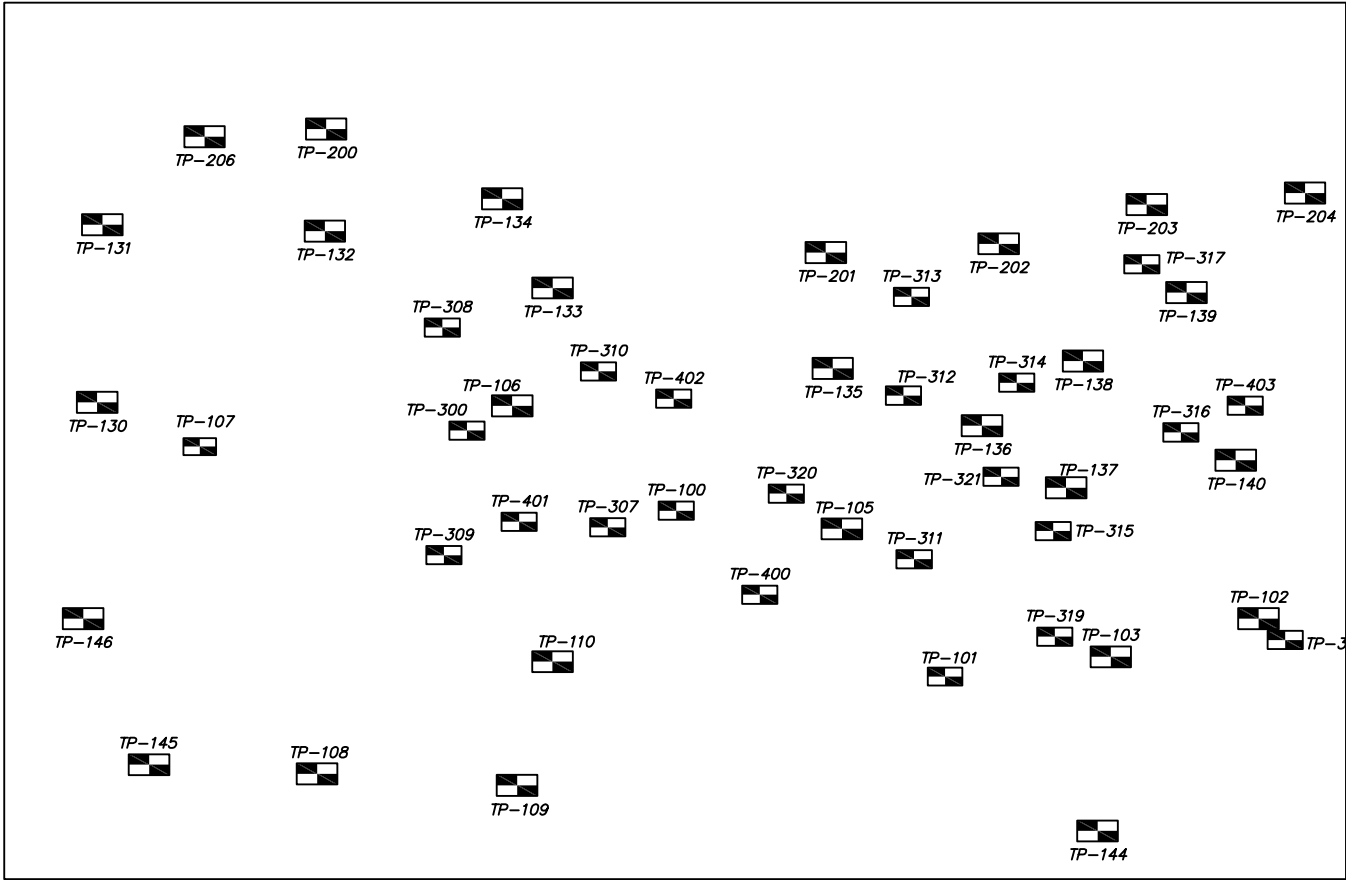
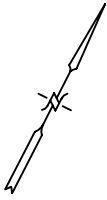



**LEGEND**

- PARCEL BOUNDARY
- - - ACT 2 BOUNDARY
- TP-33 TEST PITS FROM 2006 CONTAINING SURFACE AND SUBSURFACE SOIL SAMPLES
- SS-19 SURFACE SOIL SAMPLE LOCATIONS FROM MARCH 2008
- △ SURFACE SOIL SAMPLE LOCATIONS FROM FEBRUARY 2021



 <b>RT Environmental Services, Inc.</b> 215 West Church Road King of Prussia, PA 19135				
Prepared For: <b>DYOTT CORP./COLUMBUS BOULEVARD ASSOC.</b> 6985 TORRESDALE AVENUE, SUITE 200 PHILADELPHIA, PA 19135				
CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
70588-22				CH
SCALE		DRAWING NUMBER		
1" = 150'		y:\rt projects\70500 series\70588-21\beach street site map.dwg		
DATE				
2/22/21				



 <b>RT Environmental Services, Inc.</b> 215 West Church Road King of Prussia, PA 19406				
<b>FIGURE 4</b> <b>TEST PIT LOCATION MAP- AREA 1</b> 2001 & 2005 RICHMOND STREET, PHILADELPHIA, PA				
Prepared For: <b>DYOTT CORP./COLUMBUS BOULEVARD ASSOC.</b> 6985 TORRESDALE AVENUE, SUITE 200 PHILADELPHIA, PA 19135				
CHARGE	AUTOCAD FILE	ENGINEER	DESIGNER	DRAFTSPERSON
70588-22				VL
SCALE				
1" = 30'				
DATE				
3/14/19				
y:\rt projects\70500 series\70588-21\beach street site map.dwg				

## TABLES

**Table 1a**  
**SVOCs**  
**Surface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	SS-17	SS-18	SS-19	SS-20	SS-101	SS-102	SS-103	SS-104	
		0-2 ft	2-15 ft			Sample Depth	0-6"	0-6"	0-6"	0-6"	6"-1'	6"-1'	6"-1'	6"-1'
						Date	3/28/2008	3/28/2008	3/28/2008	3/28/2008	2/22/2021	2/22/2021	2/22/2021	2/22/2021
<b>SVOCs</b>														
Acenaphthene	13,000	190,000	190,000	4,700	4,700	<1.0	<1.0	<1.0	<1.0	<0.01	<0.01	<0.01	0.02	
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<1.0	<1.0	<1.0	<1.0	<0.0035	<0.0036	<0.0037	0.01	
Anthracene	66,000	190,000	190,000	350	350	<1.0	<1.0	1.2	<1.0	<0.011	<0.011	<0.011	0.051	
Benzo(a)anthracene	6	130	190,000	960	960	2	1.8	4.8	1.5	<0.012	0.018	0.045	0.21	
Benzo(a)pyrene	0.58	12	190,000	860	860	2	1.9	4.4	1.8	<0.0094	0.017	0.044	0.23	
Benzo(b)fluoranthene	3.5	76	190,000	170	170	3	2.2	5.9	2.1	<0.0091	0.025	0.057	0.31	
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	2	1.2	2.4	1.1	<0.01	<0.011	0.027	0.15	
Benzo(k)fluoranthene	4	76	190,000	610	610	1	1.1	2.4	<1.0	<0.0069	0.0071	0.018	0.092	
Chrysene	35	760	190,000	230	230	2	1.8	4.9	1.5	<0.0059	0.016	0.041	0.18	
Dibenzo(a,h)anthracene	1	22	190,000	270	270	<1.0	<1.0	<1.0	<1.0	<0.015	<0.015	<0.016	<0.045	
Fluoranthene	8,800	130,000	190,000	3,200	3,200	5	4.1	12	3.1	<0.012	0.019	0.071	0.34	
Fluorene	8,800	130,000	190,000	3,800	3,800	<1.0	<1.0	<1.0	<1.0	<0.0048	<0.0048	<0.005	0.016	
Indeno(1,2,3-cd)pyrene	25	110	190,000	190,000	190,000	2	1.4	2.7	1.3	<0.014	<0.014	0.03	0.16	
Naphthalene	160	760	190,000	7,500	7,500	<1.0	<1.0	<1.0	<1.0	<0.0061	<0.0062	<0.0064	<0.0063	
Phenanthrene	66,000	190,000	190,000	10,000	10,000	2	2	5.2	1	<0.0062	0.011	0.041	0.19	
Pyrene	6,600	96,000	190,000	2,200	2,200	3	2.9	8.3	2.4	<0.0087	0.019	0.067	0.32	

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

Exceeds a rSHS numeric value

Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 1a**  
**SVOCs**  
**Surface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	SS-105	SS-106	TP-5
		0-2 ft	2-15 ft					
				Sample Depth		6"-1'	6"-1'	S-8 / 1'
				Date		2/22/2021	2/22/2021	6/17/2003
<b>SVOCs</b>								
Acenaphthene	13,000	190,000	190,000	4,700	4,700	<0.01	0.33	<1.0
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	0.018	0.37	<1.0
Anthracene	66,000	190,000	190,000	350	350	<0.011	1.4	<1.0
Benzo(a)anthracene	6	130	190,000	960	960	0.072	5.7	2.9
Benzo(a)pyrene	0.58	12	190,000	860	860	0.12	6.7	2.8
Benzo(b)fluoranthene	3.5	76	190,000	170	170	0.17	9.1	2.7
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	0.09	2.6	1.9
Benzo(k)fluoranthene	4	76	190,000	610	610	0.047	2.8	2.2
Chrysene	35	760	190,000	230	230	0.11	5.7	3.1
Dibenzo(a,h)anthracene	1	22	190,000	270	270	0.026	0.92	<1.0
Fluoranthene	8,800	130,000	190,000	3,200	3,200	0.12	12	5.8
Fluorene	8,800	130,000	190,000	3,800	3,800	<0.0048	0.48	<1.0
Indeno(1,2,3-cd)pyrene	25	110	190,000	190,000	190,000	0.078	3.5	2
Naphthalene	160	760	190,000	7,500	7,500	<0.0062	0.03	<1.0
Phenanthrene	66,000	190,000	190,000	10,000	10,000	0.045	5.5	3.2
Pyrene	6,600	96,000	190,000	2,200	2,200	0.11	9.8	4.3

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

Exceeds a rSHS numeric value

Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 1b**  
**SVOCs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP-1	TP-4	TP-5	TP-2	TP-3	
		0-2 ft	2-15 ft							Sample Depth	8'
				Date	7/5/2006	7/5/2006	7/5/2006	6/17/2003	6/17/2003	6/17/2003	6/17/2003
<b>SVOCs</b>											
Acenaphthene	13,000	190,000	190,000	4,700	4,700	<0.15	<0.5	0.22	<1.0	14	<0.1
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<0.15	<0.5	<0.1	<1.0	<1.0	<0.1
Anthracene	66,000	190,000	190,000	350	350	<0.15	<0.5	0.63	1.4	17	0.24
Benzo(a)anthracene	6	130	190,000	960	960	0.3	0.65	1.3	4.2	27	1.3
Benzo(a)pyrene	0.58	12	190,000	860	860	0.31	0.62	1.2	3.5	18	1.3
Benzo(b)fluoranthene	3.5	76	190,000	170	170	0.42	0.78	1.6	4.3	23	1.5
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	0.23	<0.5	0.79	1.7	5.8	0.67
Benzo(k)fluoranthene	4	76	190,000	610	610	0.15	<0.5	0.51	2.1	9	0.65
Butyl benzyl phthalate	9,800	10,000	10,000	10000	10000	-	-	-	<1.0	<1.0	<0.33
Chrysene	35	760	190,000	230	230	0.26	0.54	1.3	4.1	27	1.3
Dibenzo(a,h)anthracene	1	22	190,000	270	270	<0.15	<0.5	0.26	<1.0	2.6	0.21
Dibenzofuran	220	3,200	190,000	3800	3800	-	-	-	<1.0	12	<0.1
Di-n-butyl phthalate	10,000	10,000	10,000	190000	190000	-	-	-	<1.0	<0.33	<0.33
Fluoranthene	8,800	130,000	190,000	3200	3200	0.59	1.4	3.4	9.4	66	2.3
Fluorene	8,800	130,000	190,000	3,800	3,800	<0.15	<0.5	0.32	<1.0	14	<0.1
Indeno(1,2,3-cd)pyrene	25	110	190,000	190000	190000	0.27	0.51	0.92	1.9	7	0.75
2-Methylnaphthalene	880	13,000	190,000	680	1,900	-	-	-	<1.0	8.7	<0.1
3,4-Methylphenol	10000	10,000	10,000	10,000	10,000	-	-	-	<1.0	1.1	<0.1
Naphthalene	160	760	190,000	7500	7500	<0.15	<0.5	<0.1	<1.0	13	<0.1
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	-	-	-	<1.0	<1.0	<0.1
Phenanthrene	66,000	190,000	190,000	10000	10000	0.3	1.1	2.2	5.6	110	1
Pyrene	6,600	96,000	190,000	2200	2200	0.51	1	2	6.9	53	1.9

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

"-" - sample was not analyzed for that constituent

 Exceeds a rSHS Exceeds the nrSHS

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer



**Table 1b**  
**SVOCs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP- 3 (8)	TP-4	TP-5	TP-6		TP-8					
		0-2 ft	2-15 ft						Sample Depth	S-19 / 11'	S-7 / 8'	S-9 / 7.5	S-10 / 3'	S-11 / 10.5'	S-14 / 3'	S-15 / 11'
<b>SVOCs</b>																
Acenaphthene	13,000	190,000	190,000	4,700	4,700	3	<0.099	<0.5	<2.1	0.46	<0.1	1.4				
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<3.9	<0.099	<0.5	<2.1	0.12	0.28	<1.0				
Anthracene	66,000	190,000	190,000	350	350	2	<0.099	<0.5	<2.1	0.54	0.21	4.5				
Benzo(a)anthracene	6	130	190,000	960	960	2	0.33	1.2	4.6	1.4	1.1	7.7				
Benzo(a)pyrene	0.58	12	190,000	860	860	2.3	0.36	0.87	4.6	1.2	1	6.1				
Benzo(b)fluoranthene	3.5	76	190,000	170	170	1.8	0.44	1.1	6.1	1.5	1.3	7.1				
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	1.6	0.21	<0.5	3.3	0.6	0.51	2.7				
Benzo(k)fluoranthene	4	76	190,000	610	610	2.6	0.14	<0.5	2.4	0.76	0.76	3.7				
Butyl benzyl phthalate	9,800	10,000	10,000	10000	10000	-	-	-	2.8	<0.1	<0.1	<1.0				
Chrysene	35	760	190,000	230	230	3.1	0.34	0.92	5	1.4	1.2	7.4				
Dibenzo(a,h)anthracene	1	22	190,000	270	270	<0.39	<0.099	<0.5	<2.1	0.2	0.2	<1.0				
Dibenzofuran	220	3,200	190,000	3800	3800	-	-	-	<2.1	0.2	<0.1	1.3				
Di-n-butyl phthalate	10,000	10,000	10,000	190000	190000	-	-	-	<7.0	<0.33	0.41	<3.3				
Fluoranthene	8,800	130,000	190,000	3200	3200	3.8	0.57	1.8	10	3.3	2.3	22				
Fluorene	8,800	130,000	190,000	3,800	3,800	3.2	<0.099	<0.5	<2.1	0.45	<0.1	2.1				
Indeno(1,2,3-cd)pyrene	25	110	190,000	190000	190000	1.3	0.22	<0.5	<2.1	0.7	0.6	3.3				
2-Methylnaphthalene	880	13,000	190,000	680	1,900	-	-	-	<2.1	<0.1	<0.1	<1.0				
3,4-Methylphenol	10000	10,000	10,000	10,000	10,000	-	-	-	<2.1	<0.1	<0.1	<1.0				
Naphthalene	160	760	190,000	7500	7500	5.1	<0.099	<0.5	<2.1	<0.1	<0.1	<1.0				
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	-	-	-	<2.1	<0.1	<0.1	1.3				
Phenanthrene	66,000	190,000	190,000	10000	10000	13	0.21	0.65	5.3	2.1	0.81	17				
Pyrene	6,600	96,000	190,000	2200	2200	5.5	0.5	1.6	6.7	2	1.2	11				

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

"-" - sample was not analyzed for that constituent

 Exceeds a rSHS Exceeds the nrSHS

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 1b**  
**SVOCs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP-9	TP-10		TP-11		
		0-2 ft	2-15 ft				Sample Depth	S-17 / 13'	S-18 / 3'	S-19 / 13.5'	S-20 / 3'
						Date	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003
<b>SVOCs</b>											
Acenaphthene	13,000	190,000	190,000	4,700	4,700	2.5	2.1	<0.1	<0.5	<0.1	
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<0.5	<1.0	<0.1	<0.5	<0.1	
Anthracene	66,000	190,000	190,000	350	350	4.2	3.3	0.19	1	<0.1	
Benzo(a)anthracene	6	130	190,000	960	960	5.3	14	0.64	3.2	<0.1	
Benzo(a)pyrene	0.58	12	190,000	860	860	4.4	15	0.6	2.8	<0.1	
Benzo(b)fluoranthene	3.5	76	190,000	170	170	5.4	17	0.81	3.5	0.11	
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	2.7	11	0.42	1.4	<0.1	
Benzo(k)fluoranthene	4	76	190,000	610	610	1.5	8.7	0.27	1.1	<0.1	
Butyl benzyl phthalate	9,800	10,000	10,000	10000	10000	<0.5	<1.0	<0.1	<0.5	<0.1	
Chrysene	35	760	190,000	230	230	5	14	0.68	2.9	0.27	
Dibenzo(a,h)anthracene	1	22	190,000	270	270	0.77	3.1	0.12	<0.5	<0.1	
Dibenzofuran	220	3,200	190,000	3800	3800	1.8	1.1	<0.1	<0.5	<0.1	
Di-n-butyl phthalate	10,000	10,000	10,000	190000	190000	<1.6	<3.3	<0.33	<1.6	<0.33	
Fluoranthene	8,800	130,000	190,000	3200	3200	15	28	1.3	8.6	0.11	
Fluorene	8,800	130,000	190,000	3,800	3,800	2.4	1.5	<0.1	0.55	<0.1	
Indeno(1,2,3-cd)pyrene	25	110	190,000	190000	190000	2.9	12	0.42	1.6	<0.1	
2-Methylnaphthalene	880	13,000	190,000	680	1,900	0.74	1.1	<0.1	<0.5	<0.1	
3,4-Methylphenol	10000	10,000	10,000	10,000	10,000	<0.5	<1.0	<0.1	<0.5	<0.1	
Naphthalene	160	760	190,000	7500	7500	1.3	1.1	<0.1	<0.5	<0.1	
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	<0.5	<1.0	<0.1	<0.5	<0.1	
Phenanthrene	66,000	190,000	190,000	10000	10000	17	11	0.62	5.9	0.1	
Pyrene	6,600	96,000	190,000	2200	2200	11	17	0.87	3.9	0.15	

All results in mg/kg

ND or "<" - constituent was not detected above the reporting limit

"-" - sample was not analyzed for that constituent

 Exceeds a rSHS Exceeds the nrSHS

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 1b**  
**SVOCs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP-12	TP-13		TP-14		
		0-2 ft	2-15 ft				Sample Depth	S-22 / 6'	S-23 / 6'	S-24 / 5.5'	S-25 / 6'
						Date	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003
<b>SVOCs</b>											
Acenaphthene	13,000	190,000	190,000	4,700	4,700	<0.073	<0.1	<0.1	<0.1	<0.1	
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<0.073	<0.1	<0.1	<0.1	<0.1	
Anthracene	66,000	190,000	190,000	350	350	<0.073	<0.1	<0.1	<0.1	<0.1	
Benzo(a)anthracene	6	130	190,000	960	960	<0.073	<0.1	<0.1	<0.1	<0.1	
Benzo(a)pyrene	0.58	12	190,000	860	860	<0.073	<0.1	<0.1	<0.1	<0.1	
Benzo(b)fluoranthene	3.5	76	190,000	170	170	<0.073	<0.1	<0.1	<0.1	<0.1	
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	<0.073	<0.1	<0.1	<0.1	<0.1	
Benzo(k)fluoranthene	4	76	190,000	610	610	<0.073	<0.1	<0.1	<0.1	<0.1	
Butyl benzyl phthalate	9,800	10,000	10,000	10000	10000	-	-	-	-	-	
Chrysene	35	760	190,000	230	230	<0.073	<0.1	<0.1	<0.1	<0.1	
Dibenzo(a,h)anthracene	1	22	190,000	270	270	<0.073	<0.1	<0.1	<0.1	<0.1	
Dibenzofuran	220	3,200	190,000	3800	3800	-	-	-	-	-	
Di-n-butyl phthalate	10,000	10,000	10,000	190000	190000	-	-	-	-	-	
Fluoranthene	8,800	130,000	190,000	3200	3200	<0.073	<0.1	<0.1	<0.1	<0.1	
Fluorene	8,800	130,000	190,000	3,800	3,800	<0.073	<0.1	<0.1	<0.1	<0.1	
Indeno(1,2,3-cd)pyrene	25	110	190,000	190000	190000	<0.073	<0.1	<0.1	<0.1	<0.1	
2-Methylnaphthalene	880	13,000	190,000	680	1,900	-	-	-	-	-	
3,4-Methylphenol	10000	10,000	10,000	10,000	10,000	-	-	-	-	-	
Naphthalene	160	760	190,000	7500	7500	<0.073	<0.1	<0.1	<0.1	<0.1	
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	-	-	-	-	-	
Phenanthrene	66,000	190,000	190,000	10000	10000	<0.073	<0.1	<0.1	<0.1	<0.1	
Pyrene	6,600	96,000	190,000	2200	2200	<0.073	<0.1	<0.1	<0.1	<0.1	

All results in mg/kg

ND or "<" - constituent was not detected above the reporting limit

"-" - sample was not analyzed for that constituent

 Exceeds a rSHS Exceeds the nrSHS

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 2a**  
**Metals**  
**Surface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP-12	TP-13	SS-17	SS-18	SS-19	SS-20	TP-5	
		0-2 ft	2-15 ft										Sample Depth
						Date	10/2/2003	10/2/2003	3/28/2008	3/28/2008	3/28/2008	3/28/2008	6/17/2003
<b>Metals</b>													
Arsenic	12	61	190,000	29,000	29,000	-	-	13	6.7	5.2	5.2	30	
Barium	44,000	190,000	190,000	190,000	190,000	-	-	170	100	100	78	250	
Cadmium	110	1,600	190,000	38,000	38,000	-	-	4.1	1.4	1.2	<1.0	7	
Chromium	4	220	20,000	190,000	190,000	-	-	33	81	35	400	320	
Lead	500	1,000	190,000	190,000	190,000	340	230	530	230	250	120	1,400	
Mercury	35	510	190,000	10,000	10,000	1.44	0.381	0.482	0.399	0.334	2.99	17	
Selenium	1,100	16,000	190,000	26,000	26,000	-	-	<12	<12	<12	<12	<12	
Silver	1,100	16,000	190,000	84,000	84,000	-	-	<2.5	<2.5	<2.5	<2.5	<2.5	

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

Exceeds a rSHS numeric value

Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 2b**  
**Metals**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6	TP-8	TP-9	TP-11
		0-2 ft	2-15 ft			Sample Depth	8'	10'	5'	4'	5'	5'	9'	12'
						Date	7/5/2006	7/5/2006	7/5/2006	7/5/2006	7/5/2006	7/5/2006	7/5/2006	7/5/2006
<b>Metals</b>														
Arsenic	12	61	190,000	29,000	29,000	6	6	14	6.3	2.4	4	6.8	12	37
Barium	44,000	190,000	190,000	190,000	190,000	-	-	-	-	-	-	-	-	-
Beryllium	440	6,400	190,000	190,000	190,000	0.56	0.45	4.1	0.83	0.31	0.63	0.47	0.44	0.55
Cadmium	110	1,600	190,000	38,000	38,000	<1.5	1	1.3	5.3	<1	<1.3	<1.3	<1.4	<1.3
Chromium	4	220	20,000	190,000	190,000	9.7	6.2	130	130	13	42	19	9.1	9.4
Lead	500	1,000	190,000	190,000	190,000	170	25	640	2200	300	280	180	940	410
Mercury	35	510	190,000	10,000	10,000	0.712	<0.1	8.43	4.79	0.489	0.525	1.17	23.2	2.93
Selenium	1,100	16,000	190,000	26,000	26,000	<19	<12	<12	<12	<12	<16	<17	<17	<16
Silver	1,100	16,000	190,000	84,000	84,000	<3.7	<2.5	<2.5	<2.5	<2.5	<3.2	<3.3	<3.4	<3.3

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

  Exceeds a rSHS numeric value

  Exceeds a r Exceeds the nrSHS

NUA - Non-use Aquifer

**Table 2b**  
**Metals**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP-12	TP-13		TP-13 (11)	TP-4	TP-5	TP-12	TP-14		
		0-2 ft	2-15 ft				Sample Depth	S-23 / 6'					S-24 / 5.5'	S-7 / 8'	S-9 / 7.5'
						Date	7/5/2006	6/17/2003	6/17/2003	7/5/2006	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003
<b>Metals</b>															
Arsenic	12	61	190,000	29,000	29,000	15	<8.0	<8.0	2.8	23	<8.0	<8.0	<8.0	<8.0	
Barium	44,000	190,000	190,000	190,000	190,000	-	68	78	-	82	73	82	130	47	
Beryllium	440	6,400	190,000	190,000	190,000	0.61	-	-	0.58	-	-	-	-	-	
Cadmium	110	1,600	190,000	38,000	38,000	<1	<1.0	<1.0	<1.5	<1.3	<1.0	<1.0	<1.0	<1.0	
Chromium	4	220	20,000	190,000	190,000	9.1	19	19	13	51	22	9.4	10	18	
Lead	500	1,000	190,000	190,000	190,000	190	17	16	370	190	61	<5.0	7	6.5	
Mercury	35	510	190,000	10,000	10,000	0.669	<0.10	0.103	0.298	0.208	0.197	<0.10	<0.10	<0.10	
Selenium	1,100	16,000	190,000	26,000	26,000	<12	<12	<12	<19	<16	<12	<12	<12	<12	
Silver	1,100	16,000	190,000	84,000	84,000	<2.5	<2.5	<2.5	<3.7	<3.2	<2.5	<2.5	<2.5	<2.5	

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

Exceeds a rSHS numeric value

Exceeds a rSHS numeric value

NUA - Non-use Aquifer


**Table 3a**  
**PCBs**  
**Surface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**


Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	SS-17	SS-18	SS-19	SS-20
		0-2 ft	2-15 ft					0-6"	0-6"	0-6"	0-6"
					Date			3/28/2008	3/28/2008	3/28/2008	3/28/2008
<b>PCB</b>											
PCB-1016	9	46	10,000	10	47	nsv	nsv	<0.25	<0.1	<0.1	<0.1
PCB-1221	9	46	10,000	0.18	0.83	0.02	0.08	<0.25	<0.1	<0.1	<0.1
PCB-1232	9	46	10,000	0.14	0.7	0.01	0.07	<0.25	<0.1	<0.1	<0.1
PCB-1242	9	46	10,000	4	20	nsv	nsv	<0.25	<0.1	<0.1	<0.1
PCB-1248	9.3	46	10,000	18	81	nsv	nsv	<0.25	<0.1	<0.1	<0.1
PCB-1254	4.4	46	10,000	75	340	nsv	nsv	<0.25	<0.1	<0.1	<0.1
PCB-1260	9	46	190,000	170	770	nsv	nsv	0.71	0.19	0.26	0.1

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nsv - No vapor intrusion screening value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 3b**  
**PCBs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**


Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	TP-1	TP-2	TP-3	TP-5	TP-6
		0-2 ft	2-15 ft					8'	10'	5'	5'	5'
	Sample Depth		Date		7/5/2006			7/5/2006	7/5/2006	7/5/2006	7/5/2006	
<b>PCBs</b>												
PCB-1016	9	46	10,000	10	47	nsv	nsv	<0.075	<0.05	<0.25	<0.5	<0.065
PCB-1221	9	46	10,000	0.18	0.83	0.02	0.08	<0.075	<0.05	<0.25	<0.5	<0.065
PCB-1232	9	46	10,000	0.14	0.7	0.01	0.07	<0.075	<0.05	<0.25	<0.5	<0.065
PCB-1242	9	46	10,000	4	20	nsv	nsv	<0.075	<0.05	<0.25	<0.5	<0.065
PCB-1248	9.3	46	10,000	18	81	nsv	nsv	<0.075	<0.05	<0.25	<0.5	<0.065
PCB-1254	4.4	46	10,000	75	340	nsv	nsv	<0.075	<0.05	0.76	<0.5	0.23
PCB-1260	9	46	190,000	170	770	nsv	nsv	<0.075	<0.05	0.48	1.1	0.11

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nsv - No vapor intrusion screening value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer



**Table 3b**  
**PCBs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	TP-8	TP-9	TP-11	TP-12	TP-13	
		0-2 ft	2-15 ft	Sample Depth				9'	12'	12'	12'	S-23 / 6'	S-24 / 5.5'
					Date			7/5/2006	7/5/2006	7/5/2006	7/5/2006	6/17/2003	6/17/2003
<b>PCBs</b>													
PCB-1016	9	46	10,000	10	47	nsv	nsv	<0.33	<0.068	<0.065	<0.05	<0.041	<0.05
PCB-1221	9	46	10,000	0.18	0.83	0.02	0.08	<0.33	<0.068	<0.065	<0.05	<0.041	<0.05
PCB-1232	9	46	10,000	0.14	0.7	0.01	0.07	<0.33	<0.068	<0.065	<0.05	<0.041	<0.05
PCB-1242	9	46	10,000	4	20	nsv	nsv	<0.33	<0.068	<0.065	<0.05	<0.041	<0.05
PCB-1248	9.3	46	10,000	18	81	nsv	nsv	0.92	<0.068	<0.065	<0.05	<0.041	<0.05
PCB-1254	4.4	46	10,000	75	340	nsv	nsv	1	<0.068	<0.065	<0.05	<0.041	<0.05
PCB-1260	9	46	190,000	170	770	nsv	nsv	<0.33	<0.068	<0.065	<0.05	<0.041	<0.05

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nsv - No vapor intrusion screening value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 3b**  
**PCBs**  
**Subsurface Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**


Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	TP-13	TP-4	TP-5
		0-2 ft	2-15 ft	Sample Depth				11'	S-7 / 8'	S-9 / 7.5
					Date			7/5/2006	6/17/2003	6/17/2003
<b>PCBs</b>										
PCB-1016	9	46	10,000	10	47	nsv	nsv	<0.075	<0.065	<0.1
PCB-1221	9	46	10,000	0.18	0.83	0.02	0.08	<0.075	<0.065	<0.1
PCB-1232	9	46	10,000	0.14	0.7	0.01	0.07	<0.075	<0.065	<0.1
PCB-1242	9	46	10,000	4	20	nsv	nsv	<0.075	<0.065	<0.1
PCB-1248	9.3	46	10,000	18	81	nsv	nsv	<0.075	<0.065	<0.1
PCB-1254	4.4	46	10,000	75	340	nsv	nsv	<0.075	<0.065	0.31
PCB-1260	9	46	190,000	170	770	nsv	nsv	<0.075	<0.065	<0.1

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nsv - No vapor intrusion screening value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA - Non-use Aquifer

**Table 4**  
**SVOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil to Groundwater	NUA nrSHS Soil to Groundwater	TP 1-1.5	TP 3-8.0	TP 5-2.0	
		0-2 ft	2-15 ft						Sample Depth
						1.5-2'	8.0-8.5'	2-2.5'	
						Date	1/31/2013	1/31/2013	1/31/2013
<b>SVOCs</b>									
Acenaphthene	13,000	190,000	190,000	4,700	4,700	0.0333	0.522	0.079	
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	0.0311	<0.012	0.034	
Acetophenone	10,000	10,000	10,000	420	1,200	<0.007	<0.0065	<0.0067	
Anthracene	66,000	190,000	190,000	350	350	0.124	0.146	0.193	
Atrazine	81	400	190,000	0.3	0.3	<0.0078	<0.0073	<0.0075	
Benzo(a)anthracene	6	130	190,000	960	960	0.483	<0.012	0.628	
Benzo(a)pyrene	0.58	12	190,000	860	860	0.437	<0.011	0.579	
Benzo(b)fluoranthene	3.5	76	190,000	170	170	0.451	<0.012	0.571	
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	0.273	<0.014	0.365	
Benzo(k)fluoranthene	4	76	190,000	610	610	0.335	<0.014	0.439	
4-Bromophenyl phenyl ether	nnv	nnv	nnv	nnv	nnv	<0.014	<0.013	<0.014	
Butyl benzyl phthalate	9,800	10,000	10,000	10,000	10,000	<0.023	<0.022	<0.022	
1,1'-Biphenyl	2,300	11,000	190,000	3,100	3,100	<0.0046	<0.0043	<0.0044	
Benzaldehyde	nnv	nnv	nnv	nnv	nnv	<0.0091	<0.0085	<0.0088	
2-Chloronaphthalene	18,000	190,000	190,000	7,000	20,000	<0.012	<0.012	<0.012	
4-Chloroaniline	93	460	190,000	0.5	2.1	<0.013	<0.012	<0.012	
Carbazole	930	4,600	190,000	24	110	0.0428	<0.017	0.0591	
Caprolactam	nnv	nnv	nnv	nnv	nnv	<0.013	<0.012	<0.012	
Chrysene	35	760	190,000	230	230	0.486	<0.013	0.684	
bis(2-Chloroethoxy)methane	660	9,600	10,000	13	35	<0.016	<0.015	<0.015	
bis(2-Chloroethyl)ether	1.3	6.7	7.7	1.5	7.6	<0.012	<0.011	<0.011	
bis(2-Chloroisopropyl)ether	nnv	nnv	nnv	nnv	nnv	<0.012	<0.011	<0.011	
4-Chlorophenyl phenyl ether	nnv	nnv	nnv	nnv	nnv	<0.012	<0.011	<0.011	
2,4-Dinitrotoluene	60	290	190,000	240	1,100	<0.017	<0.016	<0.017	
2,6-Dinitrotoluene	12	61	190,000	49	230	<0.015	<0.014	<0.015	
3,3'-Dichlorobenzidine	41	200	190,000	8,800	17,000	<0.010	<0.0094	<0.0097	
Dibenzo(a,h)anthracene	1	22	190,000	270	270	0.0942	<0.013	0.1110	
Dibenzofuran	220	3,200	190,000	12,000	12,000	0.0234	<0.011	0.0312	
Di-n-butyl phthalate	nnv	nnv	nnv	nnv	nnv	<0.0088	<0.0083	<0.0085	

**Table 4**  
**SVOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil to Groundwater	NUA nrSHS Soil to Groundwater	TP 1-1.5	TP 3-8.0	TP 5-2.0
		0-2 ft	2-15 ft					
						1.5-2'	8.0-8.5'	2-2.5'
					Date	1/31/2013	1/31/2013	1/31/2013
Di-n-octyl phthalate	10,000	10,000	10,000	10,000	10,000	<0.19	<0.018	<0.019
Diethyl phthalate	10,000	10,000	10,000	10,000	10,000	<0.014	<0.013	<0.013
Dimethyl phthalate	nnv	nnv	nnv	nnv	nnv	0.0648	<0.013	<0.013
bis(2-Ethylhexyl)phthalate	1,300	6,500	10,000	6,300	6,300	0.083	0.081	0.132
Fluoranthene	8,800	130,000	190,000	3,200	3,200	0.883	<0.016	1.210
Fluorene	8,800	130,000	190,000	3,800	3,800	0.0285	0.706	0.0683
Hexachlorobenzene	12	57	190,000	5.8	5.8	<0.013	<0.012	<0.012
Hexachlorobutadiene	220	1,200	10,000	3,400	3,400	<0.011	<0.010	<0.011
Hexachlorocyclopentadiene	1,300	10,000	10,000	3,300	3,300	<0.041	<0.038	<0.039
Hexachloroethane	44	220	260	56	56	<0.011	<0.010	<0.011
Indeno(1,2,3-cd)pyrene	25	110	190,000	190,000	190,000	0.250	<0.013	0.324
Isophorone	10,000	10,000	10,000	10,000	10,000	<0.011	<0.010	<0.010
2-Methylnaphthalene	880	13,000	190,000	680	1,900	0.0264	<0.021	<0.021
2-Nitroaniline	2,200	32,000	190,000	42	120	<0.017	<0.016	<0.017
3-Nitroaniline	880	4,600	190,000	3.7	17	<0.016	<0.015	<0.015
4-Nitroaniline	nnv	nnv	nnv	nnv	nnv	<0.015	<0.014	<0.015
Naphthalene	160	760	190,000	7,500	7,500	0.026	<0.010	0.331
Nitrobenzene	440	6,400	10,000	8,300	10,000	<0.011	<0.011	<0.011
N-Nitroso-di-n-propylamine	3	13	10,000	10	49	<0.0097	<0.0091	<0.0093
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	<0.024	<0.022	<0.023
Phenanthrene	66,000	190,000	190,000	10,000	10,000	0.498	0.957	1.030
Pyrene	6,600	96,000	190,000	2,200	2,200	0.821	0.201	1.310
1,2,4,5-Tetrachlorobenzene	66	960	190,000	270	270	<0.012	<0.011	<0.012

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

  Exceeds a rSHS numeric value

  Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 4**  
**SVOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil to Groundwater	NUA nrSHS Soil to Groundwater	TP 8-4.0	TP 9-4.0	TP 11-4.5	
		0-2 ft	2-15 ft						Sample Depth
						Date	2/1/2013	2/1/2013	2/1/2013
<b>SVOCs</b>									
Acenaphthene	13,000	190,000	190,000	4,700	4,700	0.420	0.0377	0.285	
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<0.057	0.0648	0.178	
Acetophenone	10,000	10,000	10,000	420	1,200	<0.032	<0.0064	<0.0061	
Anthracene	66,000	190,000	190,000	350	350	0.561	0.146	0.954	
Atrazine	81	400	190,000	0.3	0.3	<0.035	<0.072	<0.0068	
Benzo(a)anthracene	6	130	190,000	960	960	0.907	0.546	3.440	
Benzo(a)pyrene	0.58	12	190,000	860	860	<b>0.650</b>	0.575	<b>4.010</b>	
Benzo(b)fluoranthene	3.5	76	190,000	170	170	0.945	0.727	<b>4.610</b>	
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	0.518	0.423	2.520	
Benzo(k)fluoranthene	4	76	190,000	610	610	0.357	0.253	1.800	
4-Bromophenyl phenyl ether	nnv	nnv	nnv	nnv	nnv	<0.065	<0.013	<0.013	
Butyl benzyl phthalate	9,800	10,000	10,000	10,000	10,000	25.500	<0.021	<0.020	
1,1'-Biphenyl	2,300	11,000	190,000	3,100	3,100	3.610	<0.0042	0.0346	
Benzaldehyde	nnv	nnv	nnv	nnv	nnv	<0.041	<0.0084	<0.008	
2-Chloronaphthalene	18,000	190,000	190,000	7,000	20,000	<0.056	<0.011	<0.011	
4-Chloroaniline	93	460	190,000	0.5	2.1	<0.057	<0.012	<0.011	
Carbazole	930	4,600	190,000	24	110	0.319	0.0566	0.144	
Caprolactam	nnv	nnv	nnv	nnv	nnv	<0.057	<0.011	<0.011	
Chrysene	35	760	190,000	230	230	1.050	0.628	3.340	
bis(2-Chloroethoxy)methane	660	9,600	10,000	13	35	<0.073	<0.015	<0.014	
bis(2-Chloroethyl)ether	1.3	6.7	7.7	1.5	7.6	<0.054	<0.011	<0.010	
bis(2-Chloroisopropyl)ether	nnv	nnv	nnv	nnv	nnv	<0.053	<0.011	<0.010	
4-Chlorophenyl phenyl ether	nnv	nnv	nnv	nnv	nnv	<0.054	<0.011	<0.010	
2,4-Dinitrotoluene	60	290	190,000	240	1,100	<0.078	<0.016	<0.015	
2,6-Dinitrotoluene	12	61	190,000	49	230	<0.068	<0.014	<0.013	
3,3'-Dichlorobenzidine	41	200	190,000	8,800	17,000	<0.046	<0.0092	<0.0088	
Dibenzo(a,h)anthracene	1	22	190,000	270	270	0.158	0.119	0.7250	
Dibenzofuran	220	3,200	190,000	12,000	12,000	0.274	0.0225	0.2150	
Di-n-butyl phthalate	nnv	nnv	nnv	nnv	nnv	1.890	<0.0081	<0.0077	

**Table 4**  
**SVOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil to Groundwater	NUA nrSHS Soil to Groundwater	TP 8-4.0	TP 9-4.0	TP 11-4.5
		0-2 ft	2-15 ft					
						4-4.5'	4-4.5'	4.5-5'
						Date	2/1/2013	2/1/2013
Di-n-octyl phthalate	10,000	10,000	10,000	10,000	10,000	<0.087	<0.018	<0.017
Diethyl phthalate	10,000	10,000	10,000	10,000	10,000	0.218	<0.012	<0.012
Dimethyl phthalate	nnv	nnv	nnv	nnv	nnv	<0.063	0.204	0.0403
bis(2-Ethylhexyl)phthalate	1,300	6,500	10,000	6,300	6,300	3.930	0.228	0.248
Fluoranthene	8,800	130,000	190,000	3,200	3,200	1.880	1.170	8.100
Fluorene	8,800	130,000	190,000	3,800	3,800	0.450	0.0349	0.343
Hexachlorobenzene	12	57	190,000	5.8	5.8	<0.059	<0.012	<0.011
Hexachlorobutadiene	220	1,200	10,000	3,400	3,400	<0.050	<0.010	<0.0096
Hexachlorocyclopentadiene	1,300	10,000	10,000	3,300	3,300	<0.180	<0.037	<0.035
Hexachloroethane	44	220	260	56	56	<0.050	<0.010	<0.0096
Indeno(1,2,3-cd)pyrene	25	110	190,000	190,000	190,000	0.417	0.356	2.400
Isophorone	10,000	10,000	10,000	10,000	10,000	<0.048	<0.0098	<0.0093
2-Methylnaphthalene	880	13,000	190,000	680	1,900	2.100	0.0217	0.107
2-Nitroaniline	2,200	32,000	190,000	42	120	<0.079	<0.016	<0.015
3-Nitroaniline	880	4,600	190,000	3.7	17	<0.072	<0.015	<0.014
4-Nitroaniline	nnv	nnv	nnv	nnv	nnv	<0.070	<0.014	<0.014
Naphthalene	160	760	190,000	7,500	7,500	0.729	0.0219	0.0606
Nitrobenzene	440	6,400	10,000	8,300	10,000	<0.052	<0.011	<0.010
N-Nitroso-di-n-propylamine	3	13	10,000	10	49	<0.044	<0.0089	<0.0084
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	<0.110	<0.022	<0.021
Phenanthrene	66,000	190,000	190,000	10,000	10,000	2.260	0.484	2.150
Pyrene	6,600	96,000	190,000	2,200	2,200	2.060	0.976	6.730
1,2,4,5-Tetrachlorobenzene	66	960	190,000	270	270	<0.055	<0.011	<0.011

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

  Exceeds a rSHS numeric value

  Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 4**  
**SVOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil to Groundwater	NUA nrSHS Soil to Groundwater	TP 12-8.0	TP 14-5.0	TP 16-7.5	
		0-2 ft	2-15 ft						Sample Depth
						8-8.5'	5-5.5'	7.5-8'	
						Date	2/4/2013	2/4/2013	2/4/2013
<b>SVOCs</b>									
Acenaphthene	13,000	190,000	190,000	4,700	4,700	0.691	1.420	0.386	
Acenaphthylene	13,000	190,000	190,000	18,000	18,000	<0.012	<0.012	0.130	
Acetophenone	10,000	10,000	10,000	420	1,200	<0.006	<0.0065	<0.0073	
Anthracene	66,000	190,000	190,000	350	350	0.263	1.700	1.020	
Atrazine	81	400	190,000	0.3	0.3	<0.007	<0.0073	<0.0082	
Benzo(a)anthracene	6	130	190,000	960	960	0.188	2.120	2.380	
Benzo(a)pyrene	0.58	12	190,000	860	860	0.126	<b>1.960</b>	<b>1.990</b>	
Benzo(b)fluoranthene	3.5	76	190,000	170	170	0.118	3.080	1.890	
Benzo(g,h,i)perylene	13,000	190,000	190,000	180	180	0.067	1.290	1.170	
Benzo(k)fluoranthene	4	76	190,000	610	610	0.105	1.160	1.510	
4-Bromophenyl phenyl ether	nnv	nnv	nnv	nnv	nnv	<0.014	<0.013	<0.015	
Butyl benzyl phthalate	9,800	10,000	10,000	10,000	10,000	<0.022	0.636	<0.024	
1,1'-Biphenyl	2,300	11,000	190,000	3,100	3,100	<0.004	0.172	0.0338	
Benzaldehyde	nnv	nnv	nnv	nnv	nnv	<0.008	<0.0085	<0.0096	
2-Chloronaphthalene	18,000	190,000	190,000	7,000	20,000	<0.012	<0.011	<0.013	
4-Chloroaniline	93	460	190,000	0.5	2.1	<0.012	<0.012	<0.013	
Carbazole	930	4,600	190,000	24	110	<0.018	<0.017	0.496	
Caprolactam	nnv	nnv	nnv	nnv	nnv	<0.012	<0.012	<0.013	
Chrysene	35	760	190,000	230	230	0.196	3.040	2.790	
bis(2-Chloroethoxy)methane	660	9,600	10,000	13	35	<0.016	<0.015	<0.017	
bis(2-Chloroethyl)ether	1.3	6.7	7.7	1.5	7.6	<0.012	<0.011	<0.013	
bis(2-Chloroisopropyl)ether	nnv	nnv	nnv	nnv	nnv	<0.011	<0.011	<0.012	
4-Chlorophenyl phenyl ether	nnv	nnv	nnv	nnv	nnv	<0.012	<0.011	<0.013	
2,4-Dinitrotoluene	60	290	190,000	240	1,100	<0.017	<0.016	<0.018	
2,6-Dinitrotoluene	12	61	190,000	49	230	<0.015	<0.014	<0.016	
3,3'-Dichlorobenzidine	41	200	190,000	8,800	17,000	<0.009	<0.0094	<0.011	
Dibenzo(a,h)anthracene	1	22	190,000	270	270	0.028	0.429	0.4840	
Dibenzofuran	220	3,200	190,000	12,000	12,000	0.776	0.485	0.2710	
Di-n-butyl phthalate	nnv	nnv	nnv	nnv	nnv	<0.008	3.730	<0.0092	

**Table 4**  
**SVOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil to Groundwater	NUA nrSHS Soil to Groundwater	TP 12-8.0	TP 14-5.0	TP 16-7.5
		0-2 ft	2-15 ft					
						8-8.5'	5-5.5'	7.5-8'
					Date	2/4/2013	2/4/2013	2/4/2013
Di-n-octyl phthalate	10,000	10,000	10,000	10,000	10,000	<0.019	0.471	<0.020
Diethyl phthalate	10,000	10,000	10,000	10,000	10,000	<0.013	<0.013	<0.014
Dimethyl phthalate	nnv	nnv	nnv	nnv	nnv	<0.014	<0.013	0.0628
bis(2-Ethylhexyl)phthalate	1,300	6,500	10,000	6,300	6,300	<0.034	8.750	0.160
Fluoranthene	8,800	130,000	190,000	3,200	3,200	0.654	3.900	4.110
Fluorene	8,800	130,000	190,000	3,800	3,800	1.810	1.760	0.466
Hexachlorobenzene	12	57	190,000	5.8	5.8	<0.013	<0.012	<0.014
Hexachlorobutadiene	220	1,200	10,000	3,400	3,400	<0.011	<0.010	<0.012
Hexachlorocyclopentadiene	1,300	10,000	10,000	3,300	3,300	<0.039	<0.038	<0.042
Hexachloroethane	44	220	260	56	56	<0.011	<0.010	<0.012
Indeno(1,2,3-cd)pyrene	25	110	190,000	190,000	190,000	0.068	1.140	1.170
Isophorone	10,000	10,000	10,000	10,000	10,000	<0.010	<0.010	<0.011
2-Methylnaphthalene	880	13,000	190,000	680	1,900	0.374	0.887	0.103
2-Nitroaniline	2,200	32,000	190,000	42	120	<0.017	<0.016	<0.018
3-Nitroaniline	880	4,600	190,000	3.7	17	<0.015	<0.015	<0.017
4-Nitroaniline	nnv	nnv	nnv	nnv	nnv	<0.015	<0.014	<0.016
Naphthalene	160	760	190,000	7,500	7,500	0.126	0.862	0.119
Nitrobenzene	440	6,400	10,000	8,300	10,000	<0.011	<0.011	<0.012
N-Nitroso-di-n-propylamine	3	13	10,000	10	49	<0.009	<0.009	<0.010
N-Nitrosodiphenylamine	3,800	19,000	190,000	5,500	5,500	<0.023	<0.022	<0.025
Phenanthrene	66,000	190,000	190,000	10,000	10,000	0.419	3.100	4.770
Pyrene	6,600	96,000	190,000	2,200	2,200	0.549	4.360	4.030
1,2,4,5-Tetrachlorobenzene	66	960	190,000	270	270	<0.012	<0.011	<0.013

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

  Exceeds a rSHS numeric value

  Exceeds a nrSHS numeric value

NUA- Non-use Aquifer



**Table 5**  
**PCBs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	TP 1-1.5	TP 3-8.0	TP 5-2.0	
		0-2 ft	2-15 ft					Sample Depth	1.5-2'	8.0-8.5'	2-2.5'
						Date			1/31/2013	1/31/2013	1/31/2013
<b>PCBs</b>											
Aroclor 1016	9	46	10000	10	47	nsv	nsv	<0.010	<0.0097	<0.010	
Aroclor 1221	9	46	10000	0.18	0.83	0.018	0.083	<0.023	<0.022	<0.024	
Aroclor 1232	9	46	10000	0.14	0.7	0.014	0.07	<0.020	<0.019	<0.020	
Aroclor 1242	9	46	10000	4	20	nsv	nsv	<0.012	<0.012	<0.013	
Aroclor 1248	9.3	46	10000	18	81	nsv	nsv	<0.012	<0.011	<0.012	
Aroclor 1254	4.4	46	10000	75	340	nsv	nsv	<0.018	<0.017	<0.018	
Aroclor 1260	9	46	190000	170	770	nsv	nsv	0.187	<0.012	<0.013	
Aroclor 1268	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.011	<0.011	<0.012	
Aroclor 1262	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.012	<0.012	<0.013	

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

nsv - no SHS screenig value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 5**  
**PCBs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	TP 8-4.0	TP 9-4.0	TP 11-4.5
		0-2 ft	2-15 ft					Sample Depth	4-4.5'	4-4.5'
						Date				
<b>PCBs</b>										
Aroclor 1016	9	46	10000	10	47	nsv	nsv	<0.010	<0.0095	<0.0092
Aroclor 1221	9	46	10000	0.18	0.83	0.018	0.083	<0.023	<0.022	<0.021
Aroclor 1232	9	46	10000	0.14	0.7	0.014	0.07	<0.020	<0.018	<0.018
Aroclor 1242	9	46	10000	4	20	nsv	nsv	1.870	<0.012	<0.011
Aroclor 1248	9.3	46	10000	18	81	nsv	nsv	<0.012	<0.011	<0.011
Aroclor 1254	4.4	46	10000	75	340	nsv	nsv	<0.018	1.440	0.957
Aroclor 1260	9	46	190000	170	770	nsv	nsv	0.594	1.180	<0.012
Aroclor 1268	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.011	<0.011	<0.010
Aroclor 1262	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.012	<0.012	<0.011

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

nsv - no SHS screenig value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 5**  
**PCBs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSHS Vapor Intrusion screening values	nrSHS Vapor Intrusion screening values	TP 12-8.0	TP 14-5.0	TP 16-7.5
		0-2 ft	2-15 ft					8-8.5'	5-5.5'	7.5-8'
						Date				
<b>PCBs</b>										
Aroclor 1016	9	46	10000	10	47	nsv	nsv	<0.012	<0.011	<0.012
Aroclor 1221	9	46	10000	0.18	0.83	0.018	0.083	<0.027	<0.025	<0.027
Aroclor 1232	9	46	10000	0.14	0.7	0.014	0.07	<0.023	<0.021	<0.045
Aroclor 1242	9	46	10000	4	20	nsv	nsv	<0.014	<0.013	<0.045
Aroclor 1248	9.3	46	10000	18	81	nsv	nsv	0.0818	17.7	<0.014
Aroclor 1254	4.4	46	10000	75	340	nsv	nsv	<0.021	14.2	<0.021
Aroclor 1260	9	46	190000	170	770	nsv	nsv	<0.015	4.170	<0.015
Aroclor 1268	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.013	<0.012	<0.013
Aroclor 1262	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.014	<0.013	<0.014

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

nsv - no SHS screenig value

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value


NUA- Non-use Aquifer


**Table 6**  
**Metals**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP 1-1.5	TP 3-8.0	TP 5-2.0	
		0-2 ft	2-15 ft			Sample Depth	Sample Depth	Sample Depth	
						1.5-2'	8.0-8.5'	2-2.5'	
						Date	1/31/2013	1/31/2013	1/31/2013
<b>Metals</b>									
Antimony	88	1300	190000	27000	27000	7.8	<2.3	<2.5	
Arsenic	12	61	190000	29000	29000	<b>16</b>	<b>22.7</b>	<b>44.6</b>	
Beryllium	44	6400	190000	190000	190000	0.46	0.37	0.78	
Cadmium	110	1600	190000	190000	190000	1.7	2.6	1.0	
Chromium	4	220	20000	38000	38000	<b>54.9</b>	<b>9.8</b>	<b>21.8</b>	
Copper	8100	120000	190000	190000	190000	228	927	66.6	
Lead	500	1000	190000	190000	190000	428	<b>1500</b>	202	
Mercury	35	510	190000	10000	10000	1.5	0.12	0.43	
Nickel	4400	64000	190000	190000	190000	26.0	61.3	40.4	
Selenium	1100	16000	190000	26000	26000	<2.4	<2.3	<2.5	
Silver	1100	16000	190000	84000	84000	0.77	<0.57	<0.63	
Thallium	2	32	190000	14000	14000	<1.2	<1.1	<1.3	
Zinc	66000	190000	190000	190000	190000	369	72.9	395	

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value


NUA- Non-use Aquifer


**Table 6**  
**Metals**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP 8-4.0	TP 9-4.0	TP 11-4.5	TP 12-8.0
		0-2 ft	2-15 ft						
						Sample Depth			
						Date			
<b>Metals</b>									
Antimony	88	1300	190000	27000	27000	4.1	<2.3	<2.2	<2.9
Arsenic	12	61	190000	29000	29000	11.7	7.7	6.7	5.7
Beryllium	44	6400	190000	190000	190000	0.78	0.79	0.51	0.71
Cadmium	110	1600	190000	190000	190000	2.3	0.84	<0.54	<0.71
Chromium	4	220	20000	38000	38000	<b>95.1</b>	<b>37.3</b>	<b>31.6</b>	<b>44.4</b>
Copper	8100	120000	190000	190000	190000	324	96.1	64.3	43.2
Lead	500	1000	190000	190000	190000	<b>609</b>	430	133	122
Mercury	35	510	190000	10000	10000	0.89	0.36	0.64	0.34
Nickel	4400	64000	190000	190000	190000	51.8	49.2	26.3	22.0
Selenium	1100	16000	190000	26000	26000	<2.4	<2.3	<2.2	<2.9
Silver	1100	16000	190000	84000	84000	1.5	0.72	0.93	<0.71
Thallium	2	32	190000	14000	14000	<1.2	<1.1	<1.1	<1.4
Zinc	66000	190000	190000	190000	190000	1450	337	190	93.0

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value


NUA- Non-use Aquifer


**Table 6**  
**Metals**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	TP 14-5.0	TP 16-7.5
		0-2 ft	2-15 ft			Sample Depth	Sample Depth
						Date	Date
<b>Metals</b>							
Antimony	88	1300	190000	27000	27000	650	6.0
Arsenic	12	61	190000	29000	29000	<b>258</b>	<b>20.0</b>
Beryllium	44	6400	190000	190000	190000	3.1	0.90
Cadmium	110	1600	190000	190000	190000	20.7	1.8
Chromium	4	220	20000	38000	38000	<b>209</b>	<b>40.5</b>
Copper	8100	120000	190000	190000	190000	6810	113
Lead	500	1000	190000	190000	190000	<b>31700</b>	<b>1210</b>
Mercury	35	510	190000	10000	10000	3.3	0.58
Nickel	4400	64000	190000	190000	190000	1310	24.1
Selenium	1100	16000	190000	26000	26000	<5.0	<2.6
Silver	1100	16000	190000	84000	84000	2.2	<0.65
Thallium	2	32	190000	14000	14000	<b>&lt;12</b>	<1.3
Zinc	66000	190000	190000	190000	190000	3460	552

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

 Exceeds a rSHS numeric value

 Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 7**  
**VOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSSS Vapor Intrusion screening values	nrSSS Vapor Intrusion screening values	TP 1-1.5	TP 3-8.0	TP 5-2.0
		0-2 ft	2-15 ft					1.5-2'	8.0-8.5'	2-2.5'
						Date		1/31/2013	1/31/2013	1/31/2013
<b>VOCs</b>										
Acetone	10,000	10,000	10,000	10,000	10,000	43	470	<0.0031	<0.170	<0.0026
Benzene	57	290	330	50	50	0.013	0.013	<0.00022	<0.012	<0.00018
Bromochloromethane	770	3,200	3,600	9	9	0.16	0.16	<0.00049	<0.027	<0.00041
Bromodichloromethane	12	60	69	8	8	0.27	0.27	<0.00019	<0.011	<0.00016
Bromoform	410	2,000	2,300	800	800	0.35	0.35	<0.00028	<0.015	<0.00023
Bromomethane	96	400	460	100	100	0.054	0.054	<0.00050	<0.027	<0.00042
2-Butanone (MEK)	10,000	10,000	10,000	10,000	10,000	7.6	110	<0.0044	<0.240	<0.0037
Carbon disulfide	10,000	10,000	10,000	150	620	13	53	<0.00021	<0.012	<0.00018
Carbon tetrachloride	74	370	430	5	5	0.026	0.026	<0.00024	<0.013	<0.00021
Chlorobenzene	960	4,000	4,600	1,000	1,000	0.61	0.61	<0.00020	<0.011	<0.00017
Chloroethane	6,400	10,000	10,000	2,500	10,000	0.54	2.6	<0.00042	<0.023	<0.00035
Chloroform	19	97	110	80	80	0.2	0.2	<0.00015	<0.0083	<0.00013
Chloromethane	250	1,200	1,400	300	300	0.038	0.038	<0.00034	<0.019	<0.00029
Cyclohexane	10,000	10,000	10,000	1,700	6,900	170	690	<0.00023	0.219	<0.00019
1,2-Dibromo-3-chloropropane	0.029	0.37	0.43	2.00	2.00	0.00092	0.00092	<0.0016	<0.089	<0.0014
Dibromochloromethane	17	82	95	800	800	0.25	0.25	<0.00030	<0.016	<0.00025
1,2-Dibromoethane	0.74	3.7	4.3	0.5	0.5	0.032	0.14	<0.00023	<0.013	<0.00020
1,2-Dichlorobenzene	3,800	10,000	10,000	6,000	6,000	5.9	5.9	<0.00035	<0.019	<0.00029
1,3-Dichlorobenzene	10,000	10,000	10,000	6,100	6,100	nsv	nsv	<0.00034	<0.019	<0.00029
1,4-Dichlorobenzene	40	200	230	1,000	1,000	1	1	<0.00032	<0.018	<0.00027
Dichlorodifluoromethane	1,900	8,000	9,100	10,000	10,000	10	10	<0.00042	<0.023	<0.00035
1,1-Dichloroethane	280	1,400	1,600	31	160	0.1	0.4	<0.00025	<0.014	<0.00021
1,2-Dichloroethane	17	86	98	5	5	0.01	0.01	<0.00025	<0.014	<0.00021
1,1-Dichloroethene	3,800	10,000	10,000	7	7	0.019	0.019	<0.00047	<0.026	<0.00040
cis-1,2-Dichloroethene	440	6,400	10,000	70	70	nsv	nsv	<0.00034	<0.018	<0.00028
trans-1,2-Dichloroethene	1,100	4,800	5,500	100	100	0.23	0.23	<0.00044	<0.024	<0.00037
1,2-Dichloropropane	45	220	260	5	5	0.011	0.011	<0.00028	<0.015	<0.00024
cis-1,3-Dichloropropene	110	560	640	73	340	0.013	0.061	<0.00026	<0.014	<0.00021
trans-1,3-Dichloropropene	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.00028	<0.016	<0.00024
1,4-Dioxane	58	290	330	6	32	0.023	0.59	<0.110	<6.0	<0.092
Ethylbenzene	180	890	1,000	7,000	7,000	4.6	4.6	<0.00048	<0.026	<0.00041
Freon 113	10,000	10,000	10,000	10,000	10,000	nsv	nsv	<0.00079	<0.043	<0.00066

**Table 7**  
**VOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSSS Vapor Intrusion screening values	nrSSS Vapor Intrusion screening values	TP 1-1.5	TP 3-8.0	TP 5-2.0
		0-2 ft	2-15 ft					1.5-2'	8.0-8.5'	2-2.5'
						Date		1/31/2013	1/31/2013	1/31/2013
2-Hexanone	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.0011	<0.062	<0.00096
Isopropylbenzene	7,700	10,000	10,000	10,000	10,000	60	250	<0.00014	<.0074	<0.00011
Methyl Acetate	10,000	10,000	10,000	4,200	10,000	nsv	nsv	<0.0048	<0.260	<0.0040
Methylcyclohexane	nnv	nnv	nnv	nnv	nnv	nsv	nsv	0.0019	0.479	<0.00026
Methyl Tert Butyl Ether	1,700	8,600	9,900	20	20	0.028	0.14	<0.00043	<0.024	<0.00036
4-Methyl-2-pentanone(MIBK)	10,000	10,000	10,000	10,000	10,000	5.1	21	<0.0014	<0.075	<0.0012
Methylene chloride	1,300	10,000	10,000	50	50	0.0076	0.15	<0.0023	<0.130	<0.0020
Styrene	10,000	10,000	10,000	2,400	2,400	2.4	7.9	<0.00017	<0.0092	<0.00014
1,1,2,2-Tetrachloroethane	7.7	38	44	8	43	0.0026	0.013	<0.00024	<0.013	<0.00020
Tetrachloroethene	770	3,200	3,600	5	5	0.043	0.043	<0.00032	<0.017	<0.00027
Toluene	10,000	10,000	10,000	10,000	10,000	4	4	<0.00019	<0.011	<0.00016
1,2,3-Trichlorobenzene	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.00030	<0.016	<0.00025
1,2,4-Trichlorobenzene	640	3,100	10,000	10,000	10,000	2.7	2.7	<0.00026	<0.014	<0.00021
1,1,1-Trichloroethane	10,000	10,000	10,000	200	200	0.72	0.74	<0.00019	<0.011	<0.00016
1,1,2-Trichloroethane	4	16	18	5	5	0.015	0.015	<0.00032	<0.017	<0.00027
Trichloroethene	38	160	180	5	5	0.017	0.017	<0.00032	<0.017	<0.00027
Trichlorofluoromethane	10,000	10,000	10,000	10,000	10,000	8.7	8.7	<0.00055	<0.030	<0.00046
Vinyl chloride	0.9	61	280	2	2	0.0027	0.0027	<0.00026	<0.014	<0.00022
Xylene (total)	1,900	8,000	9,100	10,000	10,000	99	99	<0.00026	<0.014	<0.00021

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

nsv - no vapor screenig value

SSS screening values are the SHS screening vaules and are reduces by a factor of 10.

  Exceeds a rSHS numeric value

  Exceeds a nrSHS numeric value

NUA- Non-use Aquifer



**Table 7**  
**VOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSSS Vapor Intrusion screening values	nrSSS Vapor Intrusion screening values	TP 8-4.0	TP 9-4.0	TP 11-4.5
		0-2 ft	2-15 ft					4-4.5'	4-4.5'	4.5-5'
						Date		2/1/2013	2/1/2013	2/1/2013
<b>VOCs</b>										
Acetone	10,000	10,000	10,000	10,000	10,000	43	470	0.0266	0.0573	<0.0021
Benzene	57	290	330	50	50	0.013	0.013	<0.0011	0.00023	<0.00015
Bromochloromethane	770	3,200	3,600	9	9	0.16	0.16	<0.00025	<0.00025	<0.00033
Bromodichloromethane	12	60	69	8	8	0.27	0.27	<0.000098	<0.00010	<0.00013
Bromoform	410	2,000	2,300	800	800	0.35	0.35	<0.00014	<0.00014	<0.00019
Bromomethane	96	400	460	100	100	0.054	0.054	<0.00026	<0.00026	<0.00034
2-Butanone (MEK)	10,000	10,000	10,000	10,000	10,000	7.6	110	<0.0022	0.0086	<0.0030
Carbon disulfide	10,000	10,000	10,000	150	620	13	53	0.00073	0.000029	<0.00014
Carbon tetrachloride	74	370	430	5	5	0.026	0.026	<0.00012	<0.00013	<0.00016
Chlorobenzene	960	4,000	4,600	1,000	1,000	0.61	0.61	<0.00010	<0.00010	<0.00013
Chloroethane	6,400	10,000	10,000	2,500	10,000	0.54	2.6	<0.00021	<0.00022	<0.00028
Chloroform	19	97	110	80	80	0.2	0.2	<0.000077	<0.000078	<0.00010
Chloromethane	250	1,200	1,400	300	300	0.038	0.038	<0.00017	<0.00018	<0.00023
Cyclohexane	10,000	10,000	10,000	1,700	6,900	170	690	<0.00012	<0.00012	<0.00015
1,2-Dibromo-3-chloropropane	0.029	0.37	0.43	2.00	2.00	0.00092	0.00092	<0.00083	<0.00084	<0.0011
Dibromochloromethane	17	82	95	800	800	0.25	0.25	<0.00015	<0.00016	<0.00020
1,2-Dibromoethane	0.74	3.7	4.3	0.5	0.5	0.032	0.14	<0.00012	<0.00012	<0.00016
1,2-Dichlorobenzene	3,800	10,000	10,000	6,000	6,000	5.9	5.9	0.0037	<0.00018	<0.00023
1,3-Dichlorobenzene	10,000	10,000	10,000	6,100	6,100	nsv	nsv	<0.00017	<0.00018	<0.00023
1,4-Dichlorobenzene	40	200	230	1,000	1,000	1	1	<0.00016	<0.00017	<0.00022
Dichlorodifluoromethane	1,900	8,000	9,100	10,000	10,000	10	10	<0.00021	<0.00022	<0.00028
1,1-Dichloroethane	280	1,400	1,600	31	160	0.1	0.4	0.0025	<0.00013	<0.00017
1,2-Dichloroethane	17	86	98	5	5	0.01	0.01	<0.00013	<0.00013	<0.00017
1,1-Dichloroethene	3,800	10,000	10,000	7	7	0.019	0.019	<0.00024	<0.00024	<0.00032
cis-1,2-Dichloroethene	440	6,400	10,000	70	70	nsv	nsv	0.0036	<0.00017	<0.00023
trans-1,2-Dichloroethene	1,100	4,800	5,500	100	100	0.23	0.23	<0.00022	<0.00023	<0.00029
1,2-Dichloropropane	45	220	260	5	5	0.011	0.011	<0.00014	<0.00015	<0.00019
cis-1,3-Dichloropropene	110	560	640	73	340	0.013	0.061	<0.00013	<0.00013	<0.00017
trans-1,3-Dichloropropene	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.00014	<0.00015	<0.00019
1,4-Dioxane	58	290	330	6	32	0.023	0.59	<0.056	<0.056	<0.074
Ethylbenzene	180	890	1,000	7,000	7,000	4.6	4.6	0.0014	<0.00025	<0.00033
Freon 113	10,000	10,000	10,000	10,000	10,000	nsv	nsv	<0.00040	<0.00041	<0.00053

**Table 7**  
**VOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSSS Vapor Intrusion screening values	nrSSS Vapor Intrusion screening values	TP 8-4.0	TP 9-4.0	TP 11-4.5
		0-2 ft	2-15 ft					4-4.5'	4-4.5'	4.5-5'
						Date		2/1/2013	2/1/2013	2/1/2013
2-Hexanone	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.00058	<0.00059	<0.00077
Isopropylbenzene	7,700	10,000	10,000	10,000	10,000	60	250	0.00024	<0.00007	<0.000092
Methyl Acetate	10,000	10,000	10,000	4,200	10,000	nsv	nsv	<0.0024	<0.0025	<0.0032
Methylcyclohexane	nnv	nnv	nnv	nnv	nnv	nsv	nsv	0.00024	<0.00016	<0.00021
Methyl Tert Butyl Ether	1,700	8,600	9,900	20	20	0.028	0.14	<0.00022	<0.00022	<0.00029
4-Methyl-2-pentanone(MIBK)	10,000	10,000	10,000	10,000	10,000	5.1	21	<0.00070	<0.00071	<0.00093
Methylene chloride	1,300	10,000	10,000	50	50	0.0076	0.15	<0.0012	<0.0012	<0.0016
Styrene	10,000	10,000	10,000	2,400	2,400	2.4	7.9	<0.000086	<0.000087	<0.00011
1,1,2,2-Tetrachloroethane	7.7	38	44	8	43	0.0026	0.013	<0.00012	<0.00013	<0.00016
Tetrachloroethene	770	3,200	3,600	5	5	0.043	0.043	0.00025	<0.00016	<0.00021
Toluene	10,000	10,000	10,000	10,000	10,000	4	4	<0.000098	<0.00010	<0.00013
1,2,3-Trichlorobenzene	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.00015	<0.00016	<0.00020
1,2,4-Trichlorobenzene	640	3,100	10,000	10,000	10,000	2.7	2.7	<0.00013	<0.00013	<0.00017
1,1,1-Trichloroethane	10,000	10,000	10,000	200	200	0.72	0.74	<0.000099	<0.00010	<0.00013
1,1,2-Trichloroethane	4	16	18	5	5	0.015	0.015	<0.00016	<0.00016	<0.00022
Trichloroethene	38	160	180	5	5	0.017	0.017	0.0017	<0.00016	<0.00022
Trichlorofluoromethane	10,000	10,000	10,000	10,000	10,000	8.7	8.7	<0.00028	<0.00028	<0.00037
Vinyl chloride	0.9	61	280	2	2	0.0027	0.0027	<0.00013	<0.00014	<0.00018
Xylene (total)	1,900	8,000	9,100	10,000	10,000	99	99	0.0009	<0.00013	<0.00017

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

nsv - no vapor screenig value

SSS screening values are the SHS screening vaules and are reduces by a factor of 10.

  Exceeds a rSHS numeric value

  Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 7**  
**VOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSSS Vapor Intrusion screening values	nrSSS Vapor Intrusion screening values	TP 12-8.0	TP 14-5.0	TP 16-7.5
		0-2 ft	2-15 ft					8-8.5'	5-5.5'	7.5-8'
						Sample Depth				
						Date		2/4/2013	2/4/2013	2/4/2013
<b>VOCs</b>										
Acetone	10,000	10,000	10,000	10,000	10,000	43	470	<0.240	0.047	0.827
Benzene	57	290	330	50	50	0.013	0.013	<0.017	0.005	<0.00015
Bromochloromethane	770	3,200	3,600	9	9	0.16	0.16	<0.038	<0.00013	<0.00033
Bromodichloromethane	12	60	69	8	8	0.27	0.27	<0.015	<0.00012	<0.00013
Bromoform	410	2,000	2,300	800	800	0.35	0.35	<0.022	<0.00017	<0.00019
Bromomethane	96	400	460	100	100	0.054	0.054	<0.039	<0.00030	<0.00034
2-Butanone (MEK)	10,000	10,000	10,000	10,000	10,000	7.6	110	<0.340	<0.002	<0.003
Carbon disulfide	10,000	10,000	10,000	150	620	13	53	<0.017	0.00059	0.00063
Carbon tetrachloride	74	370	430	5	5	0.026	0.026	<0.019	<0.00015	<0.00016
Chlorobenzene	960	4,000	4,600	1,000	1,000	0.61	0.61	<0.015	<0.00012	<0.00013
Chloroethane	6,400	10,000	10,000	2,500	10,000	0.54	2.6	<0.032	<0.00025	<0.00028
Chloroform	19	97	110	80	80	0.2	0.2	<0.012	<0.000092	<0.00010
Chloromethane	250	1,200	1,400	300	300	0.038	0.038	<0.027	<0.00021	<0.00023
Cyclohexane	10,000	10,000	10,000	1,700	6,900	170	690	<0.018	<0.00014	<0.00015
1,2-Dibromo-3-chloropropane	0.029	0.37	0.43	2.00	2.00	0.00092	0.00092	<0.130	<0.00099	<0.0011
Dibromochloromethane	17	82	95	800	800	0.25	0.25	<0.023	<0.00018	<0.00020
1,2-Dibromoethane	0.74	3.7	4.3	0.5	0.5	0.032	0.14	<0.018	<0.00014	<0.00016
1,2-Dichlorobenzene	3,800	10,000	10,000	6,000	6,000	5.9	5.9	<0.027	<0.00021	<0.00023
1,3-Dichlorobenzene	10,000	10,000	10,000	6,100	6,100	nsv	nsv	<0.027	<0.00021	<0.00023
1,4-Dichlorobenzene	40	200	230	1,000	1,000	1	1	<0.025	<0.00020	<0.00022
Dichlorodifluoromethane	1,900	8,000	9,100	10,000	10,000	10	10	<0.033	<0.00025	<0.00028
1,1-Dichloroethane	280	1,400	1,600	31	160	0.1	0.4	<0.020	<0.00015	<0.00017
1,2-Dichloroethane	17	86	98	5	5	0.01	0.01	<0.019	<0.00015	<0.00017
1,1-Dichloroethene	3,800	10,000	10,000	7	7	0.019	0.019	<0.037	<0.00029	<0.00032
cis-1,2-Dichloroethene	440	6,400	10,000	70	70	nsv	nsv	<0.026	<0.00020	<0.00023
trans-1,2-Dichloroethene	1,100	4,800	5,500	100	100	0.23	0.23	<0.034	<0.00027	<0.00029
1,2-Dichloropropane	45	220	260	5	5	0.011	0.011	<0.022	<0.00017	<0.00019
cis-1,3-Dichloropropene	110	560	640	73	340	0.013	0.061	<0.020	<0.00016	<0.00017
trans-1,3-Dichloropropene	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.022	<0.00017	<0.00019
1,4-Dioxane	58	290	330	6	32	0.023	0.59	<8.500	<0.066	<0.074
Ethylbenzene	180	890	1,000	7,000	7,000	4.6	4.6	0.0667	<0.00029	<0.00033
Freon 113	10,000	10,000	10,000	10,000	10,000	nsv	nsv	<0.062	<0.00048	<0.00053

**Table 7**  
**VOCs**  
**2013 Soil Quality Data**  
**Former Cramp Shipyard Site**  
**Parcel B & C**

Chemical Name	rSHS Soil Direct Contact 0-15 ft	nrSHS Soil Direct Contact		NUA rSHS Soil Soil to Groundwater	NUA nrSHS Soil Soil to Groundwater	rSSS Vapor Intrusion screening values	nrSSS Vapor Intrusion screening values	TP 12-8.0	TP 14-5.0	TP 16-7.5
		0-2 ft	2-15 ft					8-8.5'	5-5.5'	7.5-8'
						Date		2/4/2013	2/4/2013	2/4/2013
2-Hexanone	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.089	<0.00069	<0.00077
Isopropylbenzene	7,700	10,000	10,000	10,000	10,000	60	250	0.042	<0.000083	<0.000092
Methyl Acetate	10,000	10,000	10,000	4,200	10,000	nsv	nsv	<0.370	<0.0029	<0.0032
Methylcyclohexane	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.024	<0.00019	<0.00021
Methyl Tert Butyl Ether	1,700	8,600	9,900	20	20	0.028	0.14	<0.034	<0.00026	<0.00029
4-Methyl-2-pentanone(MIBK)	10,000	10,000	10,000	10,000	10,000	5.1	21	<0.110	<0.00084	<0.00093
Methylene chloride	1,300	10,000	10,000	50	50	0.0076	0.15	<0.180	<0.0014	<0.0016
Styrene	10,000	10,000	10,000	2,400	2,400	2.4	7.9	<0.013	<0.00010	<0.00011
1,1,2,2-Tetrachloroethane	7.7	38	44	8	43	0.0026	0.013	<0.019	<0.00015	<0.00016
Tetrachloroethene	770	3,200	3,600	5	5	0.043	0.043	<0.025	<0.00019	<0.00021
Toluene	10,000	10,000	10,000	10,000	10,000	4	4	0.051	0.00059	<0.00013
1,2,3-Trichlorobenzene	nnv	nnv	nnv	nnv	nnv	nsv	nsv	<0.023	<0.00018	<0.00020
1,2,4-Trichlorobenzene	640	3,100	10,000	10,000	10,000	2.7	2.7	<0.020	<0.00016	<0.00017
1,1,1-Trichloroethane	10,000	10,000	10,000	200	200	0.72	0.74	<0.015	<0.00012	<0.00013
1,1,2-Trichloroethane	4	16	18	5	5	0.015	0.015	<0.025	<0.00019	<0.00022
Trichloroethene	38	160	180	5	5	0.017	0.017	<0.025	<0.00019	<0.00022
Trichlorofluoromethane	10,000	10,000	10,000	10,000	10,000	8.7	8.7	<0.043	<0.00033	<0.00037
Vinyl chloride	0.9	61	280	2	2	0.0027	0.0027	<0.021	<0.00016	<0.00018
Xylene (total)	1,900	8,000	9,100	10,000	10,000	99	99	0.089	<0.00016	<0.00017

All results in mg/kg

ND or "<"- constituent was not detected above the reporting limit

nnv - no SHS numeric value

nsv - no vapor screenig value

SSS screening values are the SHS screening vaules and are reduces by a factor of 10.

  Exceeds a rSHS numeric value

  Exceeds a nrSHS numeric value

NUA- Non-use Aquifer

**Table 8**  
**PCB Area 1**  
**Soil Quality Data**  
**Former Cramp Shipyard Site**

Chemical Name		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
rSHS Soil MSC Direct Contact	0-15 ft	9	9	9	9	9.3	4.4	9
nrSHS Soil MSC Direct Contact	0-2 ft	46	46	46	46	46	46	46
	2-15 ft	10,000	10,000	10,000	10,000	10,000	10,000	190,000
NUA rSHS Soil MSC Soil to GW		10	0.18	0.14	4	18	75	170
NUA nrSHS Soil MSC Soil to GW		47	0.83	0.7	20	81	340	770
rSHS Vapor Intrusion screening values		nsv	0.02	0.01	nsv	nsv	nsv	nsv
nrSHS Vapor Intrusion screening values		nsv	0.08	0.1	nsv	nsv	nsv	nsv
Test Pit ID	Depth							
TP-5 (1)	0.5-1'	<5	<5	<5	<5	<5	13	<5
TP-5 (7.5)	7-7.5'	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	<0.1
TP-4 (4)	3.5-4'	<100	<100	<100	<100	<100	<100	260
TP-14 (6)	5.5-6'	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041
TP-14 (9)	8.5-9'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TP-100 (3)	2.5-3'	<0.04	<0.05	<0.062	<0.041	<0.029	1	0.64
TP-100 (6)	5.5-6'	<0.008	<0.01	<0.012	<0.0082	<0.0058	<0.0059	0.052
TP-101 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	<0.058	1.8	1.8
TP-101 (4)	3.5-4'	<0.8	<1	<1.2	<0.82	<0.58	33	22
TP-101 (6)	5.5-6'	<0.8	<1	<1.2	<0.82	<0.58	13	15
TP-102 (2)	1.5-2'	<10	<13	<16	<10	<7.4	260	120
TP-102 (5)	4.5-5'	<0.8	<1	<1.2	<0.82	<0.58	32	13
TP-103 (2)	1.5-2'	<0.4	<0.5	<0.62	<0.41	<0.29	6.5	3.6
TP-103 (6)	5.5-6'	<0.16	<0.2	<0.25	<0.16	<0.12	5.1	4
TP-104 (1)	0.5-1'	<1.6	<2	<2.5	<1.6	<1.2	65	34
TP-104 (3)	2.5-3'	<0.4	<0.5	<0.62	<0.41	<0.29	21	8.4
TP-104 (5)	4.5-5'	<0.08	<0.1	<0.12	<0.082	<0.058	5.9	2.1
TP-105 (2)	1.5-2'	<80	<100	<120	<82	<58	870	1,500
TP-105 (6)	5.5-6'	<0.8	<1	<1.2	<0.82	<0.58	9.5	11
TP-106 (1)	0.5-1'	<80	<100	<120	<82	<58	700	350
TP-106 (3)	2.5-3'	<0.04	<0.05	<0.062	<0.041	<0.029	0.92	0.83
TP-106 (5)	4.5-5'	<0.08	<0.1	<0.12	<0.082	<0.058	1.6	0.73
TP-107 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	<0.058	1.7	0.85
TP-107 (5)	4.5-5'	<0.11	<0.14	<0.17	<0.11	<0.078	5.8	1.7
TP-108 (1)	0.5-1'	<0.4	<0.5	<0.62	<0.41	<0.29	14	7
TP-108 (6)	5.5-6'	<0.52	<0.66	<0.81	<0.54	<0.38	13	6.5
TP-108 (12)	11.5-12'	<0.09	<0.11	<0.14	<0.092	<0.065	0.37	0.18
TP-109 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	<0.058	2.5	1.4
TP-109 (6)	5.5-6'	<0.08	<0.1	<0.12	<0.082	<0.058	0.3	0.26
TP-110 (1)	0.5-1'	<2.5	<2.5	<2.5	<2.5	<2.5	8.9	4.5
TP-110 (3)	2.5-3'	<0.5	<0.5	<0.5	<0.5	<0.5	1	1.5
TP-110 (6)	5.5-6'	<25	<25	<25	<25	<25	49	55
TP-130 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	<0.058	1.9	0.89
TP-130 (4)	3.5-4'	<0.04	<0.05	<0.062	<0.041	<0.029	<0.029	<0.034
TP-130 (8)	7.5-8'	<0.053	<0.066	<0.081	<0.054	<0.038	<0.038	<0.045
TP-131 (2)	1.5-2'	<0.008	<0.01	<0.012	<0.0082	<0.0058	<0.0059	<0.0069
TP-131 (5)	4.5-5'	<0.016	<0.02	<0.025	<0.016	<0.012	<0.012	<0.014
TP-131 (10)	9.5-10'	<0.011	<0.014	<0.017	<0.011	<0.0081	<0.0081	<0.0095
TP-132 (1)	0.5-1'	<0.32	<0.4	<0.5	<0.33	<0.23	10	5.6
TP-132 (3)	2.5-3'	<0.01	<0.013	<0.016	<0.01	<0.0073	<0.0074	<0.0087

**Table 8**  
**PCB Area 1**  
**Soil Quality Data**  
**Former Cramp Shipyard Site**

Chemical Name		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
rSHS Soil MSC Direct Contact	0-15 ft	9	9	9	9	9.3	4.4	9
nrSHS Soil MSC Direct Contact	0-2 ft	46	46	46	46	46	46	46
	2-15 ft	10,000	10,000	10,000	10,000	10,000	10,000	190,000
NUA rSHS Soil MSC Soil to GW		10	0.18	0.14	4	18	75	170
NUA nrSHS Soil MSC Soil to GW		47	0.83	0.7	20	81	340	770
rSHS Vapor Intrusion screening values		nsv	0.02	0.01	nsv	nsv	nsv	nsv
nrSHS Vapor Intrusion screening values		nsv	0.08	0.1	nsv	nsv	nsv	nsv
Test Pit ID	Depth							
TP-132 (8)	7.5-8'	<0.01	<0.013	<0.016	<0.01	<0.0073	<0.0074	<0.0087
TP-133 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	0.72	2.3	2.1
TP-133 (6)	5.5-6'	<0.053	<0.066	<0.081	<0.054	<0.038	<0.038	<0.045
TP-133 (10)	9.5-10'	<0.011	<0.014	<0.017	<0.011	<0.0081	0.27	0.086
TP-134 (2)	1.5-2'	<0.008	<0.01	<0.012	<0.0082	<0.0058	<0.0059	<0.0069
TP-134 (4)	3.5-4'	<0.0063	<0.0078	<0.0097	<0.0064	<0.0045	<0.0046	<0.0054
TP-134 (7)	6.5-7'	<0.01	<0.013	<0.016	<0.011	<0.0075	<0.0075	<0.0088
TP-135 (2)	1.5-2'	<0.2	<0.25	<0.31	<0.21	5.4	12	17
TP-135 (5)	4.5-5'	<1.6	<2	<2.5	<1.6	<1.2	24	19
TP-135 (9)	8.5-9'	<0.0064	<0.008	<0.0099	<0.0066	0.23	0.28	0.14
TP-136 (1)	0.5-1'	<0.008	<0.01	<0.012	<0.0082	<0.0058	0.048	<0.0069
TP-136 (5)	4.5-5'	<0.029	<0.037	<0.045	<0.03	1.1	0.98	0.54
TP-136 (8)	7.5-8'	<11	<14	<17	<11	<8.1	<8.2	150
TP-136 (BM)(4)	3.5-4'	<1.3	<1.6	<2	<1.3	19	<0.95	34
TP-137 (2)	1.5-2'	<0.8	<1	<1.2	<0.82	<0.58	16	7.2
TP-137 (5)	4.5-5'	<4	<5	<6.2	<4.1	<2.9	100	55
TP-137 (8)	7.5-8'	<0.52	<0.65	<0.81	<0.54	10	11	5.4
TP-138 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	<0.058	2.3	1.1
TP-138 (6)	5.5-6'	<5.3	<6.6	<8.1	<5.4	<3.8	<3.8	44
TP-138 (9)	8.5-9'	<0.8	<1	<1.2	<0.82	13	22	<0.69
TP-139 (2)	1.5-2'	<4	<5	<6.2	<4.1	<2.9	120	<3.4
TP-139 (5)	4.5-5'	<0.008	<0.01	<0.012	<0.0082	<0.0058	0.12	0.22
TP-139 (9)	8.5-9'	<0.051	<0.063	<0.078	<0.052	<0.037	0.36	<0.043
TP-140 (1)	0.5-1'	<3.3	<4.2	<5.1	<3.4	41	53	21
TP-140 (4)	3.5-4'	<1	<1.3	<1.6	<1	19	13	5.5
TP-140 (7)	6.5-7'	<0.052	<0.065	<0.08	<0.053	0.54	0.5	<0.044
TP-141 (1)	0.5-1'	<0.008	<0.01	<0.012	<0.0082	<0.0058	<0.0059	<0.0069
TP-141 (4)	3.5-4'	<0.04	<0.05	<0.062	<0.041	<0.029	0.39	<0.034
TP-142 (1)	0.5-1'	<0.008	<0.01	<0.012	<0.0082	<0.0058	<0.0059	<0.0069
TP-142 (4)	3.5-4'	<0.008	<0.01	<0.012	<0.0082	<0.0058	<0.0059	<0.0069
TP-143 (2)	1.5-2'	<0.086	<0.11	<0.13	<0.088	<0.062	2.6	<0.073
TP-143 (5)	4.5-5'	<0.08	<0.1	<0.12	<0.082	1	1.3	0.53
TP-144 (1)	0.5-1'	<0.008	<0.01	<0.012	<0.0082	<0.0058	0.23	0.16
TP-144 (4)	3.5-4'	<0.04	<0.05	<0.062	<0.041	<0.029	<0.029	1.3
TP-145 (1)	0.5-1'	<0.16	<0.2	<0.25	<0.16	<0.12	<0.12	2.2

**Table 8**  
**PCB Area 1**  
**Soil Quality Data**  
**Former Cramp Shipyard Site**

Chemical Name		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
rSHS Soil MSC Direct Contact	0-15 ft	9	9	9	9	9.3	4.4	9
nrSHS Soil MSC Direct Contact	0-2 ft	46	46	46	46	46	46	46
	2-15 ft	10,000	10,000	10,000	10,000	10,000	10,000	190,000
NUA rSHS Soil MSC Soil to GW		10	0.18	0.14	4	18	75	170
NUA nrSHS Soil MSC Soil to GW		47	0.83	0.7	20	81	340	770
rSHS Vapor Intrusion screening values		nsv	0.02	0.01	nsv	nsv	nsv	nsv
nrSHS Vapor Intrusion screening values		nsv	0.08	0.1	nsv	nsv	nsv	nsv
Test Pit ID	Depth							
TP-145 (3)	2.5-3'	<0.04	<0.05	<0.062	<0.041	0.25	0.56	<0.034
TP-146 (2)	1.5-2'	<0.08	<0.1	<0.12	<0.082	<0.058	0.48	<0.069
TP-146 (4)	3.5-4'	<0.04	<0.05	<0.062	<0.041	<0.029	0.21	<0.034
TP-200 (1)	0.5-1'	<2.5	<2.5	<2.5	<2.5	<2.5	7.1	3.7
TP-200 (4)	3.5-4'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TP-201 (2)	1.5-2'	<0.25	<0.25	<0.25	<0.25	0.55	1.1	0.73
TP-201 (5)	4.5-5'	<1	<1	<1	<1	<1	4.9	4.7
TP-202 (5)	4.5-5'	<3.2	<3.2	<3.2	<3.2	<3.2	9.9	6
TP-202 (7)	6.5-7'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TP-203 (2)	1.5-2'	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	<0.05
TP-203 (5)	4.5-5'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TP-204 (2)	1.5-2'	<2	<2	<2	<2	<2	11	6.4
TP-204 (5)	4.5-5'	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	<0.5
TP-205 (2)	1.5-2'	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.065
TP-205 (5)	4.5-5'	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037
TP-206 (2)	1.5-2'	<0.1	<0.1	<0.1	<0.1	<0.1	0.52	0.32
TP-206 (5)	4.5-5'	<0.05	<0.05	<0.05	<0.05	<0.05	0.098	<0.05
TP-300(4)	3.5-4'	<1	<1	<1	<1	<1	<1	6.4
TP-307(4)	3.5-4'	<120	<120	<120	<120	<120	<120	2200
TP-307 (6)	5.5-6'	<3.2	<3.2	<3.2	<3.2	<3.2	4.9	<3.2
TP-308(2)	1.5-2'	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1
TP-309(3)	2.5-3'	<1	<1	<1	<1	<1	8.9	6.7
TP-310(4)	3.5-4'	<2.5	<2.5	<2.5	<2.5	<2.5	25	22
TP-311(3)	2.5-3'	<0.25	<0.25	<0.25	<0.25	<0.25	1	0.91
TP-312(6)	5.5-6'	<1.4	<1.4	<1.4	<1.4	<1.4	17	<1.4
TP-313(6)	5.5-6'	<5	<5	<5	<5	<5	<5	64
TP-314(10)	9.5-10'	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	2.8
TP-315(6)	5.5-6'	<2.5	<2.5	<2.5	<2.5	<2.5	24	<2.5
TP-316(8)	7.5-8'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TP-317(4)	3.5-4'	<2.5	<2.5	<2.5	<2.5	<2.5	26	20
TP-318(3)	2.5-3'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11
TP-319(3)	2.5-3'	<1.6	<1.6	<1.6	<1.6	<1.6	26	13
TP-320 (4)	3.5-4'	<120	<120	<120	<120	<120	<120	340
TP-321 (6)	5.5-6'	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	19
TP-400 (2)	1.5-2'	<5.0	<5.0	<5.0	<5.0	8.3	<5.0	7.9
TP-400 (4)	3.5-4'	<2.5	<2.5	<2.5	<2.5	<2.5	5.7	4.5
TP-401 (2)	1.5-2'	<0.063	<0.063	<0.063	<0.063	<0.063	0.087	<0.063

**Table 8**  
**PCB Area 1**  
**Soil Quality Data**  
**Former Cramp Shipyard Site**

Chemical Name		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
rSHS Soil MSC Direct Contact	0-15 ft	9	9	9	9	9.3	4.4	9
nrSHS Soil MSC Direct Contact	0-2 ft	46	46	46	46	46	46	46
	2-15 ft	10,000	10,000	10,000	10,000	10,000	10,000	190,000
NUA rSHS Soil MSC Soil to GW		10	0.18	0.14	4	18	75	170
NUA nrSHS Soil MSC Soil to GW		47	0.83	0.7	20	81	340	770
rSHS Vapor Intrusion screening values		nsv	0.02	0.01	nsv	nsv	nsv	nsv
nrSHS Vapor Intrusion screening values		nsv	0.08	0.1	nsv	nsv	nsv	nsv
Test Pit ID	Depth							
TP-402 (2)	1.5-2'	<63	<63	<63	<63	<63	<b>110</b>	<63
TP-402 (4)	3.5-4'	<65	<65	<65	<65	<65	<65	<b>720</b>
TP-403 (1)	0.5-1'	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.05
TP-403 (4)	3.5-4'	<25	<25	<25	<25	<25	<b>49</b>	<b>28</b>
TP-404 (2)	1.5-2'	<66	<66	<66	<66	<66	<b>160</b>	<b>91</b>

All results in mg/kg  
 ND or "<"- constituent was not detected above the reporting limit  
 nsv - no SHS numeric value  
 Exceeds a rSHS numeric value  
 Exceeds a nrSHS numeric value  
 NUA- Non-use Aquifer



## **Appendix A – Laboratory Reports**

**2003**

01 August 2003

Paul Ledeber  
RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia, PA 19406  
RE: Cramps Shipyard

Enclosed are the results of analyses for samples received by the laboratory on 06/19/03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

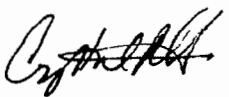
Andrea Speck  
Project Manager

RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-01-01 Project Manager: Paul Ledebler	Reported: 08/01/03 09:36
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-1 S-1	K306446-01	Soil	06/17/03 09:30	06/19/03 10:55
TP-1 S-2	K306446-02	Soil	06/17/03 09:32	06/19/03 10:55
TP-2 S-3	K306446-03	Soil	06/17/03 10:02	06/19/03 10:55
TP-3 S-4	K306446-04	Soil	06/17/03 11:08	06/19/03 10:55
TP-3 S-5	K306446-05	Soil	06/17/03 11:14	06/19/03 10:55
TP-4 S-7	K306446-06	Soil	06/17/03 12:54	06/19/03 10:55
TP-5 S-8	K306446-07	Soil	06/17/03 13:35	06/19/03 10:55
TP-5 S-9	K306446-08	Soil	06/17/03 13:37	06/19/03 10:55
TP-6 S-10	K306446-09	Soil	06/17/03 14:10	06/19/03 10:55

GLA Laboratories



Andrea Speck, Project Manager

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GLA Laboratories 1008 W. Ninth Avenue King of Prussia, Pennsylvania 19406 610.337.9992 Fax 610.337.9992

RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-6 S-11	K306446-10	Soil	06/17/03 14:14	06/19/03 10:55
TP-7 S-12	K306446-11	Soil	06/17/03 14:45	06/19/03 10:55
TP-7 S-13	K306446-12	Soil	06/17/03 14:46	06/19/03 10:55
TP-8 S-14	K306446-13	Soil	06/18/03 10:23	06/19/03 10:55
TP-8 S-15	K306446-14	Soil	06/18/03 10:25	06/19/03 10:55
TP-9 S-17	K306446-15	Soil	06/18/03 11:18	06/19/03 10:55
TP-10 S-18	K306446-16	Soil	06/18/03 12:11	06/19/03 10:55
TP-10 S-19	K306446-17	Soil	06/18/03 12:14	06/19/03 10:55
TP-11 S-20	K306446-18	Soil	06/18/03 13:41	06/19/03 10:55

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Andrea Speck, Project Manager

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RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebur

Reported:  
08/01/03 09:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-11 S-21	K306446-19	Soil	06/18/03 13:43	06/19/03 10:55
TP-12 S-22	K306446-20	Soil	06/18/03 14:45	06/19/03 10:55
TP-13 S-23	K306446-21	Soil	06/18/03 14:57	06/19/03 10:55
TP-13 S-24	K306446-22	Soil	06/18/03 14:59	06/19/03 10:55
TP-14 S-25	K306446-23	Soil	06/18/03 15:20	06/19/03 10:55
TP-14 S-26	K306446-24	Soil	06/18/03 15:22	06/19/03 10:55

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Page 3 of 15

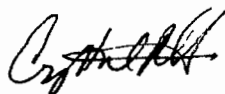
RT ENVIRONMENTAL  
 215 W. Church Rd.  
 King of Prussia PA, 19406

 Project: Cramps Shipyard  
 Project Number: 70431-01-01  
 Project Manager: Paul Ledebler

**Reported:**  
 08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 S-1 (K306446-01) Soil Sampled: 06/17/03 09:30 Received: 06/19/03 10:55</b>									
Mercury	0.127	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	33	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	5.1	2.5	"	"	"	"	"	"	
Lead	27	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-1 S-2 (K306446-02) Soil Sampled: 06/17/03 09:32 Received: 06/19/03 10:55</b>									
Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	21	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	11	2.5	"	"	"	"	"	"	
Lead	12	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-2 S-3 (K306446-03) Soil Sampled: 06/17/03 10:02 Received: 06/19/03 10:55</b>									
Mercury	1.53	0.500	mg/kg dry	5	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	ND	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	76	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	20	2.5	"	"	"	"	"	"	
Lead	230	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	





RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TP-3 S-4 (K306446-04) Soil Sampled: 06/17/03 11:08 Received: 06/19/03 10:55**

Mercury	0.147	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	150	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	34	2.5	"	"	"	"	"	"	
Lead	32	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

**TP-3 S-5 (K306446-05) Soil Sampled: 06/17/03 11:14 Received: 06/19/03 10:55**

Mercury	0.721	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	8.3	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	68	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	14	2.5	"	"	"	"	"	"	
Lead	180	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

**TP-4 S-7 (K306446-06) Soil Sampled: 06/17/03 12:54 Received: 06/19/03 10:55**

Mercury	0.208	0.129	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	23	10	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	82	0.65	"	"	"	"	"	"	
Cadmium	ND	1.3	"	"	"	"	"	"	
Chromium	51	3.2	"	"	"	"	"	"	
Lead	190	6.5	"	"	"	"	"	"	
Selenium	ND	16	"	"	"	"	"	"	
Silver	ND	3.2	"	"	"	"	"	"	



RT ENVIRONMENTAL  
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 King of Prussia PA, 19406

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 Project Number: 70431-01-01  
 Project Manager: Paul Ledebler

**Reported:**  
 08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TP-5 S-8 (K306446-07) Soil Sampled: 06/17/03 13:35 Received: 06/19/03 10:55**

Mercury	16.9	4.00	mg/kg dry	40	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	30	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	250	0.50	"	"	"	"	"	"	
Cadmium	7.0	1.0	"	"	"	"	"	"	
Chromium	320	2.5	"	"	"	"	"	"	
Lead	1400	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

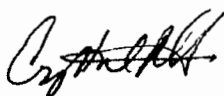
**TP-5 S-9 (K306446-08) Soil Sampled: 06/17/03 13:37 Received: 06/19/03 10:55**

Mercury	0.197	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	73	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	22	2.5	"	"	"	"	"	"	
Lead	61	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

**TP-6 S-10 (K306446-09) Soil Sampled: 06/17/03 14:10 Received: 06/19/03 10:55**

Mercury	19.8	5.18	mg/kg dry	40	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	66	10	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	1000	0.65	"	"	"	"	"	"	
Cadmium	31	1.3	"	"	"	"	"	"	
Chromium	290	3.2	"	"	"	"	"	"	
Lead	11000	6.5	"	"	"	"	"	"	
Selenium	ND	16	"	"	"	"	"	"	
Silver	ND	3.2	"	"	"	"	"	"	

GLA Laboratories



Andrea Speck, Project Manager

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RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**

**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TP-6 S-11 (K306446-10) Soil Sampled: 06/17/03 14:14 Received: 06/19/03 10:55**

Mercury	0.730	0.200	mg/kg dry	2	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	ND	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	390	0.50	"	"	"	"	"	"	
Cadmium	2.4	1.0	"	"	"	"	"	"	
Chromium	26	2.5	"	"	"	"	"	"	
Lead	340	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

**TP-7 S-12 (K306446-11) Soil Sampled: 06/17/03 14:45 Received: 06/19/03 10:55**

Mercury	0.523	0.200	mg/kg dry	2	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	9.7	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	150	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	20	2.5	"	"	"	"	"	"	
Lead	220	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

**TP-7 S-13 (K306446-12) Soil Sampled: 06/17/03 14:46 Received: 06/19/03 10:55**

Mercury	0.156	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	13	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	160	0.50	"	"	"	"	"	"	
Cadmium	1.2	1.0	"	"	"	"	"	"	
Chromium	38	2.5	"	"	"	"	"	"	
Lead	320	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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Andrea Speck, Project Manager



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215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledeber

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**

**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-8 S-14 (K306446-13) Soil Sampled: 06/18/03 10:23 Received: 06/19/03 10:55</b>									
Mercury	0.254	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	79	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	16	2.5	"	"	"	"	"	"	
Lead	410	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-8 S-15 (K306446-14) Soil Sampled: 06/18/03 10:25 Received: 06/19/03 10:55</b>									
Mercury	0.635	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	11	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	150	0.50	"	"	"	"	"	"	
Cadmium	5.1	1.0	"	"	"	"	"	"	
Chromium	28	2.5	"	"	"	"	"	"	
Lead	800	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-9 S-17 (K306446-15) Soil Sampled: 06/18/03 11:18 Received: 06/19/03 10:55</b>									
Mercury	0.607	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	17	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	150	0.50	"	"	"	"	"	"	
Cadmium	1.4	1.0	"	"	"	"	"	"	
Chromium	25	2.5	"	"	"	"	"	"	
Lead	570	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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Andrea Speck, Project Manager



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Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-10 S-18 (K306446-16) Soil Sampled: 06/18/03 12:11 Received: 06/19/03 10:55</b>									
Mercury	0.648	0.200	mg/kg dry	2	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	13	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	67	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	28	2.5	"	"	"	"	"	"	
Lead	150	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-10 S-19 (K306446-17) Soil Sampled: 06/18/03 12:14 Received: 06/19/03 10:55</b>									
Mercury	0.796	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	32	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	290	0.50	"	"	"	"	"	"	
Cadmium	2.2	1.0	"	"	"	"	"	"	
Chromium	64	2.5	"	"	"	"	"	"	
Lead	1900	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-11 S-20 (K306446-18) Soil Sampled: 06/18/03 13:41 Received: 06/19/03 10:55</b>									
Mercury	0.131	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	84	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	17	2.5	"	"	"	"	"	"	
Lead	85	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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RT ENVIRONMENTAL  
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Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**

**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-11 S-21 (K306446-19) Soil Sampled: 06/18/03 13:43 Received: 06/19/03 10:55</b>									
Mercury	0.404	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	8.0	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	82	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	14	2.5	"	"	"	"	"	"	
Lead	160	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-12 S-22 (K306446-20) Soil Sampled: 06/18/03 14:45 Received: 06/19/03 10:55</b>									
Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	82	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	9.4	2.5	"	"	"	"	"	"	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-13 S-23 (K306446-21) Soil Sampled: 06/18/03 14:57 Received: 06/19/03 10:55</b>									
Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	68	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	19	2.5	"	"	"	"	"	"	
Lead	17	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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Andrea Speck, Project Manager

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GLA Laboratories 1008 W. Ninth Avenue King of Prussia, Pennsylvania 19406 610.337.9992 Fax 610.337.9992

RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-13 S-24 (K306446-22) Soil Sampled: 06/18/03 14:59 Received: 06/19/03 10:55</b>									
Mercury	0.103	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	78	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	19	2.5	"	"	"	"	"	"	
Lead	16	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-14 S-25 (K306446-23) Soil Sampled: 06/18/03 15:20 Received: 06/19/03 10:55</b>									
Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	130	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	10	2.5	"	"	"	"	"	"	
Lead	7.0	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-14 S-26 (K306446-24) Soil Sampled: 06/18/03 15:22 Received: 06/19/03 10:55</b>									
Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	47	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	18	2.5	"	"	"	"	"	"	
Lead	6.5	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

GLA Laboratories

Andrea Speck, Project Manager

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GLA Laboratories 1008 W. Ninth Avenue King of Prussia, Pennsylvania 19406 610.337.9992 Fax 610.337.9992

RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebur

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062307 - EPA 7471A**

<b>Blank (3062307-BLK1)</b>		Prepared: 06/23/03 Analyzed: 06/24/03								
Mercury	ND	0.100	mg/kg wet							
<b>Blank (3062307-BLK2)</b>		Prepared: 06/23/03 Analyzed: 06/24/03								
Mercury	ND	0.100	mg/kg wet							
<b>LCS (3062307-BS1)</b>		Prepared: 06/23/03 Analyzed: 06/24/03								
Mercury	0.134	0.100	mg/kg wet	0.133		101	85-115			
<b>LCS (3062307-BS2)</b>		Prepared: 06/23/03 Analyzed: 06/24/03								
Mercury	0.138	0.100	mg/kg wet	0.133		104	85-115			
<b>Duplicate (3062307-DUP1)</b>		<b>Source: K306441-01</b>		Prepared: 06/23/03 Analyzed: 06/24/03						
Mercury	0.0431	0.100	mg/kg dry		0.0482			11.2	20	
<b>Duplicate (3062307-DUP2)</b>		<b>Source: K306471-01</b>		Prepared: 06/23/03 Analyzed: 06/24/03						
Mercury	ND	0.100	mg/kg dry		0.0228				20	
<b>Matrix Spike (3062307-MS1)</b>		<b>Source: K306441-01</b>		Prepared: 06/23/03 Analyzed: 06/24/03						
Mercury	0.223	0.100	mg/kg dry	0.160	0.0482	109	75-125			
<b>Matrix Spike (3062307-MS2)</b>		<b>Source: K306471-01</b>		Prepared: 06/23/03 Analyzed: 06/24/03						
Mercury	0.201	0.100	mg/kg dry	0.161	0.0228	111	75-125			
<b>Matrix Spike Dup (3062307-MSD1)</b>		<b>Source: K306441-01</b>		Prepared: 06/23/03 Analyzed: 06/24/03						
Mercury	0.219	0.100	mg/kg dry	0.160	0.0482	107	75-125	1.81	20	
<b>Matrix Spike Dup (3062307-MSD2)</b>		<b>Source: K306471-01</b>		Prepared: 06/23/03 Analyzed: 06/24/03						
Mercury	0.165	0.100	mg/kg dry	0.161	0.0228	88.3	75-125	19.7	20	

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Andrea Speck, Project Manager



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RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebler

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062401 - EPA 3050B**

**Blank (3062401-BLK1)**

Prepared: 06/24/03 Analyzed: 06/25/03

Arsenic	ND	8.0	mg/kg wet							
Barium	ND	0.50	"							
Cadmium	ND	1.0	"							
Chromium	ND	2.5	"							
Lead	ND	5.0	"							
Selenium	ND	12	"							
Silver	ND	2.5	"							

**Blank (3062401-BLK2)**

Prepared: 06/24/03 Analyzed: 06/25/03

Arsenic	ND	8.0	mg/kg wet							
Barium	ND	0.50	"							
Cadmium	ND	1.0	"							
Chromium	ND	2.5	"							
Lead	ND	5.0	"							
Selenium	ND	12	"							
Silver	ND	2.5	"							

**LCS (3062401-BS1)**

Prepared: 06/24/03 Analyzed: 06/25/03

Arsenic	48.3	8.0	mg/kg wet	50.0		96.6	85-115			
Barium	50.0	0.50	"	50.0		100	85-115			
Cadmium	46.3	1.0	"	50.0		92.6	85-115			
Chromium	50.5	2.5	"	50.0		101	85-115			
Lead	48.8	5.0	"	50.0		97.6	85-115			
Selenium	50.0	12	"	50.0		100	85-115			
Silver	4.65	2.5	"	5.00		93.0	85-115			

**LCS (3062401-BS2)**

Prepared: 06/24/03 Analyzed: 06/25/03

Arsenic	48.4	8.0	mg/kg wet	50.0		96.8	85-115			
Barium	51.0	0.50	"	50.0		102	85-115			
Cadmium	47.2	1.0	"	50.0		94.4	85-115			
Chromium	51.5	2.5	"	50.0		103	85-115			
Lead	49.2	5.0	"	50.0		98.4	85-115			
Selenium	50.5	12	"	50.0		101	85-115			
Silver	4.70	2.5	"	5.00		94.0	85-115			

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Andrea Speck, Project Manager





RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-01-01  
Project Manager: Paul Ledebur

Reported:  
08/01/03 09:36

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062401 - EPA 3050B**

<b>Matrix Spike (3062401-MS1)</b>		<b>Source: K306446-01</b>		Prepared: 06/24/03		Analyzed: 06/25/03	
Arsenic	57.7	8.0	mg/kg dry	57.9	3.0	94.5	75-125
Barium	95.5	0.50	"	57.9	33	108	75-125
Cadmium	53.8	1.0	"	57.9	0.17	92.6	75-125
Chromium	61.9	2.5	"	57.9	5.1	98.1	75-125
Lead	82.8	5.0	"	57.9	27	96.4	75-125
Selenium	59.0	12	"	57.9	ND	102	75-125
Silver	5.61	2.5	"	5.79	0.35	90.8	75-125

<b>Matrix Spike (3062401-MS2)</b>		<b>Source: K306470-01</b>		Prepared: 06/24/03		Analyzed: 06/25/03	
Arsenic	73.2	8.0	mg/kg dry	60.0	18	92.0	75-125
Barium	176	0.50	"	60.0	120	93.3	75-125
Cadmium	51.9	1.0	"	60.0	0.54	85.6	75-125
Chromium	94.2	2.5	"	60.0	36	97.0	75-125
Lead	91.8	5.0	"	60.0	43	81.3	75-125
Selenium	56.4	12	"	60.0	ND	94.0	75-125
Silver	5.52	2.5	"	6.00	0.84	78.0	75-125

<b>Matrix Spike Dup (3062401-MSD1)</b>		<b>Source: K306446-01</b>		Prepared: 06/24/03		Analyzed: 06/25/03			
Arsenic	60.2	8.0	mg/kg dry	57.9	3.0	98.8	75-125	4.24	20
Barium	101	0.50	"	57.9	33	117	75-125	5.60	20
Cadmium	54.5	1.0	"	57.9	0.17	93.8	75-125	1.29	20
Chromium	62.5	2.5	"	57.9	5.1	99.1	75-125	0.965	20
Lead	82.2	5.0	"	57.9	27	95.3	75-125	0.727	20
Selenium	57.7	12	"	57.9	ND	99.7	75-125	2.23	20
Silver	5.79	2.5	"	5.79	0.35	94.0	75-125	3.16	20

<b>Matrix Spike Dup (3062401-MSD2)</b>		<b>Source: K306470-01</b>		Prepared: 06/24/03		Analyzed: 06/25/03			
Arsenic	76.2	8.0	mg/kg dry	60.0	18	97.0	75-125	4.02	20
Barium	179	0.50	"	60.0	120	98.3	75-125	1.69	20
Cadmium	51.8	1.0	"	60.0	0.54	85.4	75-125	0.193	20
Chromium	93.0	2.5	"	60.0	36	95.0	75-125	1.28	20
Lead	103	5.0	"	60.0	43	100	75-125	11.5	20
Selenium	52.2	12	"	60.0	ND	87.0	75-125	7.73	20
Silver	5.46	2.5	"	6.00	0.84	77.0	75-125	1.09	20

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Andrea Speck, Project Manager

27 June 2003

RT ENVIRONMENTAL  
Paul Ledeber  
215 W. Church Rd.  
King of Prussia, PA 19406  
RE: Cramps Shipyard

Enclosed are the results of analyses for samples received by the laboratory on 06/19/03 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Andrea Speck Project Manager

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-1 S-1	K306446-01	Soil	06/17/03 09:30	06/19/03 10:55
TP-1 S-2	K306446-02	Soil	06/17/03 09:32	06/19/03 10:55
TP-2 S-3	K306446-03	Soil	06/17/03 10:02	06/19/03 10:55
TP-3 S-4	K306446-04	Soil	06/17/03 11:08	06/19/03 10:55
TP-3 S-5	K306446-05	Soil	06/17/03 11:14	06/19/03 10:55
TP-4 S-7	K306446-06	Soil	06/17/03 12:54	06/19/03 10:55
TP-5 S-8	K306446-07	Soil	06/17/03 13:35	06/19/03 10:55
TP-5 S-9	K306446-08	Soil	06/17/03 13:37	06/19/03 10:55
TP-6 S-10	K306446-09	Soil	06/17/03 14:10	06/19/03 10:55
TP-6 S-11	K306446-10	Soil	06/17/03 14:14	06/19/03 10:55
TP-7 S-12	K306446-11	Soil	06/17/03 14:45	06/19/03 10:55
TP-7 S-13	K306446-12	Soil	06/17/03 14:46	06/19/03 10:55
TP-8 S-14	K306446-13	Soil	06/18/03 10:23	06/19/03 10:55
TP-8 S-15	K306446-14	Soil	06/18/03 10:25	06/19/03 10:55
TP-9 S-17	K306446-15	Soil	06/18/03 11:18	06/19/03 10:55
TP-10 S-18	K306446-16	Soil	06/18/03 12:11	06/19/03 10:55
TP-10 S-19	K306446-17	Soil	06/18/03 12:14	06/19/03 10:55
TP-11 S-20	K306446-18	Soil	06/18/03 13:41	06/19/03 10:55
TP-11 S-21	K306446-19	Soil	06/18/03 13:43	06/19/03 10:55
TP-12 S-22	K306446-20	Soil	06/18/03 14:45	06/19/03 10:55
TP-13 S-23	K306446-21	Soil	06/18/03 14:57	06/19/03 10:55
TP-13 S-24	K306446-22	Soil	06/18/03 14:59	06/19/03 10:55
TP-14 S-25	K306446-23	Soil	06/18/03 15:20	06/19/03 10:55
TP-14 S-26	K306446-24	Soil	06/18/03 15:22	06/19/03 10:55

**Total Metals by EPA 6000/7000 Series Methods  
GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 S-1 (K306446-01) Soil</b>	<b>Sampled: 06/17/03 09:30</b>	<b>Received: 06/19/03 10:55</b>							
<b>Mercury</b>	<b>0.127</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>33</b>	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>5.1</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>27</b>	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>TP-1 S-2 (K306446-02) Soil</b>	<b>Sampled: 06/17/03 09:32</b>	<b>Received: 06/19/03 10:55</b>							
Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A	
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>21</b>	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>11</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>12</b>	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

TP-2 S-3 (K306446-03) Soil Sampled: 06/17/03 10:02 Received: 06/19/03 10:55

<b>Mercury</b>	<b>1.53</b>	0.500	mg/kg dry	5	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	ND	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>76</b>	0.50	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>20</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>230</b>	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

TP-3 S-4 (K306446-04) Soil Sampled: 06/17/03 11:08 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.147</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>150</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>34</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>32</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-3 S-5 (K306446-05) Soil Sampled: 06/17/03 11:14 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.721</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
<b>Arsenic</b>	<b>8.3</b>	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>68</b>	0.50	"	"	"	"	"	"
<b>Cadmium</b>	<b>ND</b>	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>14</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>180</b>	5.0	"	"	"	"	"	"
<b>Selenium</b>	<b>ND</b>	12	"	"	"	"	"	"
<b>Silver</b>	<b>ND</b>	2.5	"	"	"	"	"	"

TP-4 S-7 (K306446-06) Soil Sampled: 06/17/03 12:54 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.208</b>	0.129	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
<b>Arsenic</b>	<b>23</b>	10	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>82</b>	0.65	"	"	"	"	"	"
Cadmium	ND	1.3	"	"	"	"	"	"
<b>Chromium</b>	<b>51</b>	3.2	"	"	"	"	"	"
<b>Lead</b>	<b>190</b>	6.5	"	"	"	"	"	"
Selenium	ND	16	"	"	"	"	"	"
Silver	ND	3.2	"	"	"	"	"	"

TP-5 S-8 (K306446-07) Soil Sampled: 06/17/03 13:35 Received: 06/19/03 10:55

Mercury	16.9	4.00	mg/kg dry	40	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	30	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
Barium	250	0.50	"	"	"	"	"	"	
Cadmium	7.0	1.0	"	"	"	"	"	"	
Chromium	320	2.5	"	"	"	"	"	"	
Lead	1400	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	



TP-5 S-9 (K306446-08) Soil Sampled: 06/17/03 13:37 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.197</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>73</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>22</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>61</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-6 S-10 (K306446-09) Soil Sampled: 06/17/03 14:10 Received: 06/19/03 10:55

<b>Mercury</b>	<b>19.8</b>	5.18	mg/kg dry	40	3062307	06/23/03	06/24/03	EPA 7471A	DILN
<b>Arsenic</b>	<b>66</b>	10	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>1000</b>	0.65	"	"	"	"	"	"	
<b>Cadmium</b>	<b>31</b>	1.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>290</b>	3.2	"	"	"	"	"	"	
<b>Lead</b>	<b>11000</b>	6.5	"	"	"	"	"	"	
Selenium	ND	16	"	"	"	"	"	"	
Silver	ND	3.2	"	"	"	"	"	"	

TP-6 S-11 (K306446-10) Soil Sampled: 06/17/03 14:14 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.730</b>	0.200	mg/kg dry	2	3062307	06/23/03	06/24/03	EPA 7471A	DILN
Arsenic	ND	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>390</b>	0.50	"	"	"	"	"	"	
<b>Cadmium</b>	<b>2.4</b>	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>26</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>340</b>	5.0	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

TP-7 S-12 (K306446-11) Soil Sampled: 06/17/03 14:45 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.523</b>	0.200	mg/kg dry	2	3062307	06/23/03	06/24/03	EPA 7471A	DILN
<b>Arsenic</b>	<b>9.7</b>	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>150</b>	0.50	"	"	"	"	"	"	
<b>Cadmium</b>	<b>ND</b>	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>20</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>220</b>	5.0	"	"	"	"	"	"	
<b>Selenium</b>	<b>ND</b>	12	"	"	"	"	"	"	
<b>Silver</b>	<b>ND</b>	2.5	"	"	"	"	"	"	

TP-7 S-13 (K306446-12) Soil Sampled: 06/17/03 14:46 Received: 06/19/03 10:55

Mercury	0.156	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	13	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
Barium	160	0.50	"	"	"	"	"	"
Cadmium	1.2	1.0	"	"	"	"	"	"
Chromium	38	2.5	"	"	"	"	"	"
Lead	320	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-8 S-14 (K306446-13) Soil Sampled: 06/18/03 10:23 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.254</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>79</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>16</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>410</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-8 S-15 (K306446-14) Soil Sampled: 06/18/03 10:25 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.635</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
<b>Arsenic</b>	<b>11</b>	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>150</b>	0.50	"	"	"	"	"	"
<b>Cadmium</b>	<b>5.1</b>	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>28</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>800</b>	5.0	"	"	"	"	"	"
<b>Selenium</b>	<b>ND</b>	12	"	"	"	"	"	"
<b>Silver</b>	<b>ND</b>	2.5	"	"	"	"	"	"

TP-9 S-17 (K306446-15) Soil Sampled: 06/18/03 11:18 Received: 06/19/03 10:55

Mercury	0.607	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	17	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
Barium	150	0.50	"	"	"	"	"	"
Cadmium	1.4	1.0	"	"	"	"	"	"
Chromium	25	2.5	"	"	"	"	"	"
Lead	570	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"



TP-10 S-18 (K306446-16) Soil Sampled: 06/18/03 12:11 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.648</b>	0.200	mg/kg dry	2	3062307	06/23/03	06/24/03	EPA 7471A	DILN
<b>Arsenic</b>	<b>13</b>	8.0	"	1	3062401	06/24/03	06/25/03	EPA 6010B	
<b>Barium</b>	<b>67</b>	0.50	"	"	"	"	"	"	
<b>Cadmium</b>	<b>ND</b>	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>28</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>150</b>	5.0	"	"	"	"	"	"	
<b>Selenium</b>	<b>ND</b>	12	"	"	"	"	"	"	
<b>Silver</b>	<b>ND</b>	2.5	"	"	"	"	"	"	

TP-10 S-19 (K306446-17) Soil Sampled: 06/18/03 12:14 Received: 06/19/03 10:55

Mercury	<b>0.796</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	<b>32</b>	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
Barium	<b>290</b>	0.50	"	"	"	"	"	"
Cadmium	<b>2.2</b>	1.0	"	"	"	"	"	"
Chromium	<b>64</b>	2.5	"	"	"	"	"	"
Lead	<b>1900</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-11 S-20 (K306446-18) Soil Sampled: 06/18/03 13:41 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.131</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>84</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>17</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>85</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-11 S-21 (K306446-19) Soil Sampled: 06/18/03 13:43 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.404</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
<b>Arsenic</b>	<b>8.0</b>	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>82</b>	0.50	"	"	"	"	"	"
<b>Cadmium</b>	<b>ND</b>	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>14</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>160</b>	5.0	"	"	"	"	"	"
<b>Selenium</b>	<b>ND</b>	12	"	"	"	"	"	"
<b>Silver</b>	<b>ND</b>	2.5	"	"	"	"	"	"

TP-12 S-22 (K306446-20) Soil Sampled: 06/18/03 14:45 Received: 06/19/03 10:55

Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>82</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>9.4</b>	2.5	"	"	"	"	"	"
Lead	ND	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-13 S-23 (K306446-21) Soil Sampled: 06/18/03 14:57 Received: 06/19/03 10:55

Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>68</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>19</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>17</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-13 S-24 (K306446-22) Soil Sampled: 06/18/03 14:59 Received: 06/19/03 10:55

<b>Mercury</b>	<b>0.103</b>	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>78</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>19</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>16</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

TP-14 S-25 (K306446-23) Soil Sampled: 06/18/03 15:20 Received: 06/19/03 10:55

Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>130</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>10</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>7.0</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"



TP-14 S-26 (K306446-24) Soil Sampled: 06/18/03 15:22 Received: 06/19/03 10:55

Mercury	ND	0.100	mg/kg dry	1	3062307	06/23/03	06/24/03	EPA 7471A
Arsenic	ND	8.0	"	"	3062401	06/24/03	06/25/03	EPA 6010B
<b>Barium</b>	<b>47</b>	0.50	"	"	"	"	"	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>18</b>	2.5	"	"	"	"	"	"
<b>Lead</b>	<b>6.5</b>	5.0	"	"	"	"	"	"
Selenium	ND	12	"	"	"	"	"	"
Silver	ND	2.5	"	"	"	"	"	"

**Polychlorinated Biphenyls by EPA Method 8082**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 S-1 (K306446-01) Soil    Sampled: 06/17/03 09:30    Received: 06/19/03 10:55</b>									
PCB-1016	ND	50	ug/kg dry	1	3062314	06/23/03	06/24/03	EPA 8082	G4
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		55.3 %	60-126		"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		42.9 %	60-126		"	"	"	"	O4
<b>TP-1 S-2 (K306446-02) Soil    Sampled: 06/17/03 09:32    Received: 06/19/03 10:55</b>									
PCB-1016	ND	50	ug/kg dry	1	3062314	06/23/03	06/24/03	EPA 8082	G4
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		61.6 %	60-126		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		43.7 %	60-126		"	"	"	"	O4

TP-2 S-3 (K306446-03) Soil Sampled: 06/17/03 10:02 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		85.4 %	60-126		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		31.0 %	60-126		"	"	"	"	O4

TP-3 S-4 (K306446-04) Soil Sampled: 06/17/03 11:08 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/24/03	06/24/03	EPA 8082
PCB-1221	ND	50	"	"	"	"	"	"
PCB-1232	ND	50	"	"	"	"	"	"
PCB-1242	ND	50	"	"	"	"	"	"
PCB-1248	ND	50	"	"	"	"	"	"
PCB-1254	ND	50	"	"	"	"	"	"
PCB-1260	ND	50	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene  
 Surrogate: Decachlorobiphenyl

61.1 % 60-126 " " " "  
 51.3 % 60-126 " " " "

TP-3 S-5 (K306446-05) Soil Sampled: 06/17/03 11:14 Received: 06/19/03 10:55

PCB-1016	ND	42	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	42	"	"	"	"	"	"	
PCB-1232	ND	42	"	"	"	"	"	"	
PCB-1242	ND	42	"	"	"	"	"	"	
PCB-1248	ND	42	"	"	"	"	"	"	
PCB-1254	ND	42	"	"	"	"	"	"	
PCB-1260	ND	42	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		62.8 %	60-126		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		48.0 %	60-126		"	"	"	"	O4

TP-4 S-7 (K306446-06) Soil Sampled: 06/17/03 12:54 Received: 06/19/03 10:55

PCB-1016	ND	65	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	65	"	"	"	"	"	"	
PCB-1232	ND	65	"	"	"	"	"	"	
PCB-1242	ND	65	"	"	"	"	"	"	
PCB-1248	ND	65	"	"	"	"	"	"	
PCB-1254	ND	65	"	"	"	"	"	"	
PCB-1260	ND	65	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		48.7 %	60-126	"	"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		34.3 %	60-126	"	"	"	"	"	O4

TP-5 S-8 (K306446-07) Soil Sampled: 06/17/03 13:35 Received: 06/19/03 10:55

DILN

PCB-1016	ND	5000	ug/kg dry	100	3062314	06/24/03	06/26/03	EPA 8082
PCB-1221	ND	5000	"	"	"	"	"	"
PCB-1232	ND	5000	"	"	"	"	"	"
PCB-1242	ND	5000	"	"	"	"	"	"
PCB-1248	ND	5000	"	"	"	"	"	"
<b>PCB-1254</b>	<b>13000</b>	5000	"	"	"	"	"	"
PCB-1260	ND	5000	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene

132 %

60-126

"

"

"

"

A-01

Surrogate: Decachlorobiphenyl

123 %

60-126

"

"

"

"

TP-5 S-9 (K306446-08) Soil Sampled: 06/17/03 13:37 Received: 06/19/03 10:55

DILN

PCB-1016	ND	100	ug/kg dry	2	3062314	06/23/03	06/26/03	EPA 8082	G4
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>310</b>	100	"	"	"	"	"	"	
PCB-1260	ND	100	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		86.2 %		60-126	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		57.9 %		60-126	"	"	"	"	O4



TP-6 S-10 (K306446-09) Soil Sampled: 06/17/03 14:10 Received: 06/19/03 10:55

DILN

PCB-1016	ND	16000	ug/kg dry	200	3062314	06/23/03	06/26/03	EPA 8082	G4
PCB-1221	ND	16000	"	"	"	"	"	"	
PCB-1232	ND	16000	"	"	"	"	"	"	
PCB-1242	ND	16000	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>54000</b>	16000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>35000</b>	16000	"	"	"	"	"	"	
PCB-1260	ND	16000	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		126 %		60-126	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		126 %		60-126	"	"	"	"	

TP-6 S-11 (K306446-10) Soil Sampled: 06/17/03 14:14 Received: 06/19/03 10:55

DILN

PCB-1016	ND	250	ug/kg dry	5	3062314	06/23/03	06/26/03	EPA 8082	G4
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>790</b>	250	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1600</b>	500	"	10	"	"	06/26/03	"	
PCB-1260	ND	250	"	5	"	"	06/26/03	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		94.5 %	60-126	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		98.8 %	60-126	"	"	"	"	"	

TP-7 S-12 (K306446-11) Soil Sampled: 06/17/03 14:45 Received: 06/19/03 10:55

PCB-1016	ND	41	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	41	"	"	"	"	"	"	
PCB-1232	ND	41	"	"	"	"	"	"	
PCB-1242	ND	41	"	"	"	"	"	"	
PCB-1248	ND	41	"	"	"	"	"	"	
PCB-1254	ND	41	"	"	"	"	"	"	
PCB-1260	ND	41	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		102 %	60-126		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		33.7 %	60-126		"	"	"	"	O4

TP-7 S-13 (K306446-12) Soil Sampled: 06/17/03 14:46 Received: 06/19/03 10:55

DILN

PCB-1016	ND	270	ug/kg dry	10	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	270	"	"	"	"	"	"	
PCB-1232	ND	270	"	"	"	"	"	"	
PCB-1242	ND	270	"	"	"	"	"	"	
PCB-1248	ND	270	"	"	"	"	"	"	
PCB-1254	410	270	"	"	"	"	"	"	
PCB-1260	310	270	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		119 %		60-126	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		60.4 %		60-126	"	"	"	"	

TP-8 S-14 (K306446-13) Soil Sampled: 06/18/03 10:23 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		80.2 %	60-126	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		42.4 %	60-126	"	"	"	"	"	O4

TP-8 S-15 (K306446-14) Soil Sampled: 06/18/03 10:25 Received: 06/19/03 10:55

DILN, O7

PCB-1016	ND	880	ug/kg dry	10	3062314	06/23/03	06/26/03	EPA 8082	G4
PCB-1221	ND	880	"	"	"	"	"	"	
PCB-1232	ND	880	"	"	"	"	"	"	
PCB-1242	ND	880	"	"	"	"	"	"	
PCB-1248	ND	880	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>2000</b>	880	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1100</b>	880	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		84.6 %	60-126	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		91.8 %	60-126	"	"	"	"	"	

TP-9 S-17 (K306446-15) Soil Sampled: 06/18/03 11:18 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/24/03	06/25/03	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>65</b>	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>760</b>	250	"	5	"	"	06/26/03	"	DILN
<i>Surrogate: Tetrachloro-meta-xylene</i>		61.6 %		60-126	"	"	06/25/03	"	
<i>Surrogate: Decachlorobiphenyl</i>		35.2 %		60-126	"	"	"	"	O4

TP-10 S-18 (K306446-16) Soil Sampled: 06/18/03 12:11 Received: 06/19/03 10:55

DILN

PCB-1016	ND	140	ug/kg dry	4	3062314	06/24/03	06/26/03	EPA 8082
PCB-1221	ND	140	"	"	"	"	"	"
PCB-1232	ND	140	"	"	"	"	"	"
PCB-1242	ND	140	"	"	"	"	"	"
PCB-1248	ND	140	"	"	"	"	"	"
<b>PCB-1254</b>	<b>340</b>	140	"	"	"	"	"	"
PCB-1260	ND	140	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene

60.6 % 60-126 " " " "

Surrogate: Decachlorobiphenyl

51.8 % 60-126 " " " "

O4



TP-10 S-19 (K306446-17) Soil Sampled: 06/18/03 12:14 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>83</b>	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		54.7 %	60-126	"	"	"	"	"	<i>O4</i>
<i>Surrogate: Decachlorobiphenyl</i>		20.2 %	60-126	"	"	"	"	"	<i>O4</i>

TP-11 S-20 (K306446-18) Soil Sampled: 06/18/03 13:41 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/23/03	06/25/03	EPA 8082	G4
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	G4
<i>Surrogate: Tetrachloro-meta-xylene</i>		85.1 %	60-126		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		53.4 %	60-126		"	"	"	"	O4

TP-11 S-21 (K306446-19) Soil Sampled: 06/18/03 13:43 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/24/03	06/25/03	EPA 8082
PCB-1221	ND	50	"	"	"	"	"	"
PCB-1232	ND	50	"	"	"	"	"	"
PCB-1242	ND	50	"	"	"	"	"	"
PCB-1248	ND	50	"	"	"	"	"	"
PCB-1254	ND	50	"	"	"	"	"	"
PCB-1260	ND	50	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene 72.0 % 60-126 " " " "

Surrogate: Decachlorobiphenyl 23.9 % 60-126 " " " "

TP-12 S-22 (K306446-20) Soil Sampled: 06/18/03 14:45 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/24/03	06/24/03	EPA 8082
PCB-1221	ND	50	"	"	"	"	"	"
PCB-1232	ND	50	"	"	"	"	"	"
PCB-1242	ND	50	"	"	"	"	"	"
PCB-1248	ND	50	"	"	"	"	"	"
PCB-1254	ND	50	"	"	"	"	"	"
PCB-1260	ND	50	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene  
 Surrogate: Decachlorobiphenyl

58.2 % 60-126  
 38.6 % 60-126

" " " " " " " "

O4  
 O4

TP-13 S-23 (K306446-21) Soil Sampled: 06/18/03 14:57 Received: 06/19/03 10:55

PCB-1016	ND	41	ug/kg dry	1	3062314	06/24/03	06/24/03	EPA 8082	
PCB-1221	ND	41	"	"	"	"	"	"	
PCB-1232	ND	41	"	"	"	"	"	"	
PCB-1242	ND	41	"	"	"	"	"	"	
PCB-1248	ND	41	"	"	"	"	"	"	
PCB-1254	ND	41	"	"	"	"	"	"	
PCB-1260	ND	41	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		57.4 %		60-126	"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		35.4 %		60-126	"	"	"	"	O4

TP-13 S-24 (K306446-22) Soil Sampled: 06/18/03 14:59 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/24/03	06/24/03	EPA 8082
PCB-1221	ND	50	"	"	"	"	"	"
PCB-1232	ND	50	"	"	"	"	"	"
PCB-1242	ND	50	"	"	"	"	"	"
PCB-1248	ND	50	"	"	"	"	"	"
PCB-1254	ND	50	"	"	"	"	"	"
PCB-1260	ND	50	"	"	"	"	"	"
<i>Surrogate: Tetrachloro-meta-xylene</i>		65.5 %	60-126	"	"	"	"	"
<i>Surrogate: Decachlorobiphenyl</i>		40.8 %	60-126	"	"	"	"	"

TP-14 S-25 (K306446-23) Soil Sampled: 06/18/03 15:20 Received: 06/19/03 10:55

PCB-1016	ND	41	ug/kg dry	1	3062314	06/24/03	06/24/03	EPA 8082	
PCB-1221	ND	41	"	"	"	"	"	"	
PCB-1232	ND	41	"	"	"	"	"	"	
PCB-1242	ND	41	"	"	"	"	"	"	
PCB-1248	ND	41	"	"	"	"	"	"	
PCB-1254	ND	41	"	"	"	"	"	"	
PCB-1260	ND	41	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		57.9 %		60-126	"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		37.6 %		60-126	"	"	"	"	O4

TP-14 S-26 (K306446-24) Soil Sampled: 06/18/03 15:22 Received: 06/19/03 10:55

PCB-1016	ND	50	ug/kg dry	1	3062314	06/24/03	06/24/03	EPA 8082
PCB-1221	ND	50	"	"	"	"	"	"
PCB-1232	ND	50	"	"	"	"	"	"
PCB-1242	ND	50	"	"	"	"	"	"
PCB-1248	ND	50	"	"	"	"	"	"
PCB-1254	ND	50	"	"	"	"	"	"
PCB-1260	ND	50	"	"	"	"	"	"
<i>Surrogate: Tetrachloro-meta-xylene</i>		65.0 %	60-126		"	"	"	"
<i>Surrogate: Decachlorobiphenyl</i>		47.9 %	60-126		"	"	"	"



**Semivolatile Organic Compounds by EPA Method 8270C**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 S-1 (K306446-01) Soil</b>	<b>Sampled: 06/17/03 09:30 Received: 06/19/03 10:55</b>								
Acenaphthene	ND	100	ug/kg dry	1	3062428	06/25/03	06/26/03	EPA 8270C	
Acenaphthylene	ND	100	"	"	"	"	"	"	
Aniline	ND	100	"	"	"	"	"	"	
Anthracene	ND	100	"	"	"	"	"	"	
Benzoic acid	ND	500	"	"	"	"	"	"	
Benz (a) anthracene	ND	100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"	
Benzyl alcohol	ND	100	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"	
4-Chloroaniline	ND	100	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"	
2-Chloronaphthalene	ND	100	"	"	"	"	"	"	
2-Chlorophenol	ND	100	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"	
Chrysene	ND	100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"	
Dibenzofuran	ND	100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"	
Diethyl phthalate	ND	100	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"	
Dimethyl phthalate	ND	100	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"	
Fluoranthene	ND	100	"	"	"	"	"	"	
Fluorene	ND	100	"	"	"	"	"	"	
Hexachlorobenzene	ND	100	"	"	"	"	"	"	
Hexachlorobutadiene	ND	100	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"	
Hexachloroethane	ND	100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"	
Isophorone	ND	100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	100	"	"	"	"	"	"	
2-Methylphenol	ND	100	"	"	"	"	"	"	
3,4-Methylphenol	ND	100	"	"	"	"	"	"	
Naphthalene	ND	100	"	"	"	"	"	"	
2-Nitroaniline	ND	500	"	"	"	"	"	"	
3-Nitroaniline	ND	500	"	"	"	"	"	"	
4-Nitroaniline	ND	500	"	"	"	"	"	"	
Nitrobenzene	ND	100	"	"	"	"	"	"	
2-Nitrophenol	ND	100	"	"	"	"	"	"	
4-Nitrophenol	ND	500	"	"	"	"	"	"	

N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
Phenanthrene	ND	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
Pyrene	ND	100	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		65.5 %		25-121	"	"	"	"
<i>Surrogate: Phenol-d6</i>		68.9 %		24-113	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		79.3 %		23-120	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		77.7 %		30-115	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		71.5 %		19-122	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		85.0 %		18-137	"	"	"	"

TP-1 S-2 (K306446-02) Soil Sampled: 06/17/03 09:32 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062428	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
Anthracene	ND	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
Benz (a) anthracene	ND	100	"	"	"	"	"	"
Benzo (a) pyrene	ND	100	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
Chrysene	ND	100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
Fluoranthene	ND	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
Phenanthrene	ND	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
Pyrene	ND	100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		69.8 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		69.6 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		76.9 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		79.5 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		81.1 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		89.2 %	18-137	"	"	"	"	"

TP-2 S-3 (K306446-03) Soil Sampled: 06/17/03 10:02 Received: 06/19/03 10:55

*Crump*  
7431-01

DILN

Acenaphthene	ND	1000	ug/kg dry	10	3062428	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
<b>Anthracene</b>	<b>1400</b>	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>4200</b>	1000	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>3500</b>	1000	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>4300</b>	1000	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>1700</b>	1000	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>2100</b>	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
<b>Chrysene</b>	<b>4100</b>	1000	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"
Dibenzofuran	ND	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>9400</b>	1000	"	"	"	"	"	"
Fluorene	ND	1000	"	"	"	"	"	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1900</b>	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>5600</b>	1000	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"
<b>Pyrene</b>	<b>6900</b>	1000	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		70.1 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		75.8 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		79.2 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		88.5 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		65.9 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		82.3 %	18-137	"	"	"	"	"

TP-3 S-4 (K306446-04) Soil Sampled: 06/17/03 11:08 Received: 06/19/03 10:55

DILN

Acenaphthene	14000	1000	ug/kg dry	10	3062428	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
Anthracene	17000	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
Benz (a) anthracene	27000	1000	"	"	"	"	"	"
Benzo (a) pyrene	18000	1000	"	"	"	"	"	"
Benzo (b) fluoranthene	23000	1000	"	"	"	"	"	"
Benzo (g,h,i) perylene	5800	1000	"	"	"	"	"	"
Benzo (k) fluoranthene	9000	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Chrysene	27000	1000	"	"	"	"	"	"
Dibenz (a,h) anthracene	2600	1000	"	"	"	"	"	"
Dibenzofuran	12000	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
Fluoranthene	66000	5000	"	50	"	"	06/26/03	"
Fluorene	14000	1000	"	10	"	"	06/26/03	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	7000	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	8700	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	1100	1000	"	"	"	"	"	"
Naphthalene	13000	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
Phenanthrene	110000	5000	"	50	"	"	06/26/03	"
Phenol	ND	1000	"	10	"	"	06/26/03	"

<b>Pyrene</b>	<b>53000</b>	<b>1000</b>	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		68.6 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		72.2 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		77.3 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		85.6 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		65.3 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		89.7 %	18-137	"	"	"	"	"



TP-3 S-5 (K306446-05) Soil Sampled: 06/17/03 11:14 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062428	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
<b>Anthracene</b>	<b>240</b>	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>1300</b>	100	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>1300</b>	100	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>1500</b>	100	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>670</b>	100	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>650</b>	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
<b>Chrysene</b>	<b>1300</b>	100	"	"	"	"	"	"
<b>Dibenz (a,h) anthracene</b>	<b>210</b>	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>2300</b>	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>750</b>	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>1000</b>	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"

<b>Pyrene</b>	<b>1900</b>	100	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		81.0 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		82.0 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		93.6 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		92.1 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		97.3 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		99.0 %	18-137	"	"	"	"	"

TP-4 S-7 (K306446-06) Soil Sampled: 06/17/03 12:54 Received: 06/19/03 10:55

Acenaphthene	ND	99	ug/kg dry	1	3062428	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	99	"	"	"	"	"	"
Aniline	ND	99	"	"	"	"	"	"
Anthracene	ND	99	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>330</b>	99	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>360</b>	99	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>440</b>	99	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>210</b>	99	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>140</b>	99	"	"	"	"	"	"
Benzyl alcohol	ND	99	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	99	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	99	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	99	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	99	"	"	"	"	"	"
Butyl benzyl phthalate	ND	99	"	"	"	"	"	"
4-Chloroaniline	ND	99	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	99	"	"	"	"	"	"
2-Chloronaphthalene	ND	99	"	"	"	"	"	"
2-Chlorophenol	ND	99	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	99	"	"	"	"	"	"
<b>Chrysene</b>	<b>340</b>	99	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	99	"	"	"	"	"	"
Dibenzofuran	ND	99	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	99	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	99	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	99	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	99	"	"	"	"	"	"
Diethyl phthalate	ND	99	"	"	"	"	"	"
2,4-Dimethylphenol	ND	99	"	"	"	"	"	"
Dimethyl phthalate	ND	99	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	99	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	99	"	"	"	"	"	"
Di-n-octyl phthalate	ND	99	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>570</b>	99	"	"	"	"	"	"
Fluorene	ND	99	"	"	"	"	"	"
Hexachlorobenzene	ND	99	"	"	"	"	"	"
Hexachlorobutadiene	ND	99	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	99	"	"	"	"	"	"
Hexachloroethane	ND	99	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>220</b>	99	"	"	"	"	"	"
Isophorone	ND	99	"	"	"	"	"	"
2-Methylnaphthalene	ND	99	"	"	"	"	"	"
2-Methylphenol	ND	99	"	"	"	"	"	"
3,4-Methylphenol	ND	99	"	"	"	"	"	"
Naphthalene	ND	99	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	99	"	"	"	"	"	"
2-Nitrophenol	ND	99	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	99	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	99	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>210</b>	99	"	"	"	"	"	"
Phenol	ND	99	"	"	"	"	"	"
<b>Pyrene</b>	<b>500</b>	99	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	99	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	99	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		65.3 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		69.5 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		73.0 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		73.5 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		81.4 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		84.2 %	18-137	"	"	"	"	"

TP-5 S-8 (K306446-07) Soil Sampled: 06/17/03 13:35 Received: 06/19/03 10:55

DILN

Acenaphthene	ND	1000	ug/kg dry	10	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
Anthracene	ND	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>2900</b>	1000	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>2800</b>	1000	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>2700</b>	1000	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>1900</b>	1000	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>2200</b>	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
<b>Chrysene</b>	<b>3100</b>	1000	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"
Dibenzofuran	ND	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>5800</b>	1000	"	"	"	"	"	"
Fluorene	ND	1000	"	"	"	"	"	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>2000</b>	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>3200</b>	1000	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"
<b>Pyrene</b>	<b>4300</b>	1000	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		49.4 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		52.6 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		56.8 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		70.4 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		45.1 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		68.3 %	18-137	"	"	"	"	"

TP-5 S-9 (K306446-08) Soil Sampled: 06/17/03 13:37 Received: 06/19/03 10:55

DILN

Acenaphthene	ND	500	ug/kg dry	5	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	500	"	"	"	"	"	"
Aniline	ND	500	"	"	"	"	"	"
Anthracene	ND	500	"	"	"	"	"	"
Benzoic acid	ND	2500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>1200</b>	500	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>870</b>	500	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>1100</b>	500	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	500	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	500	"	"	"	"	"	"
Benzyl alcohol	ND	500	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	500	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	500	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	500	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1600	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	500	"	"	"	"	"	"
Butyl benzyl phthalate	ND	500	"	"	"	"	"	"
4-Chloroaniline	ND	500	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	500	"	"	"	"	"	"
2-Chloronaphthalene	ND	500	"	"	"	"	"	"
2-Chlorophenol	ND	500	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	500	"	"	"	"	"	"
<b>Chrysene</b>	<b>920</b>	500	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	500	"	"	"	"	"	"
Dibenzofuran	ND	500	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	2500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	500	"	"	"	"	"	"
Diethyl phthalate	ND	500	"	"	"	"	"	"
2,4-Dimethylphenol	ND	500	"	"	"	"	"	"
Dimethyl phthalate	ND	500	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1600	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	2500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	2500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	500	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	500	"	"	"	"	"	"
Di-n-octyl phthalate	ND	500	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>1800</b>	500	"	"	"	"	"	"
Fluorene	ND	500	"	"	"	"	"	"
Hexachlorobenzene	ND	500	"	"	"	"	"	"
Hexachlorobutadiene	ND	500	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	500	"	"	"	"	"	"
Hexachloroethane	ND	500	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	500	"	"	"	"	"	"
Isophorone	ND	500	"	"	"	"	"	"
2-Methylnaphthalene	ND	500	"	"	"	"	"	"
2-Methylphenol	ND	500	"	"	"	"	"	"
3,4-Methylphenol	ND	500	"	"	"	"	"	"
Naphthalene	ND	500	"	"	"	"	"	"
2-Nitroaniline	ND	2500	"	"	"	"	"	"
3-Nitroaniline	ND	2500	"	"	"	"	"	"
4-Nitroaniline	ND	2500	"	"	"	"	"	"
Nitrobenzene	ND	500	"	"	"	"	"	"
2-Nitrophenol	ND	500	"	"	"	"	"	"
4-Nitrophenol	ND	2500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	500	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	500	"	"	"	"	"	"
Pentachlorophenol	ND	2500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>650</b>	500	"	"	"	"	"	"
Phenol	ND	500	"	"	"	"	"	"
<b>Pyrene</b>	<b>1600</b>	500	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	2500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	500	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		63.4 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		66.2 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.9 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		78.1 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		74.9 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		84.2 %	18-137	"	"	"	"	"



TP-6 S-10 (K306446-09) Soil Sampled: 06/17/03 14:10 Received: 06/19/03 10:55

DILN

Acenaphthene	ND	2100	ug/kg dry	10	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	2100	"	"	"	"	"	"
Aniline	ND	2100	"	"	"	"	"	"
Anthracene	ND	2100	"	"	"	"	"	"
Benzoic acid	ND	11000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>4600</b>	2100	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>4600</b>	2100	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>6100</b>	2100	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>3300</b>	2100	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>2400</b>	2100	"	"	"	"	"	"
Benzyl alcohol	ND	2100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	2100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	2100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	2100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	7000	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	2100	"	"	"	"	"	"
<b>Butyl benzyl phthalate</b>	<b>2800</b>	2100	"	"	"	"	"	"
4-Chloroaniline	ND	2100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	2100	"	"	"	"	"	"
2-Chloronaphthalene	ND	2100	"	"	"	"	"	"
2-Chlorophenol	ND	2100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	2100	"	"	"	"	"	"
<b>Chrysene</b>	<b>5000</b>	2100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	2100	"	"	"	"	"	"
Dibenzofuran	ND	2100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	11000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	2100	"	"	"	"	"	"
Diethyl phthalate	ND	2100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	2100	"	"	"	"	"	"
Dimethyl phthalate	ND	2100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	7000	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	11000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	11000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	2100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	2100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	2100	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>10000</b>	2100	"	"	"	"	"	"
Fluorene	ND	2100	"	"	"	"	"	"
Hexachlorobenzene	ND	2100	"	"	"	"	"	"
Hexachlorobutadiene	ND	2100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	2100	"	"	"	"	"	"
Hexachloroethane	ND	2100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	2100	"	"	"	"	"	"
Isophorone	ND	2100	"	"	"	"	"	"
2-Methylnaphthalene	ND	2100	"	"	"	"	"	"
2-Methylphenol	ND	2100	"	"	"	"	"	"
3,4-Methylphenol	ND	2100	"	"	"	"	"	"
Naphthalene	ND	2100	"	"	"	"	"	"
2-Nitroaniline	ND	11000	"	"	"	"	"	"
3-Nitroaniline	ND	11000	"	"	"	"	"	"
4-Nitroaniline	ND	11000	"	"	"	"	"	"
Nitrobenzene	ND	2100	"	"	"	"	"	"
2-Nitrophenol	ND	2100	"	"	"	"	"	"
4-Nitrophenol	ND	11000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	2100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	2100	"	"	"	"	"	"
Pentachlorophenol	ND	11000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>5300</b>	2100	"	"	"	"	"	"
Phenol	ND	2100	"	"	"	"	"	"
<b>Pyrene</b>	<b>6700</b>	2100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	2100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	11000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	2100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		42.2 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		43.4 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		53.2 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		62.0 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		29.5 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		60.6 %	18-137	"	"	"	"	"

TP-6 S-11 (K306446-10) Soil Sampled: 06/17/03 14:14 Received: 06/19/03 10:55

<b>Acenaphthene</b>	<b>460</b>	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
<b>Acenaphthylene</b>	<b>120</b>	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
<b>Anthracene</b>	<b>540</b>	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>1400</b>	100	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>1200</b>	100	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>1500</b>	100	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>600</b>	100	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>760</b>	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
<b>Chrysene</b>	<b>1400</b>	100	"	"	"	"	"	"
<b>Dibenz (a,h) anthracene</b>	<b>200</b>	100	"	"	"	"	"	"
<b>Dibenzofuran</b>	<b>200</b>	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>3300</b>	100	"	"	"	"	"	"
<b>Fluorene</b>	<b>450</b>	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>700</b>	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>2100</b>	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"

<b>Pyrene</b>	<b>2000</b>	100	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		67.9 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		72.9 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		76.3 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		78.7 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		82.9 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		69.1 %	18-137	"	"	"	"	"

TP-7 S-12 (K306446-11) Soil Sampled: 06/17/03 14:45 Received: 06/19/03 10:55

DILN

<b>Acenaphthene</b>	<b>1800</b>	1000	ug/kg dry	10	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
<b>Anthracene</b>	<b>4200</b>	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>12000</b>	1000	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>11000</b>	1000	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>13000</b>	1000	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>5000</b>	1000	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>6500</b>	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
<b>Chrysene</b>	<b>12000</b>	1000	"	"	"	"	"	"
<b>Dibenz (a,h) anthracene</b>	<b>1600</b>	1000	"	"	"	"	"	"
<b>Dibenzofuran</b>	<b>1000</b>	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>27000</b>	1000	"	"	"	"	"	"
<b>Fluorene</b>	<b>2200</b>	1000	"	"	"	"	"	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>6000</b>	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>16000</b>	1000	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"

<b>Pyrene</b>	<b>16000</b>	1000	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		56.1 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		57.1 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		59.5 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		71.6 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		64.5 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		68.9 %	18-137	"	"	"	"	"

TP-7 S-13 (K306446-12) Soil Sampled: 06/17/03 14:46 Received: 06/19/03 10:55

DILN

<b>Acenaphthene</b>	<b>1400</b>	1000	ug/kg dry	10	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
<b>Anthracene</b>	<b>3400</b>	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>7600</b>	1000	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>6200</b>	1000	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>8000</b>	1000	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>2800</b>	1000	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>3100</b>	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
<b>Chrysene</b>	<b>7000</b>	1000	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"
<b>Dibenzofuran</b>	<b>1100</b>	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>18000</b>	1000	"	"	"	"	"	"
<b>Fluorene</b>	<b>2200</b>	1000	"	"	"	"	"	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>3400</b>	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>10000</b>	1000	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"

<b>Pyrene</b>	<b>9900</b>	<b>1000</b>	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		60.7 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		61.3 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		66.0 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		73.8 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		65.4 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		62.8 %	18-137	"	"	"	"	"



TP-8 S-14 (K306446-13) Soil Sampled: 06/18/03 10:23 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
<b>Acenaphthylene</b>	<b>280</b>	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
<b>Anthracene</b>	<b>210</b>	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>1100</b>	100	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>1000</b>	100	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>1300</b>	100	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>510</b>	100	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>760</b>	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
<b>Chrysene</b>	<b>1200</b>	100	"	"	"	"	"	"
<b>Dibenz (a,h) anthracene</b>	<b>200</b>	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
<b>Di-n-butyl phthalate</b>	<b>410</b>	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>2300</b>	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>600</b>	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>810</b>	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"

<b>Pyrene</b>	<b>1200</b>	100	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		65.6 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		68.1 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.9 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		71.9 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		78.6 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		60.8 %	18-137	"	"	"	"	"

<b>Acenaphthene</b>	<b>1400</b>	1000	ug/kg dry	10	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
<b>Anthracene</b>	<b>4500</b>	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>7700</b>	1000	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>6100</b>	1000	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>7100</b>	1000	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>2700</b>	1000	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>3700</b>	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
<b>Chrysene</b>	<b>7400</b>	1000	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"
<b>Dibenzofuran</b>	<b>1300</b>	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>22000</b>	1000	"	"	"	"	"	"
<b>Fluorene</b>	<b>2100</b>	1000	"	"	"	"	"	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>3300</b>	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
<b>N-Nitrosodiphenylamine</b>	<b>1300</b>	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>17000</b>	1000	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"

<b>Pyrene</b>	<b>11000</b>	<b>1000</b>	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		52.7 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		59.5 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		71.4 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		71.9 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		33.7 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		58.9 %	18-137	"	"	"	"	"

TP-9 S-17 (K306446-15) Soil Sampled: 06/18/03 11:18 Received: 06/19/03 10:55

DILN

<b>Acenaphthene</b>	<b>2500</b>	500	ug/kg dry	5	3062431	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	500	"	"	"	"	"	"
Aniline	ND	500	"	"	"	"	"	"
<b>Anthracene</b>	<b>4200</b>	500	"	"	"	"	"	"
Benzoic acid	ND	2500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>5300</b>	500	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>4400</b>	500	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>5400</b>	500	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>2700</b>	500	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>1500</b>	500	"	"	"	"	"	"
Benzyl alcohol	ND	500	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	500	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	500	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	500	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1600	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	500	"	"	"	"	"	"
Butyl benzyl phthalate	ND	500	"	"	"	"	"	"
4-Chloroaniline	ND	500	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	500	"	"	"	"	"	"
2-Chloronaphthalene	ND	500	"	"	"	"	"	"
2-Chlorophenol	ND	500	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	500	"	"	"	"	"	"
<b>Chrysene</b>	<b>5000</b>	500	"	"	"	"	"	"
<b>Dibenz (a,h) anthracene</b>	<b>770</b>	500	"	"	"	"	"	"
<b>Dibenzofuran</b>	<b>1800</b>	500	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	2500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	500	"	"	"	"	"	"
Diethyl phthalate	ND	500	"	"	"	"	"	"
2,4-Dimethylphenol	ND	500	"	"	"	"	"	"
Dimethyl phthalate	ND	500	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1600	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	2500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	2500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	500	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	500	"	"	"	"	"	"
Di-n-octyl phthalate	ND	500	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>15000</b>	500	"	"	"	"	"	"
<b>Fluorene</b>	<b>2400</b>	500	"	"	"	"	"	"
Hexachlorobenzene	ND	500	"	"	"	"	"	"
Hexachlorobutadiene	ND	500	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	500	"	"	"	"	"	"
Hexachloroethane	ND	500	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>2900</b>	500	"	"	"	"	"	"
Isophorone	ND	500	"	"	"	"	"	"
<b>2-Methylnaphthalene</b>	<b>740</b>	500	"	"	"	"	"	"
2-Methylphenol	ND	500	"	"	"	"	"	"
3,4-Methylphenol	ND	500	"	"	"	"	"	"
<b>Naphthalene</b>	<b>1300</b>	500	"	"	"	"	"	"
2-Nitroaniline	ND	2500	"	"	"	"	"	"
3-Nitroaniline	ND	2500	"	"	"	"	"	"
4-Nitroaniline	ND	2500	"	"	"	"	"	"
Nitrobenzene	ND	500	"	"	"	"	"	"
2-Nitrophenol	ND	500	"	"	"	"	"	"
4-Nitrophenol	ND	2500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	500	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	500	"	"	"	"	"	"
Pentachlorophenol	ND	2500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>17000</b>	500	"	"	"	"	"	"
Phenol	ND	500	"	"	"	"	"	"

<b>Pyrene</b>	<b>11000</b>	<b>500</b>	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	2500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	500	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		72.2 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.5 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		86.5 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		96.0 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		79.5 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		97.0 %	18-137	"	"	"	"	"

<b>Acenaphthene</b>	<b>2100</b>	1000	ug/kg dry	10	3062431	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	1000	"	"	"	"	"	"
Aniline	ND	1000	"	"	"	"	"	"
<b>Anthracene</b>	<b>3300</b>	1000	"	"	"	"	"	"
Benzoic acid	ND	5000	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>14000</b>	1000	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>15000</b>	1000	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>17000</b>	1000	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>11000</b>	1000	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>8700</b>	1000	"	"	"	"	"	"
Benzyl alcohol	ND	1000	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1000	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1000	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1000	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1000	"	"	"	"	"	"
4-Chloroaniline	ND	1000	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Chloronaphthalene	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1000	"	"	"	"	"	"
<b>Chrysene</b>	<b>14000</b>	1000	"	"	"	"	"	"
<b>Dibenz (a,h) anthracene</b>	<b>3100</b>	1000	"	"	"	"	"	"
<b>Dibenzofuran</b>	<b>1100</b>	1000	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	5000	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	1000	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	1000	"	"	"	"	"	"
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1000	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>28000</b>	1000	"	"	"	"	"	"
<b>Fluorene</b>	<b>1500</b>	1000	"	"	"	"	"	"
Hexachlorobenzene	ND	1000	"	"	"	"	"	"
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	1000	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>12000</b>	1000	"	"	"	"	"	"
Isophorone	ND	1000	"	"	"	"	"	"
<b>2-Methylnaphthalene</b>	<b>1100</b>	1000	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
3,4-Methylphenol	ND	1000	"	"	"	"	"	"
<b>Naphthalene</b>	<b>1100</b>	1000	"	"	"	"	"	"
2-Nitroaniline	ND	5000	"	"	"	"	"	"
3-Nitroaniline	ND	5000	"	"	"	"	"	"
4-Nitroaniline	ND	5000	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
4-Nitrophenol	ND	5000	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1000	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	1000	"	"	"	"	"	"
Pentachlorophenol	ND	5000	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>11000</b>	1000	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"

<b>Pyrene</b>	<b>17000</b>	1000	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		66.5 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		71.9 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		76.0 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		96.4 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		65.0 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		83.2 %	18-137	"	"	"	"	"



TP-10 S-19 (K306446-17) Soil Sampled: 06/18/03 12:14 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/26/03	EPA 8270C	
Acenaphthylene	ND	100	"	"	"	"	"	"	
Aniline	ND	100	"	"	"	"	"	"	
<b>Anthracene</b>	<b>190</b>	100	"	"	"	"	"	"	
Benzoic acid	ND	500	"	"	"	"	"	"	
<b>Benz (a) anthracene</b>	<b>640</b>	100	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>600</b>	100	"	"	"	"	"	"	O3
<b>Benzo (b) fluoranthene</b>	<b>810</b>	100	"	"	"	"	"	"	O3
<b>Benzo (g,h,i) perylene</b>	<b>420</b>	100	"	"	"	"	"	"	O3
<b>Benzo (k) fluoranthene</b>	<b>270</b>	100	"	"	"	"	"	"	O3
Benzyl alcohol	ND	100	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"	
4-Chloroaniline	ND	100	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"	
2-Chloronaphthalene	ND	100	"	"	"	"	"	"	
2-Chlorophenol	ND	100	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"	
<b>Chrysene</b>	<b>680</b>	100	"	"	"	"	"	"	
<b>Dibenz (a,h) anthracene</b>	<b>120</b>	100	"	"	"	"	"	"	O3
Dibenzofuran	ND	100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"	
Diethyl phthalate	ND	100	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"	
Dimethyl phthalate	ND	100	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>1300</b>	100	"	"	"	"	"	"	
Fluorene	ND	100	"	"	"	"	"	"	
Hexachlorobenzene	ND	100	"	"	"	"	"	"	
Hexachlorobutadiene	ND	100	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"	
Hexachloroethane	ND	100	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>420</b>	100	"	"	"	"	"	"	
Isophorone	ND	100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	100	"	"	"	"	"	"	
2-Methylphenol	ND	100	"	"	"	"	"	"	
3,4-Methylphenol	ND	100	"	"	"	"	"	"	
Naphthalene	ND	100	"	"	"	"	"	"	
2-Nitroaniline	ND	500	"	"	"	"	"	"	
3-Nitroaniline	ND	500	"	"	"	"	"	"	
4-Nitroaniline	ND	500	"	"	"	"	"	"	
Nitrobenzene	ND	100	"	"	"	"	"	"	
2-Nitrophenol	ND	100	"	"	"	"	"	"	
4-Nitrophenol	ND	500	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"	
Pentachlorophenol	ND	500	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>620</b>	100	"	"	"	"	"	"	
Phenol	ND	100	"	"	"	"	"	"	

<b>Pyrene</b>	<b>870</b>	100	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		69.6 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		72.3 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		82.0 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		77.2 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		76.6 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		72.8 %	18-137	"	"	"	"	"

Acenaphthene	ND	500	ug/kg dry	5	3062431	06/25/03	06/26/03	EPA 8270C
Acenaphthylene	ND	500	"	"	"	"	"	"
Aniline	ND	500	"	"	"	"	"	"
<b>Anthracene</b>	<b>1000</b>	500	"	"	"	"	"	"
Benzoic acid	ND	2500	"	"	"	"	"	"
<b>Benz (a) anthracene</b>	<b>3200</b>	500	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>2800</b>	500	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>3500</b>	500	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>1400</b>	500	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>1100</b>	500	"	"	"	"	"	"
Benzyl alcohol	ND	500	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	500	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	500	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	500	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1600	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	500	"	"	"	"	"	"
Butyl benzyl phthalate	ND	500	"	"	"	"	"	"
4-Chloroaniline	ND	500	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	500	"	"	"	"	"	"
2-Chloronaphthalene	ND	500	"	"	"	"	"	"
2-Chlorophenol	ND	500	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	500	"	"	"	"	"	"
<b>Chrysene</b>	<b>2900</b>	500	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	500	"	"	"	"	"	"
Dibenzofuran	ND	500	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	2500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	500	"	"	"	"	"	"
Diethyl phthalate	ND	500	"	"	"	"	"	"
2,4-Dimethylphenol	ND	500	"	"	"	"	"	"
Dimethyl phthalate	ND	500	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1600	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	2500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	2500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	500	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	500	"	"	"	"	"	"
Di-n-octyl phthalate	ND	500	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>8600</b>	500	"	"	"	"	"	"
<b>Fluorene</b>	<b>550</b>	500	"	"	"	"	"	"
Hexachlorobenzene	ND	500	"	"	"	"	"	"
Hexachlorobutadiene	ND	500	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	500	"	"	"	"	"	"
Hexachloroethane	ND	500	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1600</b>	500	"	"	"	"	"	"
Isophorone	ND	500	"	"	"	"	"	"
2-Methylnaphthalene	ND	500	"	"	"	"	"	"
2-Methylphenol	ND	500	"	"	"	"	"	"
3,4-Methylphenol	ND	500	"	"	"	"	"	"
Naphthalene	ND	500	"	"	"	"	"	"
2-Nitroaniline	ND	2500	"	"	"	"	"	"
3-Nitroaniline	ND	2500	"	"	"	"	"	"
4-Nitroaniline	ND	2500	"	"	"	"	"	"
Nitrobenzene	ND	500	"	"	"	"	"	"
2-Nitrophenol	ND	500	"	"	"	"	"	"
4-Nitrophenol	ND	2500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	500	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	500	"	"	"	"	"	"
Pentachlorophenol	ND	2500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>5900</b>	500	"	"	"	"	"	"
Phenol	ND	500	"	"	"	"	"	"

<b>Pyrene</b>	<b>3900</b>	<b>500</b>	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	2500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	500	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		69.9 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		74.1 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		78.3 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		91.7 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		81.1 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		68.9 %	18-137	"	"	"	"	"

TP-11 S-21 (K306446-19) Soil Sampled: 06/18/03 13:43 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
Anthracene	ND	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
Benz (a) anthracene	ND	100	"	"	"	"	"	"
Benzo (a) pyrene	ND	100	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>110</b>	100	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
<b>Chrysene</b>	<b>270</b>	100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>110</b>	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>100</b>	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
<b>Pyrene</b>	<b>150</b>	100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		64.9 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		66.9 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.5 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		68.0 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		68.2 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		84.5 %	18-137	"	"	"	"	"

TP-12 S-22 (K306446-20) Soil Sampled: 06/18/03 14:45 Received: 06/19/03 10:55

Acenaphthene	ND	73	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	73	"	"	"	"	"	"
Aniline	ND	73	"	"	"	"	"	"
Anthracene	ND	73	"	"	"	"	"	"
Benzoic acid	ND	360	"	"	"	"	"	"
Benz (a) anthracene	ND	73	"	"	"	"	"	"
Benzo (a) pyrene	ND	73	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	73	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	73	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	73	"	"	"	"	"	"
Benzyl alcohol	ND	73	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	73	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	73	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	73	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	240	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	73	"	"	"	"	"	"
Butyl benzyl phthalate	ND	73	"	"	"	"	"	"
4-Chloroaniline	ND	73	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	73	"	"	"	"	"	"
2-Chloronaphthalene	ND	73	"	"	"	"	"	"
2-Chlorophenol	ND	73	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	73	"	"	"	"	"	"
Chrysene	ND	73	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	73	"	"	"	"	"	"
Dibenzofuran	ND	73	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	73	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	73	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	73	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	360	"	"	"	"	"	"
2,4-Dichlorophenol	ND	73	"	"	"	"	"	"
Diethyl phthalate	ND	73	"	"	"	"	"	"
2,4-Dimethylphenol	ND	73	"	"	"	"	"	"
Dimethyl phthalate	ND	73	"	"	"	"	"	"
Di-n-butyl phthalate	ND	240	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	360	"	"	"	"	"	"
2,4-Dinitrophenol	ND	360	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	73	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	73	"	"	"	"	"	"
Di-n-octyl phthalate	ND	73	"	"	"	"	"	"
Fluoranthene	ND	73	"	"	"	"	"	"
Fluorene	ND	73	"	"	"	"	"	"
Hexachlorobenzene	ND	73	"	"	"	"	"	"
Hexachlorobutadiene	ND	73	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	73	"	"	"	"	"	"
Hexachloroethane	ND	73	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	73	"	"	"	"	"	"
Isophorone	ND	73	"	"	"	"	"	"
2-Methylnaphthalene	ND	73	"	"	"	"	"	"
2-Methylphenol	ND	73	"	"	"	"	"	"
3,4-Methylphenol	ND	73	"	"	"	"	"	"
Naphthalene	ND	73	"	"	"	"	"	"
2-Nitroaniline	ND	360	"	"	"	"	"	"
3-Nitroaniline	ND	360	"	"	"	"	"	"
4-Nitroaniline	ND	360	"	"	"	"	"	"
Nitrobenzene	ND	73	"	"	"	"	"	"
2-Nitrophenol	ND	73	"	"	"	"	"	"
4-Nitrophenol	ND	360	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	73	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	73	"	"	"	"	"	"
Pentachlorophenol	ND	360	"	"	"	"	"	"
Phenanthrene	ND	73	"	"	"	"	"	"
Phenol	ND	73	"	"	"	"	"	"
Pyrene	ND	73	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	73	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	360	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	73	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		66.9 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		67.2 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		72.0 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		72.5 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		71.4 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		82.5 %	18-137	"	"	"	"	"



TP-13 S-23 (K306446-21) Soil Sampled: 06/18/03 14:57 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
Anthracene	ND	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
Benz (a) anthracene	ND	100	"	"	"	"	"	"
Benzo (a) pyrene	ND	100	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
Chrysene	ND	100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
Fluoranthene	ND	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
Phenanthrene	ND	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
Pyrene	ND	100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		70.5 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		70.5 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		77.7 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		79.2 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		82.6 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		84.7 %	18-137	"	"	"	"	"

TP-13 S-24 (K306446-22) Soil Sampled: 06/18/03 14:59 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
Anthracene	ND	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
Benz (a) anthracene	ND	100	"	"	"	"	"	"
Benzo (a) pyrene	ND	100	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
Chrysene	ND	100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
Fluoranthene	ND	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
Phenanthrene	ND	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
Pyrene	ND	100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		75.8 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		74.7 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		83.3 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		86.4 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		83.1 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		85.4 %	18-137	"	"	"	"	"

TP-14 S-25 (K306446-23) Soil Sampled: 06/18/03 15:20 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
Anthracene	ND	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
Benz (a) anthracene	ND	100	"	"	"	"	"	"
Benzo (a) pyrene	ND	100	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
Chrysene	ND	100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
Fluoranthene	ND	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
Phenanthrene	ND	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
Pyrene	ND	100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		86.6 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		86.1 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		92.8 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		93.8 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		92.3 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		103 %	18-137	"	"	"	"	"

TP-14 S-26 (K306446-24) Soil Sampled: 06/18/03 15:22 Received: 06/19/03 10:55

Acenaphthene	ND	100	ug/kg dry	1	3062431	06/25/03	06/25/03	EPA 8270C
Acenaphthylene	ND	100	"	"	"	"	"	"
Aniline	ND	100	"	"	"	"	"	"
Anthracene	ND	100	"	"	"	"	"	"
Benzoic acid	ND	500	"	"	"	"	"	"
Benz (a) anthracene	ND	100	"	"	"	"	"	"
Benzo (a) pyrene	ND	100	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	100	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	100	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	100	"	"	"	"	"	"
Benzyl alcohol	ND	100	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	100	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	100	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	100	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	100	"	"	"	"	"	"
Butyl benzyl phthalate	ND	100	"	"	"	"	"	"
4-Chloroaniline	ND	100	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	100	"	"	"	"	"	"
2-Chloronaphthalene	ND	100	"	"	"	"	"	"
2-Chlorophenol	ND	100	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	100	"	"	"	"	"	"
Chrysene	ND	100	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"
Dibenzofuran	ND	100	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	500	"	"	"	"	"	"
2,4-Dichlorophenol	ND	100	"	"	"	"	"	"
Diethyl phthalate	ND	100	"	"	"	"	"	"
2,4-Dimethylphenol	ND	100	"	"	"	"	"	"
Dimethyl phthalate	ND	100	"	"	"	"	"	"
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	500	"	"	"	"	"	"
2,4-Dinitrophenol	ND	500	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"
Di-n-octyl phthalate	ND	100	"	"	"	"	"	"
Fluoranthene	ND	100	"	"	"	"	"	"
Fluorene	ND	100	"	"	"	"	"	"
Hexachlorobenzene	ND	100	"	"	"	"	"	"
Hexachlorobutadiene	ND	100	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"
Hexachloroethane	ND	100	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"
Isophorone	ND	100	"	"	"	"	"	"
2-Methylnaphthalene	ND	100	"	"	"	"	"	"
2-Methylphenol	ND	100	"	"	"	"	"	"
3,4-Methylphenol	ND	100	"	"	"	"	"	"
Naphthalene	ND	100	"	"	"	"	"	"
2-Nitroaniline	ND	500	"	"	"	"	"	"
3-Nitroaniline	ND	500	"	"	"	"	"	"
4-Nitroaniline	ND	500	"	"	"	"	"	"
Nitrobenzene	ND	100	"	"	"	"	"	"
2-Nitrophenol	ND	100	"	"	"	"	"	"
4-Nitrophenol	ND	500	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	100	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	100	"	"	"	"	"	"
Pentachlorophenol	ND	500	"	"	"	"	"	"
Phenanthrene	ND	100	"	"	"	"	"	"
Phenol	ND	100	"	"	"	"	"	"
Pyrene	ND	100	"	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	500	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		78.2 %	25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		76.6 %	24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		86.5 %	23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		89.6 %	30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		84.4 %	19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		83.4 %	18-137	"	"	"	"	"



**Physical Parameters by APHA/ASTM/EPA Methods  
GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 S-1 (K306446-01) Soil</b>	<b>Sampled: 06/17/03 09:30</b>	<b>Received: 06/19/03 10:55</b>							
<b>% Solids</b>	<b>86.4</b>	<b>0.01 % by Weight</b>		<b>1</b>	<b>3062506</b>	<b>06/25/03</b>	<b>06/25/03</b>	<b>EPA 160.3</b>	
<b>TP-1 S-2 (K306446-02) Soil</b>	<b>Sampled: 06/17/03 09:32</b>	<b>Received: 06/19/03 10:55</b>							
<b>% Solids</b>	<b>85.2</b>	<b>0.01 % by Weight</b>		<b>1</b>	<b>3062506</b>	<b>06/25/03</b>	<b>06/25/03</b>	<b>EPA 160.3</b>	
<b>TP-2 S-3 (K306446-03) Soil</b>	<b>Sampled: 06/17/03 10:02</b>	<b>Received: 06/19/03 10:55</b>							
<b>% Solids</b>	<b>86.7</b>	<b>0.01 % by Weight</b>		<b>1</b>	<b>3062506</b>	<b>06/25/03</b>	<b>06/25/03</b>	<b>EPA 160.3</b>	
<b>TP-3 S-4 (K306446-04) Soil</b>	<b>Sampled: 06/17/03 11:08</b>	<b>Received: 06/19/03 10:55</b>							
<b>% Solids</b>	<b>85.7</b>	<b>0.01 % by Weight</b>		<b>1</b>	<b>3062506</b>	<b>06/25/03</b>	<b>06/25/03</b>	<b>EPA 160.3</b>	

TP-3 S-5 (K306446-05) Soil Sampled: 06/17/03 11:14 Received: 06/19/03 10:55

% Solids	82.1	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-4 S-7 (K306446-06) Soil Sampled: 06/17/03 12:54 Received: 06/19/03 10:55

% Solids	77.4	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-5 S-8 (K306446-07) Soil Sampled: 06/17/03 13:35 Received: 06/19/03 10:55

% Solids	83.8	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-5 S-9 (K306446-08) Soil Sampled: 06/17/03 13:37 Received: 06/19/03 10:55

% Solids	84.8	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-6 S-10 (K306446-09) Soil Sampled: 06/17/03 14:10 Received: 06/19/03 10:55

% Solids	77.3	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-6 S-11 (K306446-10) Soil Sampled: 06/17/03 14:14 Received: 06/19/03 10:55

% Solids	80.3	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-7 S-12 (K306446-11) Soil Sampled: 06/17/03 14:45 Received: 06/19/03 10:55

% Solids	87.5	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-7 S-13 (K306446-12) Soil Sampled: 06/17/03 14:46 Received: 06/19/03 10:55

% Solids	86.4	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-8 S-14 (K306446-13) Soil Sampled: 06/18/03 10:23 Received: 06/19/03 10:55

% Solids	83.4	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-8 S-15 (K306446-14) Soil Sampled: 06/18/03 10:25 Received: 06/19/03 10:55

% Solids	84.8	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-9 S-17 (K306446-15) Soil Sampled: 06/18/03 11:18 Received: 06/19/03 10:55

% Solids	83.2	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-10 S-18 (K306446-16) Soil Sampled: 06/18/03 12:11 Received: 06/19/03 10:55

% Solids	84.8	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-10 S-19 (K306446-17) Soil Sampled: 06/18/03 12:14 Received: 06/19/03 10:55

% Solids	81.0	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-11 S-20 (K306446-18) Soil Sampled: 06/18/03 13:41 Received: 06/19/03 10:55

% Solids	91.8	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-11 S-21 (K306446-19) Soil Sampled: 06/18/03 13:43 Received: 06/19/03 10:55

% Solids	82.3	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-12 S-22 (K306446-20) Soil Sampled: 06/18/03 14:45 Received: 06/19/03 10:55

% Solids	87.8	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-13 S-23 (K306446-21) Soil Sampled: 06/18/03 14:57 Received: 06/19/03 10:55

% Solids	82.6	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-13 S-24 (K306446-22) Soil Sampled: 06/18/03 14:59 Received: 06/19/03 10:55

% Solids	83.5	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-14 S-25 (K306446-23) Soil Sampled: 06/18/03 15:20 Received: 06/19/03 10:55

% Solids	84.5	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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TP-14 S-26 (K306446-24) Soil Sampled: 06/18/03 15:22 Received: 06/19/03 10:55

% Solids	86.3	0.01 % by Weight	1	3062506	06/25/03	06/25/03	EPA 160.3
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## Notes and Definitions

A-01	High surrogate recovery associated with the dilution/matrix of the sample.
DILN	Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
G4	The laboratory control spike recoveries associated with this sample were below the laboratory's established acceptance criteria.
O3	One or more internal standard recoveries were above the method specified acceptance criteria.
O4	One or more surrogate recoveries were below the laboratory's established acceptance criteria.
O7	The reporting limits for this sample have been raised due to low sample weight, volume and/or weight to methanol volume ratio.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
3062314-BS1	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
3062314-BS1	PCB 8082	Decachlorobiphenyl	O4
3062314-BS1	PCB 8082	PCB-1016	G4
3062314-BS1	PCB 8082	PCB-1260	G4
3062314-BS1	PCB 8082	Tetrachloro-meta-xylene	O4
3062314-BS1	PCB 8082	PCB-1260	Exceeds lower control limit
3062314-BS1	PCB 8082	PCB-1016	Exceeds lower control limit
3062314-BS1	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
3062314-BS2	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
3062314-BS2	PCB 8082	Decachlorobiphenyl	O4
3062314-MS1	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
3062314-MS1	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
3062314-MS1	PCB 8082	Tetrachloro-meta-xylene	O4
3062314-MS1	PCB 8082	Decachlorobiphenyl	O4
3062314-MSD1	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
3062314-MSD1	PCB 8082	Decachlorobiphenyl	O4
K306446-01	PCB 8082	Decachlorobiphenyl	O4
K306446-01	PCB 8082	Tetrachloro-meta-xylene	O4
K306446-01	PCB 8082	PCB-1016	G4
K306446-01	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-01	PCB 8082	PCB-1260	G4
K306446-01	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
K306446-02	PCB 8082	PCB-1260	G4
K306446-02	PCB 8082	PCB-1016	G4
K306446-02	PCB 8082	Decachlorobiphenyl	O4
K306446-02	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-03	8270		DILN
K306446-03	Hg Soil 7471	Mercury	DILN
K306446-03	PCB 8082	Decachlorobiphenyl	O4
K306446-03	PCB 8082	PCB-1016	G4
K306446-03	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-03	PCB 8082	PCB-1260	G4
K306446-04	8270		DILN
K306446-04	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-04	PCB 8082	Decachlorobiphenyl	O4
K306446-05	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-05	PCB 8082	Decachlorobiphenyl	O4
K306446-05	PCB 8082	PCB-1016	G4
K306446-05	PCB 8082	PCB-1260	G4
K306446-06	PCB 8082	PCB-1260	G4
K306446-06	PCB 8082	Tetrachloro-meta-xylene	O4
K306446-06	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-06	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
K306446-06	PCB 8082	PCB-1016	G4
K306446-06	PCB 8082	Decachlorobiphenyl	O4
K306446-07	8270		DILN
K306446-07	Hg Soil 7471	Mercury	DILN
K306446-07	PCB 8082	Tetrachloro-meta-xylene	A-01
K306446-07	PCB 8082		DILN
K306446-07	PCB 8082	Tetrachloro-meta-xylene	Exceeds upper control limit
K306446-08	8270		DILN
K306446-08	PCB 8082	PCB-1260	G4
K306446-08	PCB 8082	PCB-1016	G4
K306446-08	PCB 8082	Decachlorobiphenyl	O4
K306446-08	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-08	PCB 8082		DILN
K306446-09	8270		DILN
K306446-09	Hg Soil 7471	Mercury	DILN
K306446-09	PCB 8082	PCB-1016	G4
K306446-09	PCB 8082	PCB-1260	G4
K306446-09	PCB 8082		DILN
K306446-10	Hg Soil 7471	Mercury	DILN
K306446-10	PCB 8082	PCB-1260	G4
K306446-10	PCB 8082		DILN
K306446-10	PCB 8082	PCB-1016	G4

K306446-11	8270		DILN
K306446-11	Hg Soil 7471	Mercury	DILN
K306446-11	PCB 8082	PCB-1260	G4
K306446-11	PCB 8082	Decachlorobiphenyl	O4
K306446-11	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-11	PCB 8082	PCB-1016	G4
K306446-12	8270		DILN
K306446-12	PCB 8082		DILN
K306446-12	PCB 8082	PCB-1016	G4
K306446-12	PCB 8082	PCB-1260	G4
K306446-13	PCB 8082	Decachlorobiphenyl	O4
K306446-13	PCB 8082	PCB-1016	G4
K306446-13	PCB 8082	PCB-1260	G4
K306446-13	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-14	8270		DILN
K306446-14	PCB 8082		DILN
K306446-14	PCB 8082	PCB-1260	G4
K306446-14	PCB 8082		O7
K306446-14	PCB 8082	PCB-1016	G4
K306446-15	8270		DILN
K306446-15	PCB 8082	Decachlorobiphenyl	O4
K306446-15	PCB 8082	PCB-1260	DILN
K306446-15	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-16	8270		DILN
K306446-16	Hg Soil 7471	Mercury	DILN
K306446-16	PCB 8082		DILN
K306446-16	PCB 8082	Decachlorobiphenyl	O4
K306446-16	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-17	8270	Benzo (g,h,i) perylene	O3
K306446-17	8270	Dibenz (a,h) anthracene	O3
K306446-17	8270	Benzo (k) fluoranthene	O3
K306446-17	8270	Benzo (b) fluoranthene	O3
K306446-17	8270	Benzo (a) pyrene	O3
K306446-17	PCB 8082	Decachlorobiphenyl	O4
K306446-17	PCB 8082	Tetrachloro-meta-xylene	O4
K306446-17	PCB 8082	PCB-1016	G4
K306446-17	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-17	PCB 8082	PCB-1260	G4
K306446-17	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
K306446-18	8270		DILN
K306446-18	PCB 8082	PCB-1260	G4
K306446-18	PCB 8082	PCB-1016	G4
K306446-18	PCB 8082	Decachlorobiphenyl	O4
K306446-18	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-19	PCB 8082	Decachlorobiphenyl	O4
K306446-19	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-20	PCB 8082	Tetrachloro-meta-xylene	O4
K306446-20	PCB 8082	Decachlorobiphenyl	O4
K306446-20	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
K306446-20	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-21	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-21	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
K306446-21	PCB 8082	Decachlorobiphenyl	O4
K306446-21	PCB 8082	Tetrachloro-meta-xylene	O4
K306446-22	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-22	PCB 8082	Decachlorobiphenyl	O4
K306446-23	PCB 8082	Tetrachloro-meta-xylene	Exceeds lower control limit
K306446-23	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-23	PCB 8082	Tetrachloro-meta-xylene	O4
K306446-23	PCB 8082	Decachlorobiphenyl	O4
K306446-24	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-24	PCB 8082	Decachlorobiphenyl	O4
K306446-24	PCB 8082	Decachlorobiphenyl	Exceeds lower control limit
K306446-24	PCB 8082	Decachlorobiphenyl	O4





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15 October 2003

RT ENVIRONMENTAL  
Pete Malik  
215 W. Church Rd.  
King of Prussia, PA 19406

RE: Cramps Shipyard

Enclosed are the results of analyses for samples received by the laboratory on 10/07/03 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "AS", with a long horizontal flourish extending to the right.

Andrea Speck  
Project Manager



1008 W. Ninth Avenue • King of Prussia, Pennsylvania 19406

(610) 337-9992 FAX (610) 337-9939

RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-02-01  
Project Manager: Pete Malik

Reported:  
10/15/03 14:26

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP - 1 S - 1	K310147-01	Soil	10/02/03 08:53	10/07/03 09:30
TP - 2 S - 2	K310147-02	Soil	10/02/03 09:05	10/07/03 09:30
TP - 3 S - 3	K310147-03	Soil	10/02/03 09:20	10/07/03 09:30
TP - 4 S - 4	K310147-04	Soil	10/02/03 09:33	10/07/03 09:30
TP - 5 S - 5	K310147-05	Soil	10/02/03 09:46	10/07/03 09:30
TP - 6 S - 6	K310147-06	Soil	10/02/03 09:59	10/07/03 09:30
TP - 7 S - 7	K310147-07	Soil	10/02/03 10:12	10/07/03 09:30
TP - 8 S - 8	K310147-08	Soil	10/02/03 10:24	10/07/03 09:30
TP - 9 S - 9	K310147-09	Soil	10/02/03 11:09	10/07/03 09:30
TP - 10 S - 10	K310147-10	Soil	10/02/03 11:16	10/07/03 09:30
TP - 13 S - 13	K310147-11	Soil	10/02/03 11:40	10/07/03 09:30
TP - 14 S - 14	K310147-12	Soil	10/02/03 11:46	10/07/03 09:30
TP - 15 S - 15	K310147-13	Soil	10/02/03 11:55	10/07/03 09:30
TP - 16 S - 16	K310147-14	Soil	10/02/03 12:00	10/07/03 09:30
TP - 17 S - 17	K310147-15	Soil	10/02/03 13:50	10/07/03 09:30
TP - 18 S - 18	K310147-16	Soil	10/02/03 14:33	10/07/03 09:30
TP - 19 S - 19	K310147-17	Soil	10/03/03 07:30	10/07/03 09:30
TP - 20 S - 20	K310147-18	Soil	10/03/03 08:06	10/07/03 09:30
TP - 21 S - 21	K310147-19	Soil	10/03/03 08:54	10/07/03 09:30
TP - 22 S - 22	K310147-20	Soil	10/03/03 09:49	10/07/03 09:30
TP - 11 S - 11	K310147-21	Soil	10/02/03 11:24	10/07/03 09:30
TP - 12 S - 12	K310147-22	Soil	10/02/03 11:32	10/07/03 09:30
TP - 23 S - 23	K310147-23	Soil	10/03/03 10:46	10/07/03 09:30
TP - 24 S - 24	K310147-24	Soil	10/03/03 11:07	10/07/03 09:30
TP - 25 S - 25	K310147-25	Soil	10/03/03 11:54	10/07/03 09:30
TP - 26 S - 26	K310147-26	Soil	10/03/03 12:45	10/07/03 09:30
TP - 27 S - 27	K310147-27	Soil	10/03/03 12:50	10/07/03 09:30
TP - 28 S - 28	K310147-28	Soil	10/03/03 12:59	10/07/03 09:30
TP - 29 S - 29	K310147-29	Soil	10/03/03 13:50	10/07/03 09:30
TP - 30 S - 30	K310147-30	Soil	10/03/03 14:15	10/07/03 09:30

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Andrea Speck, Project Manager

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	<b>Reported:</b> 10/15/03 14:26
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP - 31 S - 31	K310147-31	Soil	10/03/03 14:40	10/07/03 09:30
TP - 32 S - 32	K310147-32	Soil	10/06/03 07:20	10/07/03 09:30
TP - 33 S - 33	K310147-33	Soil	10/06/03 08:22	10/07/03 09:30
TP - 34 S - 34	K310147-34	Soil	10/06/03 08:56	10/07/03 09:30
TP - 35 S - 35	K310147-35	Soil	10/06/03 09:39	10/07/03 09:30
TP - 36 S - 36	K310147-36	Soil	10/06/03 10:22	10/07/03 09:30
TP - 37 S - 37	K310147-37	Soil	10/06/03 11:10	10/07/03 09:30
TP - 38 S - 38	K310147-38	Soil	10/06/03 11:41	10/07/03 09:30
TP - 39 S - 39	K310147-39	Soil	10/06/03 12:34	10/07/03 09:30
TP - 40 S - 40	K310147-40	Soil	10/06/03 13:25	10/07/03 09:30

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	Reported: 10/15/03 14:26
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**Total Metals by EPA 6000/7000 Series Methods**

**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 1 S - 1 (K310147-01) Soil Sampled: 10/02/03 08:53 Received: 10/07/03 09:30</b>									
Mercury	0.764	0.200	mg/kg dry	2	3100908	10/09/03	10/10/03	EPA 7471A	DILN
Lead	330	5.0	"	1	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 2 S - 2 (K310147-02) Soil Sampled: 10/02/03 09:05 Received: 10/07/03 09:30</b>									
Mercury	0.438	0.100	mg/kg dry	1	3100908	10/09/03	10/10/03	EPA 7471A	
Lead	110	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 3 S - 3 (K310147-03) Soil Sampled: 10/02/03 09:20 Received: 10/07/03 09:30</b>									
Mercury	0.344	0.100	mg/kg dry	1	3100908	10/09/03	10/10/03	EPA 7471A	
Lead	330	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 4 S - 4 (K310147-04) Soil Sampled: 10/02/03 09:33 Received: 10/07/03 09:30</b>									
Mercury	0.231	0.100	mg/kg dry	1	3100908	10/09/03	10/10/03	EPA 7471A	
Lead	150	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 5 S - 5 (K310147-05) Soil Sampled: 10/02/03 09:46 Received: 10/07/03 09:30</b>									
Mercury	0.376	0.100	mg/kg dry	1	3100908	10/09/03	10/10/03	EPA 7471A	
Lead	160	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 6 S - 6 (K310147-06) Soil Sampled: 10/02/03 09:59 Received: 10/07/03 09:30</b>									
Mercury	0.463	0.100	mg/kg dry	1	3100908	10/09/03	10/10/03	EPA 7471A	
Lead	400	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 7 S - 7 (K310147-07) Soil Sampled: 10/02/03 10:12 Received: 10/07/03 09:30</b>									
Mercury	0.163	0.100	mg/kg dry	1	3100908	10/09/03	10/10/03	EPA 7471A	
Lead	150	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	Reported: 10/15/03 14:26
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**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 8 S - 8 (K310147-08) Soil Sampled: 10/02/03 10:24 Received: 10/07/03 09:30</b>									
Mercury	0.452	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	480	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 9 S - 9 (K310147-09) Soil Sampled: 10/02/03 11:09 Received: 10/07/03 09:30</b>									
Mercury	0.434	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	210	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 10 S - 10 (K310147-10) Soil Sampled: 10/02/03 11:16 Received: 10/07/03 09:30</b>									
Mercury	0.953	0.200	mg/kg dry	2	3101310	10/13/03	10/14/03	EPA 7471A	DLN
Lead	450	5.0	"	1	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 13 S - 13 (K310147-11) Soil Sampled: 10/02/03 11:40 Received: 10/07/03 09:30</b>									
Mercury	0.381	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	230	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 14 S - 14 (K310147-12) Soil Sampled: 10/02/03 11:46 Received: 10/07/03 09:30</b>									
Mercury	0.517	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	250	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 15 S - 15 (K310147-13) Soil Sampled: 10/02/03 11:55 Received: 10/07/03 09:30</b>									
Mercury	0.443	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	370	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 16 S - 16 (K310147-14) Soil Sampled: 10/02/03 12:00 Received: 10/07/03 09:30</b>									
Mercury	ND	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	230	5.0	"	"	3101004	10/10/03	10/10/03	EPA 6010B	

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Andrea Speck, Project Manager



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RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-02-01  
Project Manager: Pete Malik

Reported:  
10/15/03 14:26

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 17 S - 17 (K310147-15) Soil</b> Sampled: 10/02/03 13:50 Received: 10/07/03 09:30									
Mercury	0.324	0.128	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	480	6.4	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 18 S - 18 (K310147-16) Soil</b> Sampled: 10/02/03 14:33 Received: 10/07/03 09:30									
Mercury	0.841	0.127	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	530	6.4	"	"	3101004	10/10/03	10/10/03	EPA 6010B	
<b>TP - 19 S - 19 (K310147-17) Soil</b> Sampled: 10/03/03 07:30 Received: 10/07/03 09:30									
Lead	1200	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 20 S - 20 (K310147-18) Soil</b> Sampled: 10/03/03 08:06 Received: 10/07/03 09:30									
Lead	510	6.5	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 21 S - 21 (K310147-19) Soil</b> Sampled: 10/03/03 08:54 Received: 10/07/03 09:30									
Lead	490	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 22 S - 22 (K310147-20) Soil</b> Sampled: 10/03/03 09:49 Received: 10/07/03 09:30									
Lead	190	6.6	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 11 S - 11 (K310147-21) Soil</b> Sampled: 10/02/03 11:24 Received: 10/07/03 09:30									
Mercury	0.178	0.100	mg/kg dry	1	3101310	10/13/03	10/14/03	EPA 7471A	
Lead	140	5.0	"	"	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 12 S - 12 (K310147-22) Soil</b> Sampled: 10/02/03 11:32 Received: 10/07/03 09:30									
Mercury	1.44	0.200	mg/kg dry	2	3101310	10/13/03	10/14/03	EPA 7471A	DILN
Lead	340	5.0	"	1	3101005	10/10/03	10/13/03	EPA 6010B	

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Andrea Speck, Project Manager

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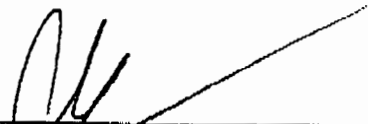
RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	Reported: 10/15/03 14:26
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**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 23 S - 23 (K310147-23) Soil</b> Sampled: 10/03/03 10:46 Received: 10/07/03 09:30									
Lead	160	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 24 S - 24 (K310147-24) Soil</b> Sampled: 10/03/03 11:07 Received: 10/07/03 09:30									
Lead	560	6.3	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 25 S - 25 (K310147-25) Soil</b> Sampled: 10/03/03 11:54 Received: 10/07/03 09:30									
Lead	260	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 26 S - 26 (K310147-26) Soil</b> Sampled: 10/03/03 12:45 Received: 10/07/03 09:30									
Lead	210	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 27 S - 27 (K310147-27) Soil</b> Sampled: 10/03/03 12:50 Received: 10/07/03 09:30									
Lead	180	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 28 S - 28 (K310147-28) Soil</b> Sampled: 10/03/03 12:59 Received: 10/07/03 09:30									
Lead	77	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 29 S - 29 (K310147-29) Soil</b> Sampled: 10/03/03 13:50 Received: 10/07/03 09:30									
Lead	170	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 30 S - 30 (K310147-30) Soil</b> Sampled: 10/03/03 14:15 Received: 10/07/03 09:30									
Lead	250	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 31 S - 31 (K310147-31) Soil</b> Sampled: 10/03/03 14:40 Received: 10/07/03 09:30									
Lead	470	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	

GLA Laboratories

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\_\_\_\_\_  
Andrea Speck, Project Manager



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RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-02-01  
Project Manager: Pete Malik


Reported:  
10/15/03 14:26

**Total Metals by EPA 6000/7000 Series Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 32 S - 32 (K310147-32) Soil</b> <b>Sampled: 10/06/03 07:20</b> <b>Received: 10/07/03 09:30</b>									
Lead	120	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 33 S - 33 (K310147-33) Soil</b> <b>Sampled: 10/06/03 08:22</b> <b>Received: 10/07/03 09:30</b>									
Lead	520	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 34 S - 34 (K310147-34) Soil</b> <b>Sampled: 10/06/03 08:56</b> <b>Received: 10/07/03 09:30</b>									
Lead	2700	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 35 S - 35 (K310147-35) Soil</b> <b>Sampled: 10/06/03 09:39</b> <b>Received: 10/07/03 09:30</b>									
Lead	430	6.4	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 36 S - 36 (K310147-36) Soil</b> <b>Sampled: 10/06/03 10:22</b> <b>Received: 10/07/03 09:30</b>									
Lead	1700	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 37 S - 37 (K310147-37) Soil</b> <b>Sampled: 10/06/03 11:10</b> <b>Received: 10/07/03 09:30</b>									
Lead	88	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 38 S - 38 (K310147-38) Soil</b> <b>Sampled: 10/06/03 11:41</b> <b>Received: 10/07/03 09:30</b>									
Lead	6300	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 39 S - 39 (K310147-39) Soil</b> <b>Sampled: 10/06/03 12:34</b> <b>Received: 10/07/03 09:30</b>									
Lead	240	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	
<b>TP - 40 S - 40 (K310147-40) Soil</b> <b>Sampled: 10/06/03 13:25</b> <b>Received: 10/07/03 09:30</b>									
Lead	530	5.0	mg/kg dry	1	3101005	10/10/03	10/13/03	EPA 6010B	

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Page 7 of 13





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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	Reported: 10/15/03 14:26
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**Physical Parameters by APHA/ASTM/EPA Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 1 S - 1 (K310147-01) Soil</b>	Sampled: 10/02/03 08:53		Received: 10/07/03 09:30						
% Solids	85.8	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 2 S - 2 (K310147-02) Soil</b>	Sampled: 10/02/03 09:05		Received: 10/07/03 09:30						
% Solids	86.8	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 3 S - 3 (K310147-03) Soil</b>	Sampled: 10/02/03 09:20		Received: 10/07/03 09:30						
% Solids	85.9	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 4 S - 4 (K310147-04) Soil</b>	Sampled: 10/02/03 09:33		Received: 10/07/03 09:30						
% Solids	87.2	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 5 S - 5 (K310147-05) Soil</b>	Sampled: 10/02/03 09:46		Received: 10/07/03 09:30						
% Solids	87.2	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 6 S - 6 (K310147-06) Soil</b>	Sampled: 10/02/03 09:59		Received: 10/07/03 09:30						
% Solids	81.6	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 7 S - 7 (K310147-07) Soil</b>	Sampled: 10/02/03 10:12		Received: 10/07/03 09:30						
% Solids	83.0	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 8 S - 8 (K310147-08) Soil</b>	Sampled: 10/02/03 10:24		Received: 10/07/03 09:30						
% Solids	89.0	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 9 S - 9 (K310147-09) Soil</b>	Sampled: 10/02/03 11:09		Received: 10/07/03 09:30						
% Solids	83.8	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	

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RT ENVIRONMENTAL  
215 W. Church Rd.  
King of Prussia PA, 19406

Project: Cramps Shipyard  
Project Number: 70431-02-01  
Project Manager: Pete Malik

Reported:  
10/15/03 14:26

**Physical Parameters by APHA/ASTM/EPA Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 10 S - 10 (K310147-10) Soil</b> Sampled: 10/02/03 11:16 Received: 10/07/03 09:30									
% Solids	81.1	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 13 S - 13 (K310147-11) Soil</b> Sampled: 10/02/03 11:40 Received: 10/07/03 09:30									
% Solids	84.5	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 14 S - 14 (K310147-12) Soil</b> Sampled: 10/02/03 11:46 Received: 10/07/03 09:30									
% Solids	83.2	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 15 S - 15 (K310147-13) Soil</b> Sampled: 10/02/03 11:55 Received: 10/07/03 09:30									
% Solids	87.9	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 16 S - 16 (K310147-14) Soil</b> Sampled: 10/02/03 12:00 Received: 10/07/03 09:30									
% Solids	86.4	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 17 S - 17 (K310147-15) Soil</b> Sampled: 10/02/03 13:50 Received: 10/07/03 09:30									
% Solids	78.1	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 18 S - 18 (K310147-16) Soil</b> Sampled: 10/02/03 14:33 Received: 10/07/03 09:30									
% Solids	78.5	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 19 S - 19 (K310147-17) Soil</b> Sampled: 10/03/03 07:30 Received: 10/07/03 09:30									
% Solids	81.4	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 20 S - 20 (K310147-18) Soil</b> Sampled: 10/03/03 08:06 Received: 10/07/03 09:30									
% Solids	77.1	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	Reported: 10/15/03 14:26
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**Physical Parameters by APHA/ASTM/EPA Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 21 S - 21 (K310147-19) Soil</b>	Sampled: 10/03/03 08:54		Received: 10/07/03 09:30						
% Solids	80.7	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 22 S - 22 (K310147-20) Soil</b>	Sampled: 10/03/03 09:49		Received: 10/07/03 09:30						
% Solids	75.9	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 11 S - 11 (K310147-21) Soil</b>	Sampled: 10/02/03 11:24		Received: 10/07/03 09:30						
% Solids	82.9	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 12 S - 12 (K310147-22) Soil</b>	Sampled: 10/02/03 11:32		Received: 10/07/03 09:30						
% Solids	83.4	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 23 S - 23 (K310147-23) Soil</b>	Sampled: 10/03/03 10:46		Received: 10/07/03 09:30						
% Solids	80.1	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 24 S - 24 (K310147-24) Soil</b>	Sampled: 10/03/03 11:07		Received: 10/07/03 09:30						
% Solids	79.4	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 25 S - 25 (K310147-25) Soil</b>	Sampled: 10/03/03 11:54		Received: 10/07/03 09:30						
% Solids	86.2	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 26 S - 26 (K310147-26) Soil</b>	Sampled: 10/03/03 12:45		Received: 10/07/03 09:30						
% Solids	86.1	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 27 S - 27 (K310147-27) Soil</b>	Sampled: 10/03/03 12:50		Received: 10/07/03 09:30						
% Solids	90.4	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	Reported: 10/15/03 14:26
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**Physical Parameters by APHA/ASTM/EPA Methods**  
**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 28 S - 28 (K310147-28) Soil</b>	Sampled: 10/03/03 12:59		Received: 10/07/03 09:30						
% Solids	89.5	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 29 S - 29 (K310147-29) Soil</b>	Sampled: 10/03/03 13:50		Received: 10/07/03 09:30						
% Solids	83.5	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 30 S - 30 (K310147-30) Soil</b>	Sampled: 10/03/03 14:15		Received: 10/07/03 09:30						
% Solids	85.3	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 31 S - 31 (K310147-31) Soil</b>	Sampled: 10/03/03 14:40		Received: 10/07/03 09:30						
% Solids	87.3	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 32 S - 32 (K310147-32) Soil</b>	Sampled: 10/06/03 07:20		Received: 10/07/03 09:30						
% Solids	83.2	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 33 S - 33 (K310147-33) Soil</b>	Sampled: 10/06/03 08:22		Received: 10/07/03 09:30						
% Solids	85.2	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 34 S - 34 (K310147-34) Soil</b>	Sampled: 10/06/03 08:56		Received: 10/07/03 09:30						
% Solids	82.5	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 35 S - 35 (K310147-35) Soil</b>	Sampled: 10/06/03 09:39		Received: 10/07/03 09:30						
% Solids	78.0	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 36 S - 36 (K310147-36) Soil</b>	Sampled: 10/06/03 10:22		Received: 10/07/03 09:30						
% Solids	82.9	0.01 % by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pctc Malik	Reported: 10/15/03 14:26
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**Physical Parameters by APHA/ASTM/EPA Methods**

**GLA Laboratories**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP - 37 S - 37 (K310147-37) Soil</b> <b>Sampled: 10/06/03 11:10</b> <b>Received: 10/07/03 09:30</b>									
% Solids	85.6	0.01% by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 38 S - 38 (K310147-38) Soil</b> <b>Sampled: 10/06/03 11:41</b> <b>Received: 10/07/03 09:30</b>									
% Solids	83.6	0.01% by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 39 S - 39 (K310147-39) Soil</b> <b>Sampled: 10/06/03 12:34</b> <b>Received: 10/07/03 09:30</b>									
% Solids	82.9	0.01% by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	
<b>TP - 40 S - 40 (K310147-40) Soil</b> <b>Sampled: 10/06/03 13:25</b> <b>Received: 10/07/03 09:30</b>									
% Solids	81.9	0.01% by Weight		1	3101305	10/13/03	10/13/03	EPA 160.3	

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RT ENVIRONMENTAL 215 W. Church Rd. King of Prussia PA, 19406	Project: Cramps Shipyard Project Number: 70431-02-01 Project Manager: Pete Malik	<b>Reported:</b> 10/15/03 14:26
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**Notes and Definitions**

- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: RT Environmental			Bill To: Same			TAT: <del>Standard</del> <b>5 DAY</b> 3 DAY 1 DAY											
Address: 215 W. Church Rd			Address:			4 DAY 2 DAY < 24 HRS.											
Ed. King of Prussia PA 19406			State & PR DEP			DATE RESULTS NEEDED:											
Report to: Pete Malik		Phone #: (610) 265-1570	Program:		Phone #: ( )	TEMPERATURE UPON RECEIPT: 0°C											
Fax #: ( )				Fax #: ( )	SHIPPING#:												
Project: Crompton Shipyard			# of Bottles Preservative Used			TOTAL # OF BOTTLES			ANALYSIS TYPE			SAMPLE CONTROL			LABORATORY ID NUMBER		
Sampler: PL																	
PO/Quote #: 70471-02-01			MeOH			Lead			CRACKED/BROKEN								
FIELD ID, LOCATION			H <sub>2</sub> SO <sub>4</sub>			Mercury			IMPROPERLY SEALED								
			HCl						GOOD CONDITION								
			HNO <sub>3</sub>														
			NaOH														
			NONE														
1 TP-1 S-1 6			DATE COLLECTED			TIME COLLECTED			SAMPLE MATRIX			LABORATORY ID NUMBER					
PID:			10/10/03			8:53			So.1			K310147-01					
2 TP-2 S-2 6						9:25						2					
PID:																	
3 TP-3 S-3 6						9:20						3					
PID:																	
4 TP-4 S-4 6						9:33						4					
PID:																	
5 TP-5 S-5 6						9:46						5					
PID:																	
6 TP-6 S-6 6						9:54						6					
PID:																	
7 TP-7 S-7 6						10:12						7					
PID:																	
8 TP-8 S-8 6						10:24						8					
PID:																	
9 TP-9 S-9 5						11:04						9					
PID:																	
10 TP-10 S-10 5						11:16						10					
PID:																	
RELINQUISHED		DATE	RECEIVED		DATE	RELINQUISHED		DATE	RECEIVED		DATE						
[Signature]		10/10/03	[Signature]		10/10/03												
		9:30			9:30												
RELINQUISHED		DATE	RECEIVED		DATE	RELINQUISHED		DATE	RECEIVED		DATE						
COMMENTS:											PAGE 1 OF 5						

OCT-15-2003 14:33  
 GLA LABORATORIES  
 610 337 9939 P.15



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

OCT-15-2003 14:33 GLA LABORATORIES 610 337 9939 P.16

Client: <b>RT Env</b>	Bill To: <b>Same</b>	TAT: <del>Standard</del> <del>5 DAY</del> 3 DAY 1 DAY 4 DAY 2 DAY < 24 HRS.
Address: <b>KOP</b>	Address:	DATE RESULTS NEEDED:
Report to: <b>P. Malik</b>	Phone #: <b>(610) 265-1510</b>	State & Program: <b>PA DEP</b>
Phone #: ( )	Fax #: ( )	Phone #: ( )
		Fax #: ( )
SHIPPING#:		TEMPERATURE UPON RECEIPT: <b>0C</b>

Project: <b>Crumphoy Shipyard</b>	Sampler: <b>PL</b>	PO/Quote #: <b>70471-02-01</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	Lead	Mercury	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
						MeOH	NH4SO4	HCl	HNO3	H2SO4	NaOH	NONE					CRACKED-BROKEN	IMPROPERLY SEALED	GOOD CONDITION		
1] TP-12 5-12 5	PID:		10/02/03	11:40	So. 1							1	1	X	X						12810147-11
2] TP-14 5-14 5	PID:			11:46								1	1	X	X						12
3] TP-15 5-15 5	PID:			11:55								1	1	X	X						13
4] TP-16 5-16 5	PID:			12:00								1	1	X	X						14
5] TP-17 5-17 8	PID:			11:50								1	1	X	X						15
6] TP-18 5-18 8	PID:			2:33								1	1	X	X						16
7] TP-19 5-19 8	PID:		10/06/03	7:30								1	1	X							17
8] TP-20 5-20 8	PID:		10/07/03	8:06								1	1	X							18
9] TP-21 5-21 8	PID:		10/08/03	8:54								1	1	X							19
10] TP-22 5-22 8	PID:		10/08/03	9:49								1	1	X							20

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	10/07/03	<i>[Signature]</i>	10/7/03				
	9:30		9:30				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS:

PAGE **2** OF **5**





# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

OCT-15-2003 14:34 GLA LABORATORIES 610 337 9939 P.17

Client: <b>RT ENV</b>		Bill To: <b>Same</b>		TAT: <del>Standard</del> <b>5 DAY</b> 3 DAY 1 DAY				
Address: <b>KOP</b>		Address:		4 DAY 2 DAY < 24 HRS.				
Report to: <b>P. Muliak</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:				
Phone #: ( ) Fax #: ( )		Phone #: ( ) Fax #: ( )		TEMPERATURE UPON RECEIPT: <b>0°C</b>				
Project: <b>Crumbs shipped</b>		SAMPLE MATRIX		SHIPPING#:				
Sampler: <b>PL</b>				# of Bottles Preservative Used				
PO/Quote #: <b>70471-02-01</b>		MeOH NaHSO4 HCl HNO3 H2SO4 NaOH NONE		TOTAL # OF BOTTLES				
FIELD ID, LOCATION				Lead Mercury		ANALYSIS TYPE		
		DATE COLLECTED		TIME COLLECTED				
		SAMPLE MATRIX		CRACKED-BROKEN IMPROPERLY SEALED GOOD CONDITION				
				LABORATORY ID NUMBER				
1	TP-11 S-11 5	10/02/03	11:24	S-11	1 1 X X	K310147-21		
2	TP-12 S-12 5	10/02/03	11:32	S-11	1 1 X X	22		
3	TP-23 S-23 8	10/03/02	10:46		1 1 X	23		
4	TP-24 S-24 8		11:57		1 1 X	24		
5	TP-25 S-25 9		11:54		1 1 X	25		
6	TP-26 S-26 9		12:45		1 1 X	26		
7	TP-27 S-27 9		12:50		1 1 X	27		
8	TP-28 S-28 9		12:54		1 1 X	28		
9	TP-29 S-29 9		1:50		1 1 X	29		
10	TP-30 S-30 9		2:15		1 1 X	30		
RELINQUISHED <i>[Signature]</i> 10/5/03 9:20			RECEIVED <i>[Signature]</i> 10/7/03 9:30		RELINQUISHED DATE TIME		RECEIVED DATE TIME	
RELINQUISHED DATE TIME			RECEIVED DATE TIME		RELINQUISHED DATE TIME		RECEIVED DATE TIME	
COMMENTS:						PAGE 3 OF 5		



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

OCT-15-2003 14:34 GLA LABORATORIES 610 337 9939 P.18

Client: <b>RT ENV</b>		Bill To: <b>Some</b>		TAT: <del>Standard</del> <b>6 DAY</b> 3 DAY 1 DAY												
Address: <b>150P</b>		Address:		4 DAY 2 DAY <24 HRS.												
Report to: <b>P. M. White</b>		State & Program: <b>PADCP</b>		DATE RESULTS NEEDED:												
Phone #: ( ) Fax #: ( )		Phone #: ( ) Fax #: ( )		TEMPERATURE UPON RECEIPT: <b>0°C</b>												
Project: <b>Cross Shipyard</b>		SHIPPING#:														
Sampler: <b>PL</b>																
PO/Quote #: <b>70431-02-01</b>																
<b>FIELD ID, LOCATION</b>																
ID	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
				MeOH	H <sub>2</sub> SO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	MeOH			NONE	CRACKED/BROKEN	IMPROPERLY SEALED		GOOD CONDITION
1	10/10/03	2:40	Soil						1	1	X				6310147-31	
2	10/10/03	7:20							1	1	X				32	
3		8:22							1	1	X				33	
4		8:56							1	1	X				34	
5		9:39							1	1	X				35	
6		10:22							1	1	X				36	
7		11:10							1	1	X				37	
8		11:41							1	1	X				38	
9		12:34							1	1	X				39	
10		1:25							1	1	X				40	
RELINQUISHED		10/10/03	RECEIVED	10/11/03	RELINQUISHED		DATE	RECEIVED	DATE		RECEIVED		DATE			
<i>[Signature]</i>		9:30	<i>[Signature]</i>	9:50			TIME		TIME		TIME		TIME			
RELINQUISHED		DATE	RECEIVED	DATE	RELINQUISHED		DATE	RECEIVED	DATE		RECEIVED		DATE			
		TIME		TIME			TIME		TIME		TIME		TIME			
COMMENTS:																
													PAGE	<b>4</b>	OF	<b>5</b>



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

OCT-15-2003 14:34

GLA LABORATORIES

610 337 9939

P.19

Client: <b>RT ENV</b>	Bill To: <b>Same</b>	TAT: <del>Standard</del> <b>ADA</b> 3 DAY 1 DAY 4 DAY 2 DAY < 24 HRS.
Address: <b>KOP</b>	Address:	DATE RESULTS NEEDED:
Report to: <b>P. Matile</b>	State & Program: <b>PA DEP</b>	TEMPERATURE UPON RECEIPT: <b>0°C</b>
Phone #: ( ) Fax #: ( )	Phone #: ( ) Fax #: ( )	SHIPPING#:

Project: <b>Crumm Shipyard</b>	Sampler: <b>PL</b>	PO/Quote #: <b>70471-02-01</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
						MCOH	NH4SO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED-BROKEN	IMPROPERLY SEALED		GOOD CONDITION
1] <b>TP-20 GW-1</b>	PID:		<b>10/02/03</b>	<b>8:25</b>	<b>GW</b>			<b>3</b>				<b>3</b>	<b>6</b>					<b>K310147-41</b>
2] <b>TP-20 S-20A</b>	PID:		<b>10/02/03</b>	<b>8:06</b>	<b>Soil</b>	<b>1</b>	<b>2</b>					<b>1</b>	<b>4</b>					<b>42</b>
3] <b>TP-14 S-14A</b>	PID:		<b>10/02/03</b>	<b>7:20</b>	<b>Soil</b>	<b>1</b>	<b>2</b>					<b>1</b>	<b>4</b>					<b>43</b>
4]	PID:																	
5]	PID:																	
6]	PID:																	
7]	PID:																	
8]	PID:																	
9]	PID:																	
10]	PID:																	

RELINQUISHED	10/07/03	RECEIVED	10/7/03	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	9:20	<i>[Signature]</i>	9:15		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: **Hold these samples for future analysis. Analysis to be determined**

TOTAL P.19

2006

17 July 2006  
Tom Donovan

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia, PA 19406

RE: Loveland - Parcel 2

*Dyott*

Enclosed are the results of analyses for samples received by the laboratory on 07/06/06 15:57. If you have any questions concerning the report, please feel free to contact me.

Sincerely,



Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Loveland - Parcel 2  
Project Number: 70588-09  
Project Manager: Tom Donovan

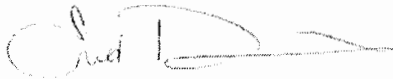
Reported:  
07/17/06 14:31

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-11 (12)	6070117-01	Soil	07/05/06 12:20	07/06/06 15:57
TP-12 (12)	6070117-02	Soil	07/05/06 12:50	07/06/06 15:57
TP-13 (11)	6070117-03	Soil	07/05/06 13:15	07/06/06 15:57

TestAmerica Analytical - King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Loveland - Parcel 2  
Project Number: 70588-09  
Project Manager: Tom Donovan


Reported:  
07/17/06 14:31

**Priority Pollutant Metals by EPA 6000/7000 Series Methods**  
**TestAmerica Analytical - King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-11 (12) (6070117-01) Soil Sampled: 07/05/06 12:20 Received: 07/06/06 15:57</b>									
Antimony	ND	6.5	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
<b>Beryllium</b>	<b>0.55</b>	0.26	"	"	"	"	"	"	
Cadmium	ND	1.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.4</b>	3.3	"	"	"	"	"	"	
<b>Copper</b>	<b>260</b>	3.3	"	"	"	"	"	"	
<b>Lead</b>	<b>410</b>	6.5	"	"	"	"	"	"	
<b>Nickel</b>	<b>16</b>	3.3	"	"	"	"	"	"	
Selenium	ND	16	"	"	"	"	"	"	
Silver	ND	3.3	"	"	"	"	"	"	
<b>Zinc</b>	<b>75</b>	3.3	"	"	"	"	"	"	
<b>TP-12 (12) (6070117-02) Soil Sampled: 07/05/06 12:50 Received: 07/06/06 15:57</b>									
Antimony	ND	5.0	mg/kg dry	1	6071303	07/13/06	07/13/06	EPA 6010B	
<b>Beryllium</b>	<b>0.61</b>	0.20	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.1</b>	2.5	"	"	"	"	"	"	
<b>Copper</b>	<b>100</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>190</b>	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>16</b>	2.5	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>Zinc</b>	<b>280</b>	2.5	"	"	"	"	"	"	
<b>TP-13 (11) (6070117-03) Soil Sampled: 07/05/06 13:15 Received: 07/06/06 15:57</b>									
Antimony	ND	7.5	mg/kg dry	1	6071303	07/13/06	07/13/06	EPA 6010B	
<b>Beryllium</b>	<b>0.58</b>	0.30	"	"	"	"	"	"	
Cadmium	ND	1.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>13</b>	3.7	"	"	"	"	"	"	
<b>Copper</b>	<b>43</b>	3.7	"	"	"	"	"	"	
<b>Lead</b>	<b>370</b>	7.5	"	"	"	"	"	"	
<b>Nickel</b>	<b>15</b>	3.7	"	"	"	"	"	"	
Selenium	ND	19	"	"	"	"	"	"	
Silver	ND	3.7	"	"	"	"	"	"	
<b>Zinc</b>	<b>91</b>	3.7	"	"	"	"	"	"	

TestAmerica Analytical - King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Loveland - Parcel 2  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/17/06 14:31

**Total Metals by EPA 6000/7000 Series Methods**  
**TestAmerica Analytical - King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-11 (12) (6070117-01) Soil Sampled: 07/05/06 12:20 Received: 07/06/06 15:57</b>									
Arsenic	37	6.5	mg/kg dry	20	6071203	07/12/06	07/12/06	EPA 7060A	DILN, MS4X
Mercury	2.93	1.30	"	10	6071212	07/12/06	07/13/06	EPA 7471A	DILN
Thallium	ND	0.13	"	1	6071203	07/12/06	07/12/06	EPA 7841	G02
<b>TP-12 (12) (6070117-02) Soil Sampled: 07/05/06 12:50 Received: 07/06/06 15:57</b>									
Arsenic	15	1.2	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	0.669	0.100	"	1	6071212	07/12/06	07/13/06	EPA 7471A	
Thallium	ND	0.10	"	"	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-13 (11) (6070117-03) Soil Sampled: 07/05/06 13:15 Received: 07/06/06 15:57</b>									
Arsenic	2.8	1.9	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	0.298	0.150	"	1	6071212	07/12/06	07/13/06	EPA 7471A	
Thallium	ND	0.15	"	"	6071203	07/12/06	07/12/06	EPA 7841	

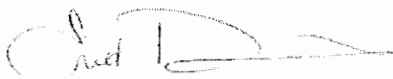




RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Loveland - Parcel 2 Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/17/06 14:31
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica Analytical - King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-11 (12) (6070117-01) Soil    Sampled: 07/05/06 12:20    Received: 07/06/06 15:57</b>									
PCB-1016	ND	0.065	mg/kg dry	1	6070716	07/10/06	07/10/06	EPA 8082	
PCB-1221	ND	0.065	"	"	"	"	"	"	
PCB-1232	ND	0.065	"	"	"	"	"	"	
PCB-1242	ND	0.065	"	"	"	"	"	"	
PCB-1248	ND	0.065	"	"	"	"	"	"	
PCB-1254	ND	0.065	"	"	"	"	"	"	
PCB-1260	ND	0.065	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		91.0 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		65.2 %	17-110		"	"	"	"	
<b>TP-12 (12) (6070117-02) Soil    Sampled: 07/05/06 12:50    Received: 07/06/06 15:57</b>									
PCB-1016	ND	0.050	mg/kg dry	1	6070716	07/10/06	07/15/06	EPA 8082	
PCB-1221	ND	0.050	"	"	"	"	"	"	
PCB-1232	ND	0.050	"	"	"	"	"	"	
PCB-1242	ND	0.050	"	"	"	"	"	"	
PCB-1248	ND	0.050	"	"	"	"	"	"	
PCB-1254	ND	0.050	"	"	"	"	"	"	
PCB-1260	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		100 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		47.1 %	17-110		"	"	"	"	
<b>TP-13 (11) (6070117-03) Soil    Sampled: 07/05/06 13:15    Received: 07/06/06 15:57</b>									
PCB-1016	ND	0.075	mg/kg dry	1	6070716	07/10/06	07/10/06	EPA 8082	
PCB-1221	ND	0.075	"	"	"	"	"	"	
PCB-1232	ND	0.075	"	"	"	"	"	"	
PCB-1242	ND	0.075	"	"	"	"	"	"	
PCB-1248	ND	0.075	"	"	"	"	"	"	
PCB-1254	ND	0.075	"	"	"	"	"	"	
PCB-1260	ND	0.075	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		97.6 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		64.7 %	17-110		"	"	"	"	



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Loveland - Parcel 2  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/17/06 14:31

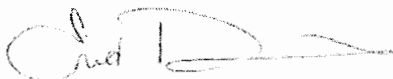
**Semivolatile Organic Compounds by EPA Method 8270D**  
**TestAmerica Analytical - King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-11 (12) (6070117-01) Soil Sampled: 07/05/06 12:20 Received: 07/06/06 15:57</b>									
Acenaphthene	ND	0.13	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.13	"	"	"	"	"	"	
Anthracene	ND	0.13	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.13	"	"	"	"	"	"	
Benzo[a]pyrene	ND	0.13	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.13	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.13	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.13	"	"	"	"	"	"	
Chrysene	ND	0.13	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.13	"	"	"	"	"	"	
Fluoranthene	ND	0.13	"	"	"	"	"	"	
Fluorene	ND	0.13	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.13	"	"	"	"	"	"	
Naphthalene	ND	0.13	"	"	"	"	"	"	
Phenanthrene	ND	0.13	"	"	"	"	"	"	
Pyrene	ND	0.13	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		89.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		86.2 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		81.6 %	18-137		"	"	"	"	

<b>TP-12 (12) (6070117-02) Soil Sampled: 07/05/06 12:50 Received: 07/06/06 15:57</b>									
Acenaphthene	0.10	0.10	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.10	"	"	"	"	"	"	
Anthracene	0.24	0.10	"	"	"	"	"	"	
Benzo (a) anthracene	0.66	0.10	"	"	"	"	"	"	
Benzo[a]pyrene	0.61	0.10	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.93	0.10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	0.55	0.10	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.34	0.10	"	"	"	"	"	"	
Chrysene	0.65	0.10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.15	0.10	"	"	"	"	"	"	
Fluoranthene	1.1	0.10	"	"	"	"	"	"	
Fluorene	0.11	0.10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.62	0.10	"	"	"	"	"	"	
Naphthalene	0.11	0.10	"	"	"	"	"	"	
Phenanthrene	0.70	0.10	"	"	"	"	"	"	
Pyrene	0.98	0.10	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		89.9 %	23-120		"	"	"	"	

TestAmerica Analytical - King Of Prussia

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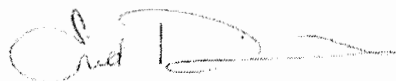


Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA. 19406	Project: Loveland - Parcel 2 Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/17/06 14:31
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**Semivolatile Organic Compounds by EPA Method 8270D**  
**TestAmerica Analytical - King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-12 (12) (6070117-02) Soil    Sampled: 07/05/06 12:50    Received: 07/06/06 15:57</b>									
Surrogate: 2-Fluorobiphenyl		79.3 %		30-115	6071125	07/12/06	07/13/06	EPA 8270D	
Surrogate: Terphenyl-d14		76.3 %		18-137	"	"	"	"	
<b>TP-13 (11) (6070117-03) Soil    Sampled: 07/05/06 13:15    Received: 07/06/06 15:57</b>									
Acenaphthene	ND	0.15	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.15	"	"	"	"	"	"	
Anthracene	ND	0.15	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.15	"	"	"	"	"	"	
Benzo[a]pyrene	ND	0.15	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.15	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.15	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.15	"	"	"	"	"	"	
Chrysene	ND	0.15	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.15	"	"	"	"	"	"	
Fluoranthene	ND	0.15	"	"	"	"	"	"	
Fluorene	ND	0.15	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.15	"	"	"	"	"	"	
Naphthalene	ND	0.15	"	"	"	"	"	"	
Phenanthrene	ND	0.15	"	"	"	"	"	"	
Pyrene	ND	0.15	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		89.6 %		23-120	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		83.5 %		30-115	"	"	"	"	
Surrogate: Terphenyl-d14		84.3 %		18-137	"	"	"	"	



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA. 19406	Project: Loveland - Parcel 2 Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/17/06 14:31
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**Physical Parameters by APHA/ASTM/EPA Methods**  
**TestAmerica Analytical - King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-11 (12) (6070117-01) Soil    Sampled: 07/05/06 12:20    Received: 07/06/06 15:57</b>									
% Solids	76.7	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-12 (12) (6070117-02) Soil    Sampled: 07/05/06 12:50    Received: 07/06/06 15:57</b>									
% Solids	84.3	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-13 (11) (6070117-03) Soil    Sampled: 07/05/06 13:15    Received: 07/06/06 15:57</b>									
% Solids	66.8	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	

TestAmerica Analytical - King Of Prussia

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Enid Dunmire, Project Manager

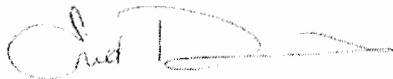
RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA. 19406

Project: Loveland - Parcel 2  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/17/06 14:31

### Notes and Definitions

- MS4X The source sample result for this MS/MSD is greater than 4 times the spike level, therefore % recoveries are statistically insignificant.
- G02 The matrix QC recoveries associated with this sample were below the laboratory's established acceptance criteria.
- G01 The matrix QC recoveries associated with this sample were above the laboratory's established acceptance criteria.
- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV			Bill To: SAME			TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.															
Address: KCP			Address:			Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient		DATE RESULTS NEEDED:													
			Terms: Net 30 days			Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES		Temp. Upon Receipt: <u>0°C</u>													
Report to: E-mail: <u>Thomas/Clk</u>		Phone #: ( ) Fax #: ( )		State & Program: PA DEP		Phone #: ( ) Fax #: ( )		If Yes, please explain:													
Project Name: <u>Lowland</u>			Project #/PO#: <u>70588-09</u>			Sampler: <u>Thomas</u>			LABORATORY ID NUMBER												
FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLER PREPARED D YES L NO	PP	PAMA	TCB	SILVER	DUSTED	SIS	PE	CRACKED BROKEN	IMPROPERLY SEALED	
				MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH												NONE
1 TP-11 (12) PID:	7/5	12 <sup>00</sup>	Soil						11	X	X	X									6070117-01
2 TP-12 (12) PID:	↓	12 <sup>00</sup>	↓						11	X	X	X									-02
3 TP-13 (11) PID:	↓	13 <sup>00</sup>	↓						11	X	X	X									-03
4 PID:																					
5 PID:																					
6 <del>IST</del> → Columbus Blvd PID:	7/6	14 <sup>00</sup>	H <sub>2</sub> O		3				25				X	X							on site COC GARY
7 PID:																					
8 PID:																					
9 PID:																					
10 PID:																					
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE
		<u>7/6/06</u>	<u>15:57</u>																		
COMMENTS:	Keep TP 7(7) TP 10(12) TP-2(12) on Hold IST is from Columbus Blvd Parcel → please Analyze ASAP																				
PAGE 2 OF 2																					

# TestAmerica

## Specification Sheet

1008 W. Ninth Avenue \* King of Prussia, PA 19406

(610) 337-9992 \* FAX (610) 337-9939

1090 King Georges Post Rd. \* Suite 803 \* Edison, NJ 08837

(732) 661-0777 \* FAX (732) 661-0305

Attention: Tom Donovan

Specification Sheet ID: 1215

Date Received: 7/6/2006

Date Created: 7/6/2006

Company Name: RT Environmental

Please FAX

Project Name: Dyott / Loveland

### LAB ID Numbers:

*Upon sample inspection/preparation we determined that your samples were out of specification for the following:*

### Sample Specification Problems

Information Does Not Match

Affected Sample ID(s): TP-11(12), TP-12(12) & TP-13(11)

Comments: TP-11(12), TP-12(12) & TP-13(11) labels have Project name of Dyott. COC has project name of Loveland.

*Please indicate below how we should proceed with this project, sign and return.*

Proceed with analysis:

Hold for further instructions:

Client Comments:

*Please FAX back to the Login Department or call with any questions. Thank you for your business.*

TestAmerica Laboratories

Phone Number: (610) 337-9992

FAX Number: (610) 337-9939

Signature

Date

19 July 2006  
Tom Donovan

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia, PA 19406

RE: Dyott St.

Enclosed are the results of analyses for samples received by the laboratory on 07/06/06 16:00. If you have any questions concerning the report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Enid Dunmire". The signature is stylized with a large, looped "E" and a long, sweeping horizontal stroke at the end.

Enid Dunmire  
Project Manager



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-1 (8)	6070116-01	Soil	07/05/06 07:45	07/06/06 16:00
TP-2 (10)	6070116-02	Soil	07/05/06 08:20	07/06/06 16:00
TP-3 (5)	6070116-03	Soil	07/05/06 08:45	07/06/06 16:00
TP-4 (4)	6070116-04	Soil	07/05/06 09:20	07/06/06 16:00
TP-5 (5)	6070116-05	Soil	07/05/06 09:30	07/06/06 16:00
TP-6 (5)	6070116-06	Soil	07/05/06 09:55	07/06/06 16:00
TP-8 (9)	6070116-08	Soil	07/05/06 10:45	07/06/06 16:00
TP-9 (12)	6070116-09	Soil	07/05/06 11:25	07/06/06 16:00



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Dyott St.  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/19/06 10:34

**Priority Pollutant Metals by EPA 6000/7000 Series Methods**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 (8) (6070116-01) Soil</b> <b>Sampled: 07/05/06 07:45</b> <b>Received: 07/06/06 16:00</b>									
Antimony	ND	7.5	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
Beryllium	0.56	0.30	"	"	"	"	"	"	
Cadmium	ND	1.5	"	"	"	"	"	"	
Chromium	9.7	3.7	"	"	"	"	"	"	
Copper	79	3.7	"	"	"	"	"	"	
Lead	170	7.5	"	"	"	"	"	"	
Nickel	15	3.7	"	"	"	"	"	"	
Selenium	ND	19	"	"	"	"	"	"	
Silver	ND	3.7	"	"	"	"	"	"	
Zinc	180	3.7	"	"	"	"	"	"	
<b>TP-2 (10) (6070116-02) Soil</b> <b>Sampled: 07/05/06 08:20</b> <b>Received: 07/06/06 16:00</b>									
Antimony	ND	5.0	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
Beryllium	0.45	0.20	"	"	"	"	"	"	
Cadmium	1.0	1.0	"	"	"	"	"	"	
Chromium	6.2	2.5	"	"	"	"	"	"	
Copper	90	2.5	"	"	"	"	"	"	
Lead	25	5.0	"	"	"	"	"	"	
Nickel	14	2.5	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
Zinc	270	2.5	"	"	"	"	"	"	
<b>TP-3 (5) (6070116-03) Soil</b> <b>Sampled: 07/05/06 08:45</b> <b>Received: 07/06/06 16:00</b>									
Antimony	6.6	5.0	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
Beryllium	4.1	0.20	"	"	"	"	"	"	
Cadmium	1.3	1.0	"	"	"	"	"	"	
Chromium	130	2.5	"	"	"	"	"	"	
Copper	1100	2.5	"	"	"	"	"	"	
Lead	640	5.0	"	"	"	"	"	"	
Nickel	53	2.5	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
Zinc	1300	2.5	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Priority Pollutant Metals by EPA 6000/7000 Series Methods**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-4 (4) (6070116-04) Soil    Sampled: 07/05/06 09:20    Received: 07/06/06 16:00</b>									
Antimony	17	5.0	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
Beryllium	0.83	0.20	"	"	"	"	"	"	
Cadmium	5.3	1.0	"	"	"	"	"	"	
Chromium	130	2.5	"	"	"	"	"	"	
Copper	490	2.5	"	"	"	"	"	"	
Lead	2200	5.0	"	"	"	"	"	"	
Nickel	70	2.5	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
Zinc	1800	2.5	"	"	"	"	"	"	
<b>TP-5 (5) (6070116-05) Soil    Sampled: 07/05/06 09:30    Received: 07/06/06 16:00</b>									
Antimony	ND	5.0	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
Beryllium	0.31	0.20	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	13	2.5	"	"	"	"	"	"	
Copper	500	2.5	"	"	"	"	"	"	
Lead	300	5.0	"	"	"	"	"	"	
Nickel	16	2.5	"	"	"	"	"	"	
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
Zinc	300	2.5	"	"	"	"	"	"	
<b>TP-6 (5) (6070116-06) Soil    Sampled: 07/05/06 09:55    Received: 07/06/06 16:00</b>									
Antimony	ND	6.5	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
Beryllium	0.63	0.26	"	"	"	"	"	"	
Cadmium	ND	1.3	"	"	"	"	"	"	
Chromium	42	3.2	"	"	"	"	"	"	
Copper	110	3.2	"	"	"	"	"	"	
Lead	280	6.5	"	"	"	"	"	"	
Nickel	24	3.2	"	"	"	"	"	"	
Selenium	ND	16	"	"	"	"	"	"	
Silver	ND	3.2	"	"	"	"	"	"	
Zinc	310	3.2	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Dyott St.  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/19/06 10:34

**Priority Pollutant Metals by EPA 6000/7000 Series Methods**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-8 (9) (6070116-08) Soil    Sampled: 07/05/06 10:45    Received: 07/06/06 16:00</b>									
Antimony	ND	6.7	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
<b>Beryllium</b>	<b>0.47</b>	0.27	"	"	"	"	"	"	
Cadmium	ND	1.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	3.3	"	"	"	"	"	"	
<b>Copper</b>	<b>89</b>	3.3	"	"	"	"	"	"	
<b>Lead</b>	<b>180</b>	6.7	"	"	"	"	"	"	
<b>Nickel</b>	<b>30</b>	3.3	"	"	"	"	"	"	
Selenium	ND	17	"	"	"	"	"	"	
Silver	ND	3.3	"	"	"	"	"	"	
<b>Zinc</b>	<b>300</b>	3.3	"	"	"	"	"	"	

<b>TP-9 (12) (6070116-09) Soil    Sampled: 07/05/06 11:25    Received: 07/06/06 16:00</b>									
Antimony	ND	6.8	mg/kg dry	1	6071202	07/12/06	07/12/06	EPA 6010B	
<b>Beryllium</b>	<b>0.44</b>	0.27	"	"	"	"	"	"	
Cadmium	ND	1.4	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.1</b>	3.4	"	"	"	"	"	"	
<b>Copper</b>	<b>110</b>	3.4	"	"	"	"	"	"	
<b>Lead</b>	<b>940</b>	6.8	"	"	"	"	"	"	
<b>Nickel</b>	<b>5.7</b>	3.4	"	"	"	"	"	"	
Selenium	ND	17	"	"	"	"	"	"	
Silver	ND	3.4	"	"	"	"	"	"	
<b>Zinc</b>	<b>57</b>	3.4	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

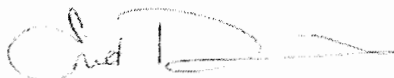
RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Total Metals by EPA 6000/7000 Series Methods  
TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 (8) (6070116-01) Soil    Sampled: 07/05/06 07:45    Received: 07/06/06 16:00</b>									
Arsenic	6.0	1.9	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	0.712	0.150	"	1	6071212	07/12/06	07/13/06	EPA 7471A	
Thallium	ND	0.15	"	"	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-2 (10) (6070116-02) Soil    Sampled: 07/05/06 08:20    Received: 07/06/06 16:00</b>									
Arsenic	6.0	1.2	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	ND	0.100	"	1	6071212	07/12/06	07/13/06	EPA 7471A	
Thallium	0.12	0.10	"	"	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-3 (5) (6070116-03) Soil    Sampled: 07/05/06 08:45    Received: 07/06/06 16:00</b>									
Arsenic	14	1.2	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	8.43	2.00	"	20	6071212	07/12/06	07/13/06	EPA 7471A	DILN
Thallium	0.19	0.10	"	1	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-4 (4) (6070116-04) Soil    Sampled: 07/05/06 09:20    Received: 07/06/06 16:00</b>									
Arsenic	6.3	1.2	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	4.79	1.00	"	10	6071212	07/12/06	07/13/06	EPA 7471A	DILN
Thallium	ND	0.10	"	1	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-5 (5) (6070116-05) Soil    Sampled: 07/05/06 09:30    Received: 07/06/06 16:00</b>									
Arsenic	2.4	1.2	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	0.489	0.100	"	1	6071212	07/12/06	07/13/06	EPA 7471A	
Thallium	ND	0.10	"	"	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-6 (5) (6070116-06) Soil    Sampled: 07/05/06 09:55    Received: 07/06/06 16:00</b>									
Arsenic	4.0	1.6	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	0.525	0.129	"	1	6071212	07/12/06	07/13/06	EPA 7471A	
Thallium	ND	0.13	"	"	6071203	07/12/06	07/12/06	EPA 7841	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Total Metals by EPA 6000/7000 Series Methods**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-8 (9) (6070116-08) Soil    Sampled: 07/05/06 10:45    Received: 07/06/06 16:00</b>									
Arsenic	6.8	1.7	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	1.17	0.268	"	2	6071212	07/12/06	07/13/06	EPA 7471A	DILN
Thallium	ND	0.13	"	1	6071203	07/12/06	07/12/06	EPA 7841	
<b>TP-9 (12) (6070116-09) Soil    Sampled: 07/05/06 11:25    Received: 07/06/06 16:00</b>									
Arsenic	12	1.7	mg/kg dry	5	6071203	07/12/06	07/12/06	EPA 7060A	DILN
Mercury	23.2	5.46	"	40	6071212	07/12/06	07/13/06	EPA 7471A	DILN
Thallium	ND	0.14	"	1	6071203	07/12/06	07/12/06	EPA 7841	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Dyott St.  
Project Number: 70588-09  
Project Manager: Tom Donovan


Reported:  
07/19/06 10:34

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 (8) (6070116-01) Soil Sampled: 07/05/06 07:45 Received: 07/06/06 16:00</b>									
PCB-1016	ND	0.075	mg/kg dry	1	6071024	07/11/06	07/15/06	EPA 8082	
PCB-1221	ND	0.075	"	"	"	"	"	"	
PCB-1232	ND	0.075	"	"	"	"	"	"	
PCB-1242	ND	0.075	"	"	"	"	"	"	
PCB-1248	ND	0.075	"	"	"	"	"	"	
PCB-1254	ND	0.075	"	"	"	"	"	"	
PCB-1260	ND	0.075	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		90.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		50.8 %	17-110	"	"	"	"	"	
<b>TP-2 (10) (6070116-02) Soil Sampled: 07/05/06 08:20 Received: 07/06/06 16:00</b>									
PCB-1016	ND	0.050	mg/kg dry	1	6071024	07/11/06	07/14/06	EPA 8082	
PCB-1221	ND	0.050	"	"	"	"	"	"	
PCB-1232	ND	0.050	"	"	"	"	"	"	
PCB-1242	ND	0.050	"	"	"	"	"	"	
PCB-1248	ND	0.050	"	"	"	"	"	"	
PCB-1254	ND	0.050	"	"	"	"	"	"	
PCB-1260	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		79.2 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		47.4 %	17-110	"	"	"	"	"	
<b>TP-3 (5) (6070116-03) Soil Sampled: 07/05/06 08:45 Received: 07/06/06 16:00</b>									
PCB-1016	ND	0.25	mg/kg dry	5	6071024	07/11/06	07/17/06	EPA 8082	
PCB-1221	ND	0.25	"	"	"	"	"	"	
PCB-1232	ND	0.25	"	"	"	"	"	"	
PCB-1242	ND	0.25	"	"	"	"	"	"	
PCB-1248	ND	0.25	"	"	"	"	"	"	
PCB-1254	<b>0.76</b>	0.25	"	"	"	"	"	"	
PCB-1260	<b>0.48</b>	0.25	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		112 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		149 %	17-110	"	"	"	"	"	05

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RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Dyott St.  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/19/06 10:34

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-4 (4) (6070116-04) Soil</b> Sampled: 07/05/06 09:20 Received: 07/06/06 16:00									<b>DILN</b>
PCB-1016	ND	100	mg/kg dry	2000	6071024	07/11/06	07/17/06	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>260</b>	100	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-5 (5) (6070116-05) Soil</b> Sampled: 07/05/06 09:30 Received: 07/06/06 16:00									<b>DILN</b>
PCB-1016	ND	0.50	mg/kg dry	10	6071024	07/11/06	07/17/06	EPA 8082	
PCB-1221	ND	0.50	"	"	"	"	"	"	
PCB-1232	ND	0.50	"	"	"	"	"	"	
PCB-1242	ND	0.50	"	"	"	"	"	"	
PCB-1248	ND	0.50	"	"	"	"	"	"	
PCB-1254	ND	0.50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		104 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		230 %	17-110	"	"	"	"	"	O5
<b>TP-6 (5) (6070116-06) Soil</b> Sampled: 07/05/06 09:55 Received: 07/06/06 16:00									<b>10</b>
PCB-1016	ND	0.065	mg/kg dry	1	6071024	07/11/06	07/15/06	EPA 8082	
PCB-1221	ND	0.065	"	"	"	"	"	"	
PCB-1232	ND	0.065	"	"	"	"	"	"	
PCB-1242	ND	0.065	"	"	"	"	"	"	
PCB-1248	ND	0.065	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>0.23</b>	0.065	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>0.11</b>	0.065	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		97.2 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		29.1 %	17-110	"	"	"	"	"	

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Enid Dunmire, Project Manager



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-8 (9) (6070116-08) Soil</b> Sampled: 07/05/06 10:45 Received: 07/06/06 16:00									<b>DILN</b>
PCB-1016	ND	0.33	mg/kg dry	5	6071024	07/11/06	07/18/06	EPA 8082	
PCB-1221	ND	0.33	"	"	"	"	"	"	
PCB-1232	ND	0.33	"	"	"	"	"	"	
PCB-1242	ND	0.33	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>0.92</b>	0.33	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1.0</b>	0.33	"	"	"	"	"	"	
PCB-1260	ND	0.33	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		118 %	43-112	"	"	"	"	"	05
<i>Surrogate: Decachlorobiphenyl</i>		89.7 %	17-110	"	"	"	"	"	
<b>TP-9 (12) (6070116-09) Soil</b> Sampled: 07/05/06 11:25 Received: 07/06/06 16:00									
PCB-1016	ND	0.068	mg/kg dry	1	6071024	07/11/06	07/13/06	EPA 8082	
PCB-1221	ND	0.068	"	"	"	"	"	"	
PCB-1232	ND	0.068	"	"	"	"	"	"	
PCB-1242	ND	0.068	"	"	"	"	"	"	
PCB-1248	ND	0.068	"	"	"	"	"	"	
PCB-1254	ND	0.068	"	"	"	"	"	"	
PCB-1260	ND	0.068	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		76.0 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		83.3 %	17-110	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Semivolatile Organic Compounds by EPA Method 8270D**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 (8) (6070116-01) Soil Sampled: 07/05/06 07:45 Received: 07/06/06 16:00</b>									
Acenaphthene	ND	0.15	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.15	"	"	"	"	"	"	
Anthracene	ND	0.15	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.30</b>	0.15	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>0.31</b>	0.15	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.42</b>	0.15	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>0.23</b>	0.15	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.15</b>	0.15	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.26</b>	0.15	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.15	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.59</b>	0.15	"	"	"	"	"	"	
Fluorene	ND	0.15	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.27</b>	0.15	"	"	"	"	"	"	
Naphthalene	ND	0.15	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>0.30</b>	0.15	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.51</b>	0.15	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		92.0 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		86.3 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		83.9 %		18-137	"	"	"	"	

<b>TP-2 (10) (6070116-02) Soil Sampled: 07/05/06 08:20 Received: 07/06/06 16:00</b>									
Acenaphthene	ND	0.10	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.10	"	"	"	"	"	"	
Anthracene	ND	0.10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.10	"	"	"	"	"	"	
Benzo[a]pyrene	ND	0.10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.10	"	"	"	"	"	"	
Chrysene	ND	0.10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.10	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.11</b>	0.10	"	"	"	"	"	"	
Fluorene	ND	0.10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>0.10</b>	0.10	"	"	"	"	"	"	
Pyrene	ND	0.10	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

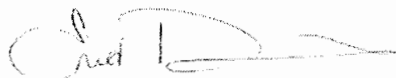
RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Semivolatle Organic Compounds by EPA Method 8270D**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-2 (10) (6070116-02) Soil</b> <b>Sampled: 07/05/06 08:20</b> <b>Received: 07/06/06 16:00</b>									
Surrogate: Nitrobenzene-d5		93.5 %	23-120		6071125	07/12/06	07/13/06	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		79.4 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		87.4 %	18-137		"	"	"	"	
<b>TP-3 (5) (6070116-03) Soil</b> <b>Sampled: 07/05/06 08:45</b> <b>Received: 07/06/06 16:00</b>									
Acenaphthene	ND	0.10	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.10	"	"	"	"	"	"	
Anthracene	ND	0.10	"	"	"	"	"	"	
Benzo (a) anthracene	0.31	0.10	"	"	"	"	"	"	
Benzo[a]pyrene	0.34	0.10	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.48	0.10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	0.29	0.10	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.16	0.10	"	"	"	"	"	"	
Chrysene	0.36	0.10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.10	"	"	"	"	"	"	
Fluoranthene	0.68	0.10	"	"	"	"	"	"	
Fluorene	ND	0.10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.34	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Phenanthrene	0.37	0.10	"	"	"	"	"	"	
Pyrene	0.42	0.10	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		87.8 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		83.7 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		62.8 %	18-137		"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Dyott St.  
Project Number: 70588-09  
Project Manager: Tom Donovan

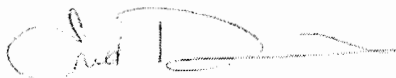
Reported:  
07/19/06 10:34

**Semivolatile Organic Compounds by EPA Method 8270D**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-4 (4) (6070116-04) Soil</b>									<b>DILN</b>
Sampled: 07/05/06 09:20 Received: 07/06/06 16:00									
Acenaphthene	ND	0.50	mg/kg dry	5	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.50	"	"	"	"	"	"	
Anthracene	ND	0.50	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.65</b>	0.50	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>0.62</b>	0.50	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.78</b>	0.50	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.50	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.50	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.54</b>	0.50	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.50	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>1.4</b>	0.50	"	"	"	"	"	"	
Fluorene	ND	0.50	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.51</b>	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	
<b>Pyrene</b>	<b>1.0</b>	0.50	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		82.9 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		84.0 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		70.1 %		18-137	"	"	"	"	
<b>TP-5 (5) (6070116-05) Soil</b>									
Sampled: 07/05/06 09:30 Received: 07/06/06 16:00									
Acenaphthene	0.22	0.10	mg/kg dry	1	6071125	07/12/06	07/14/06	EPA 8270D	
Acenaphthylene	ND	0.10	"	"	"	"	"	"	
Anthracene	0.63	0.10	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>1.3</b>	0.10	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>1.2</b>	0.10	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>1.6</b>	0.10	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>0.79</b>	0.10	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.51</b>	0.10	"	"	"	"	"	"	
<b>Chrysene</b>	<b>1.3</b>	0.10	"	"	"	"	"	"	
<b>Dibenz (a,h) anthracene</b>	<b>0.26</b>	0.10	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>3.4</b>	0.10	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.32</b>	0.10	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.92</b>	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>2.2</b>	0.10	"	"	"	"	"	"	
<b>Pyrene</b>	<b>2.0</b>	0.10	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		88.8 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		83.2 %		30-115	"	"	"	"	

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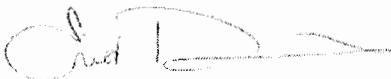
RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Semivolatile Organic Compounds by EPA Method 8270D**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-5 (5) (6070116-05) Soil    Sampled: 07/05/06 09:30    Received: 07/06/06 16:00</b>									
<i>Surrogate: Terphenyl-d14</i>		68.5 %	18-137		6071125	07/12/06	07/14/06	EPA 8270D	
<b>TP-6 (5) (6070116-06) Soil    Sampled: 07/05/06 09:55    Received: 07/06/06 16:00</b>									
Acenaphthene	ND	0.65	mg/kg dry	5	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	1.6	0.65	"	"	"	"	"	"	
Anthracene	2.1	0.65	"	"	"	"	"	"	
Benzo (a) anthracene	4.1	0.65	"	"	"	"	"	"	
Benzo[a]pyrene	4.3	0.65	"	"	"	"	"	"	
Benzo (b) fluoranthene	5.0	0.65	"	"	"	"	"	"	
Benzo (g,h,i) perylene	2.8	0.65	"	"	"	"	"	"	
Benzo (k) fluoranthene	1.6	0.65	"	"	"	"	"	"	
Chrysene	3.6	0.65	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.83	0.65	"	"	"	"	"	"	
Fluoranthene	9.0	0.65	"	"	"	"	"	"	
Fluorene	0.69	0.65	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	3.3	0.65	"	"	"	"	"	"	
Naphthalene	ND	0.65	"	"	"	"	"	"	
Phenanthrene	5.1	0.65	"	"	"	"	"	"	
Pyrene	4.3	0.65	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		77.7 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		79.5 %	30-115		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		47.0 %	18-137		"	"	"	"	
<b>TP-8 (9) (6070116-08) Soil    Sampled: 07/05/06 10:45    Received: 07/06/06 16:00</b>									
Acenaphthene	1.5	0.13	mg/kg dry	1	6071125	07/12/06	07/14/06	EPA 8270D	
Acenaphthylene	ND	0.13	"	"	"	"	"	"	
Anthracene	0.54	0.13	"	"	"	"	"	"	
Benzo (a) anthracene	0.68	0.13	"	"	"	"	"	"	
Benzo[a]pyrene	0.58	0.13	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.76	0.13	"	"	"	"	"	"	
Benzo (g,h,i) perylene	0.37	0.13	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.25	0.13	"	"	"	"	"	"	
Chrysene	0.62	0.13	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.13	"	"	"	"	"	"	
Fluoranthene	1.7	0.13	"	"	"	"	"	"	
Fluorene	1.1	0.13	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.43	0.13	"	"	"	"	"	"	
Naphthalene	0.70	0.13	"	"	"	"	"	"	
Phenanthrene	1.8	0.13	"	"	"	"	"	"	
Pyrene	1.3	0.13	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Dyott St.  
Project Number: 70588-09  
Project Manager: Tom Donovan

Reported:  
07/19/06 10:34

**Semivolatile Organic Compounds by EPA Method 8270D**  
**TestAmerica - King Of Prussia, PA**

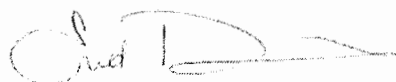
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-8 (9) (6070116-08) Soil Sampled: 07/05/06 10:45 Received: 07/06/06 16:00</b>									
Surrogate: Nitrobenzene-d5		91.0 %	23-120		6071125	07/12/06	07/14/06	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		91.5 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		77.6 %	18-137		"	"	"	"	
<b>TP-9 (12) (6070116-09) Soil Sampled: 07/05/06 11:25 Received: 07/06/06 16:00</b>									
Acenaphthene	ND	0.14	mg/kg dry	1	6071125	07/12/06	07/13/06	EPA 8270D	
Acenaphthylene	ND	0.14	"	"	"	"	"	"	
Anthracene	ND	0.14	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.14	"	"	"	"	"	"	
Benzo[a]pyrene	ND	0.14	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.14	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.14	"	"	"	"	"	"	G01
Benzo (k) fluoranthene	ND	0.14	"	"	"	"	"	"	
Chrysene	ND	0.14	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.14	"	"	"	"	"	"	G01
Fluoranthene	ND	0.14	"	"	"	"	"	"	
Fluorene	ND	0.14	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.14	"	"	"	"	"	"	G01
Naphthalene	ND	0.14	"	"	"	"	"	"	
Phenanthrene	ND	0.14	"	"	"	"	"	"	
Pyrene	ND	0.14	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		81.1 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		79.3 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		71.8 %	18-137		"	"	"	"	



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Physical Parameters by APHA/ASTM/EPA Methods  
TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-1 (8) (6070116-01) Soil</b>	<b>Sampled: 07/05/06 07:45 Received: 07/06/06 16:00</b>								
% Solids	66.8	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-2 (10) (6070116-02) Soil</b>	<b>Sampled: 07/05/06 08:20 Received: 07/06/06 16:00</b>								
% Solids	83.5	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-3 (5) (6070116-03) Soil</b>	<b>Sampled: 07/05/06 08:45 Received: 07/06/06 16:00</b>								
% Solids	84.9	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-4 (4) (6070116-04) Soil</b>	<b>Sampled: 07/05/06 09:20 Received: 07/06/06 16:00</b>								
% Solids	89.2	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-5 (5) (6070116-05) Soil</b>	<b>Sampled: 07/05/06 09:30 Received: 07/06/06 16:00</b>								
% Solids	84.4	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-6 (5) (6070116-06) Soil</b>	<b>Sampled: 07/05/06 09:55 Received: 07/06/06 16:00</b>								
% Solids	77.3	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-8 (9) (6070116-08) Soil</b>	<b>Sampled: 07/05/06 10:45 Received: 07/06/06 16:00</b>								
% Solids	74.7	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	
<b>TP-9 (12) (6070116-09) Soil</b>	<b>Sampled: 07/05/06 11:25 Received: 07/06/06 16:00</b>								
% Solids	73.2	0.01 % by Weight		1	6071007	07/10/06	07/10/06	EPA 160.3	



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Dyott St. Project Number: 70588-09 Project Manager: Tom Donovan	Reported: 07/19/06 10:34
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**Notes and Definitions**

- O5 One or more surrogate recoveries were above the laboratory's established acceptance criteria.
- O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample.
- G01 The matrix QC recoveries associated with this sample were above the laboratory's established acceptance criteria.
- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
- 10 This compound was below the method control limits in the Check Standard associated with this sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
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FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <u>Donovan/Clerk</u>		Phone #: ( )		State & Program: PA DEP	
E-mail: <u>Donovan/Clerk</u>		Fax #: ( )		Phone #: ( )	
				Fax #: ( )	
If Yes, please explain:					

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD TESTED D YES U NO	ANALYSIS TYPE	LABORATORY ID NUMBER			
				MeOH	H2SO4	HCl	HNO3	H2SO4	MeOH					NONE		
1 → 1 (5) PID:	7/5	7:45	Soil								X X X		6070116-01			
2 → 2 (10) PID:		8:20											-02			
3 → 3 (5) PID:		8:45											-03			
4 → 4 (1) PID:		9:20											-04			
5 → 5 (5) PID:		9:30											-05			
6 → 6 (5) PID:		9:50											-06			
7 → 7 (7) PID:		10:45											-07			
8 → 8 (9) PID:		10:45											-08			
9 → 9 (12) PID:		11:25											-09			
10 → 10 (12) PID:		11:50											-10			
RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME	RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME	RECEIVED	DATE	TIME		
	7/10/04	16:09		7/14/04	10:10:03											
COMMENTS	Keep 7-7(1) 7-10(12) 7-12(13) on Hold															
													PAGE	1	OF	2

**2007**



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11 June 2007

RT ENVIRONMENTAL

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront

Enclosed are the results of analyses for samples received by the laboratory on 05/23/07 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Enid Dunmire". The signature is stylized with a large initial "E" and "D".

Enid Dunmire  
Project Manager

---



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RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-10  
Project Manager: Craig Herr

Reported:  
06/11/07 16:49

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-100 (6)	KQE0739-01	Soil	05/23/07 07:55	05/23/07 15:45
TP-100 (3)	KQE0739-02	Soil	05/23/07 08:00	05/23/07 15:45
TP-100 (1)	KQE0739-03	Soil	05/23/07 07:50	05/23/07 15:45
TP-101 (2)	KQE0739-04	Soil	05/23/07 08:30	05/23/07 15:45
TP-101 (4)	KQE0739-05	Soil	05/23/07 08:35	05/23/07 15:45
TP-101 (6)	KQE0739-06	Soil	05/23/07 08:40	05/23/07 15:45
TP-102 (2)	KQE0739-07	Soil	05/23/07 09:00	05/23/07 15:45
TP-102 (5)	KQE0739-08	Soil	05/23/07 09:05	05/23/07 15:45
TP-103 (2)	KQE0739-09	Soil	05/23/07 09:35	05/23/07 15:45
TP-103 (6)	KQE0739-10	Soil	05/23/07 09:30	05/23/07 15:45
TP-104 (1)	KQE0739-11	Soil	05/23/07 09:45	05/23/07 15:45
TP-104 (3)	KQE0739-12	Soil	05/23/07 09:50	05/23/07 15:45
TP-104 (5)	KQE0739-13	Soil	05/23/07 09:55	05/23/07 15:45
TP-105 (2)	KQE0739-14	Soil	05/23/07 10:05	05/23/07 15:45
TP-105 (6)	KQE0739-15	Soil	05/23/07 10:10	05/23/07 15:45
TP-106 (1)	KQE0739-16	Soil	05/23/07 10:30	05/23/07 15:45
TP-106 (3)	KQE0739-17	Soil	05/23/07 10:35	05/23/07 15:45
TP-106 (5)	KQE0739-18	Soil	05/23/07 10:40	05/23/07 15:45
TP-107 (2)	KQE0739-19	Soil	05/23/07 11:00	05/23/07 15:45
TP-107 (5)	KQE0739-20	Soil	05/23/07 11:05	05/23/07 15:45
TP-108 (1)	KQE0739-21	Soil	05/23/07 11:20	05/23/07 15:45
TP-108 (4)	KQE0739-22	Soil	05/23/07 11:25	05/23/07 15:45
TP-108 (6)	KQE0739-23	Soil	05/23/07 11:30	05/23/07 15:45
TP-108 (12)	KQE0739-24	Soil	05/23/07 11:35	05/23/07 15:45
TP-109 (2)	KQE0739-25	Soil	05/23/07 12:00	05/23/07 15:45
TP-109 (4)	KQE0739-26	Soil	05/23/07 12:05	05/23/07 15:45

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager



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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-10 Project Manager: Craig Herr	<b>Reported:</b> 06/11/07 16:49
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-109 (6)	KQE0739-27	Soil	05/23/07 12:10	05/23/07 15:45
TP-110 (1)	KQE0739-28	Soil	05/23/07 12:15	05/23/07 15:45
TP-110 (3)	KQE0739-29	Soil	05/23/07 12:20	05/23/07 15:45
TP-110 (6)	KQE0739-30	Soil	05/23/07 12:25	05/23/07 15:45

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-10  
Project Manager: Craig Herr

**Reported:**  
06/11/07 16:49

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting			Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit								
<b>TP-100 (6) (KQE0739-01) Soil Sampled: 05/23/07 07:55 Received: 05/23/07 15:45</b>											
PCB-1016	ND	8.0	50	ug/kg dry	1	7053037	05/31/07	06/05/07	EPA 8082		
PCB-1221	ND	10	50	"	"	"	"	"	"		
PCB-1232	ND	12	50	"	"	"	"	"	"		
PCB-1242	ND	8.2	50	"	"	"	"	"	"		
PCB-1248	ND	5.8	50	"	"	"	"	"	"		
PCB-1254	ND	5.9	50	"	"	"	"	"	"		
<b>PCB-1260</b>	<b>52</b>	6.9	50	"	"	"	"	"	"		
<i>Surrogate: Tetrachloro-meta-xylene</i>		89.8 %	43-112			"	"	"	"		
<i>Surrogate: Decachlorobiphenyl</i>		70.2 %	17-110			"	"	"	"		
<b>TP-100 (3) (KQE0739-02) Soil Sampled: 05/23/07 08:00 Received: 05/23/07 15:45</b>											<b>10, DILN</b>
PCB-1016	ND	40	250	ug/kg dry	5	7053037	05/31/07	06/08/07	EPA 8082		
PCB-1221	ND	50	250	"	"	"	"	"	"		
PCB-1232	ND	62	250	"	"	"	"	"	"		
PCB-1242	ND	41	250	"	"	"	"	"	"		
PCB-1248	ND	29	250	"	"	"	"	"	"		
<b>PCB-1254</b>	<b>1000</b>	29	250	"	"	"	"	"	"		
<b>PCB-1260</b>	<b>640</b>	34	250	"	"	"	"	"	"		
<i>Surrogate: Tetrachloro-meta-xylene</i>		105 %	43-112			"	"	"	"		
<i>Surrogate: Decachlorobiphenyl</i>		51.0 %	17-110			"	"	"	"		
<b>TP-101 (2) (KQE0739-04) Soil Sampled: 05/23/07 08:30 Received: 05/23/07 15:45</b>											<b>DILN</b>
PCB-1016	ND	80	500	ug/kg dry	10	7053037	05/31/07	06/07/07	EPA 8082		
PCB-1221	ND	100	500	"	"	"	"	"	"		
PCB-1232	ND	120	500	"	"	"	"	"	"		
PCB-1242	ND	82	500	"	"	"	"	"	"		
PCB-1248	ND	58	500	"	"	"	"	"	"		
<b>PCB-1254</b>	<b>1800</b>	59	500	"	"	"	"	"	"		
<b>PCB-1260</b>	<b>1800</b>	69	500	"	"	"	"	"	"		
<i>Surrogate: Tetrachloro-meta-xylene</i>		74.0 %	43-112			"	"	"	"		
<i>Surrogate: Decachlorobiphenyl</i>		110 %	17-110			"	"	"	"		

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Enid Dunmire, Project Manager



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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-10 Project Manager: Craig Herr	Reported: 06/11/07 16:49
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit	Units						
<b>TP-101 (6) (KQE0739-06) Soil Sampled: 05/23/07 08:40 Received: 05/23/07 15:45</b> <span style="float:right"><b>DILN</b></span>										
PCB-1016	ND	800	5000	ug/kg dry	100	7053037	05/31/07	06/07/07	EPA 8082	
PCB-1221	ND	1000	5000	"	"	"	"	"	"	
PCB-1232	ND	1200	5000	"	"	"	"	"	"	
PCB-1242	ND	820	5000	"	"	"	"	"	"	
PCB-1248	ND	580	5000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>13000</b>	590	5000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>15000</b>	690	5000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11
<b>TP-103 (2) (KQE0739-09) Soil Sampled: 05/23/07 09:35 Received: 05/23/07 15:45</b> <span style="float:right"><b>10, DILN</b></span>										
PCB-1016	ND	400	2500	ug/kg dry	50	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	500	2500	"	"	"	"	"	"	
PCB-1232	ND	620	2500	"	"	"	"	"	"	
PCB-1242	ND	410	2500	"	"	"	"	"	"	
PCB-1248	ND	290	2500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>6500</b>	290	2500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>3600</b>	340	2500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11
<b>TP-103 (6) (KQE0739-10) Soil Sampled: 05/23/07 09:30 Received: 05/23/07 15:45</b> <span style="float:right"><b>DILN</b></span>										
PCB-1016	ND	160	1000	ug/kg dry	20	7053037	05/31/07	06/07/07	EPA 8082	
PCB-1221	ND	200	1000	"	"	"	"	"	"	
PCB-1232	ND	250	1000	"	"	"	"	"	"	
PCB-1242	ND	160	1000	"	"	"	"	"	"	
PCB-1248	ND	120	1000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>5100</b>	120	1000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>4000</b>	140	1000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11

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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-10 Project Manager: Craig Herr	Reported: 06/11/07 16:49
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-105 (2) (KQE0739-14) Soil</b> Sampled: 05/23/07 10:05 Received: 05/23/07 15:45										<b>DILN</b>
PCB-1016	ND	80000	500000	ug/kg dry	10000	7053037	05/31/07	06/07/07	EPA 8082	
PCB-1221	ND	100000	500000	"	"	"	"	"	"	
PCB-1232	ND	120000	500000	"	"	"	"	"	"	
PCB-1242	ND	82000	500000	"	"	"	"	"	"	
PCB-1248	ND	58000	500000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>870000</b>	59000	500000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1500000</b>	69000	500000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11
<b>TP-105 (6) (KQE0739-15) Soil</b> Sampled: 05/23/07 10:10 Received: 05/23/07 15:45										<b>10, DILN</b>
PCB-1016	ND	800	5000	ug/kg dry	100	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	1000	5000	"	"	"	"	"	"	
PCB-1232	ND	1200	5000	"	"	"	"	"	"	
PCB-1242	ND	820	5000	"	"	"	"	"	"	
PCB-1248	ND	580	5000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>9500</b>	590	5000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>11000</b>	690	5000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11
<b>TP-106 (1) (KQE0739-16) Soil</b> Sampled: 05/23/07 10:30 Received: 05/23/07 15:45										<b>10, DILN</b>
PCB-1016	ND	80000	500000	ug/kg dry	10000	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	100000	500000	"	"	"	"	"	"	
PCB-1232	ND	120000	500000	"	"	"	"	"	"	
PCB-1242	ND	82000	500000	"	"	"	"	"	"	
PCB-1248	ND	58000	500000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>700000</b>	59000	500000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>350000</b>	69000	500000	"	"	"	"	"	"	J
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11

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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-10 Project Manager: Craig Herr	Reported: 06/11/07 16:49
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit	Units						
<b>TP-106 (3) (KQE0739-17) Soil</b> Sampled: 05/23/07 10:35 Received: 05/23/07 15:45										<b>DILN</b>
PCB-1016	ND	40	250	ug/kg dry	5	7053037	05/31/07	06/07/07	EPA 8082	
PCB-1221	ND	50	250	"	"	"	"	"	"	
PCB-1232	ND	62	250	"	"	"	"	"	"	
PCB-1242	ND	41	250	"	"	"	"	"	"	
PCB-1248	ND	29	250	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>920</b>	29	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>830</b>	34	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		96.5 %	43-112		"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		92.5 %	17-110		"	"	"	"	"	
<b>TP-106 (5) (KQE0739-18) Soil</b> Sampled: 05/23/07 10:40 Received: 05/23/07 15:45										<b>10, DILN</b>
PCB-1016	ND	80	500	ug/kg dry	10	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	100	500	"	"	"	"	"	"	
PCB-1232	ND	120	500	"	"	"	"	"	"	
PCB-1242	ND	82	500	"	"	"	"	"	"	
PCB-1248	ND	58	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1600</b>	59	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>730</b>	69	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		69.8 %	43-112		"	"	"	"	"	011
<i>Surrogate: Decachlorobiphenyl</i>		54.1 %	17-110		"	"	"	"	"	011
<b>TP-110 (1) (KQE0739-28) Soil</b> Sampled: 05/23/07 12:15 Received: 05/23/07 15:45										<b>10, DILN</b>
PCB-1016	ND	400	2500	ug/kg dry	50	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	500	2500	"	"	"	"	"	"	
PCB-1232	ND	620	2500	"	"	"	"	"	"	
PCB-1242	ND	410	2500	"	"	"	"	"	"	
PCB-1248	ND	290	2500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>8900</b>	290	2500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>4500</b>	340	2500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112		"	"	"	"	"	011
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110		"	"	"	"	"	011

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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-10 Project Manager: Craig Herr	Reported: 06/11/07 16:49
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TP-110 (3) (KQE0739-29) Soil**    **Sampled: 05/23/07 12:20**    **Received: 05/23/07 15:45**    **10, DILN**

PCB-1016	ND	80	500	ug/kg dry	10	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	100	500	"	"	"	"	"	"	
PCB-1232	ND	120	500	"	"	"	"	"	"	
PCB-1242	ND	82	500	"	"	"	"	"	"	
PCB-1248	ND	58	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1000</b>	59	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1500</b>	69	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		95.1 %	43-112			"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		93.0 %	17-110			"	"	"	"	

**TP-110 (6) (KQE0739-30) Soil**    **Sampled: 05/23/07 12:25**    **Received: 05/23/07 15:45**    **10, DILN**

PCB-1016	ND	4000	25000	ug/kg dry	500	7053037	05/31/07	06/08/07	EPA 8082	
PCB-1221	ND	5000	25000	"	"	"	"	"	"	
PCB-1232	ND	6200	25000	"	"	"	"	"	"	
PCB-1242	ND	4100	25000	"	"	"	"	"	"	
PCB-1248	ND	2900	25000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>49000</b>	2900	25000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>55000</b>	3400	25000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11

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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-10 Project Manager: Craig Herr	Reported: 06/11/07 16:49
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**Physical Parameters by APHA/ASTM/EPA Methods  
 TestAmerica - King Of Prussia, PA**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-100 (6) (KQE0739-01) Soil</b> <b>Sampled: 05/23/07 07:55</b> <b>Received: 05/23/07 15:45</b>										
% Solids	80.6		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-100 (3) (KQE0739-02) Soil</b> <b>Sampled: 05/23/07 08:00</b> <b>Received: 05/23/07 15:45</b>										
% Solids	84.3		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-100 (1) (KQE0739-03) Soil</b> <b>Sampled: 05/23/07 07:50</b> <b>Received: 05/23/07 15:45</b>										
% Solids	85.8		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-101 (2) (KQE0739-04) Soil</b> <b>Sampled: 05/23/07 08:30</b> <b>Received: 05/23/07 15:45</b>										
% Solids	85.5		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-101 (4) (KQE0739-05) Soil</b> <b>Sampled: 05/23/07 08:35</b> <b>Received: 05/23/07 15:45</b>										
% Solids	81.0		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-101 (6) (KQE0739-06) Soil</b> <b>Sampled: 05/23/07 08:40</b> <b>Received: 05/23/07 15:45</b>										
% Solids	84.8		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-102 (2) (KQE0739-07) Soil</b> <b>Sampled: 05/23/07 09:00</b> <b>Received: 05/23/07 15:45</b>										
% Solids	78.9		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-102 (5) (KQE0739-08) Soil</b> <b>Sampled: 05/23/07 09:05</b> <b>Received: 05/23/07 15:45</b>										
% Solids	81.8		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-103 (2) (KQE0739-09) Soil</b> <b>Sampled: 05/23/07 09:35</b> <b>Received: 05/23/07 15:45</b>										
% Solids	82.9		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	

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RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront  
 Project Number: 70588-10  
 Project Manager: Craig Herr

**Reported:**  
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**Physical Parameters by APHA/ASTM/EPA Methods  
 TestAmerica - King Of Prussia, PA**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-103 (6) (KQE0739-10) Soil</b> <b>Sampled: 05/23/07 09:30</b> <b>Received: 05/23/07 15:45</b>										
% Solids	83.5		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-104 (1) (KQE0739-11) Soil</b> <b>Sampled: 05/23/07 09:45</b> <b>Received: 05/23/07 15:45</b>										
% Solids	87.3		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-104 (3) (KQE0739-12) Soil</b> <b>Sampled: 05/23/07 09:50</b> <b>Received: 05/23/07 15:45</b>										
% Solids	84.5		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-104 (5) (KQE0739-13) Soil</b> <b>Sampled: 05/23/07 09:55</b> <b>Received: 05/23/07 15:45</b>										
% Solids	81.9		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-105 (2) (KQE0739-14) Soil</b> <b>Sampled: 05/23/07 10:05</b> <b>Received: 05/23/07 15:45</b>										
% Solids	82.3		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-105 (6) (KQE0739-15) Soil</b> <b>Sampled: 05/23/07 10:10</b> <b>Received: 05/23/07 15:45</b>										
% Solids	80.4		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-106 (1) (KQE0739-16) Soil</b> <b>Sampled: 05/23/07 10:30</b> <b>Received: 05/23/07 15:45</b>										
% Solids	88.7		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-106 (3) (KQE0739-17) Soil</b> <b>Sampled: 05/23/07 10:35</b> <b>Received: 05/23/07 15:45</b>										
% Solids	82.8		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-106 (5) (KQE0739-18) Soil</b> <b>Sampled: 05/23/07 10:40</b> <b>Received: 05/23/07 15:45</b>										
% Solids	84.7		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	

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RT ENVIRONMENTAL  
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Project: Riverfront  
 Project Number: 70588-10  
 Project Manager: Craig Herr

**Reported:**  
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**Physical Parameters by APHA/ASTM/EPA Methods  
 TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							
<b>TP-107 (2) (KQE0739-19) Soil    Sampled: 05/23/07 11:00    Received: 05/23/07 15:45</b>										
% Solids	85.0		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-107 (5) (KQE0739-20) Soil    Sampled: 05/23/07 11:05    Received: 05/23/07 15:45</b>										
% Solids	74.4		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-108 (1) (KQE0739-21) Soil    Sampled: 05/23/07 11:20    Received: 05/23/07 15:45</b>										
% Solids	86.1		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-108 (4) (KQE0739-22) Soil    Sampled: 05/23/07 11:25    Received: 05/23/07 15:45</b>										
% Solids	77.0		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-108 (6) (KQE0739-23) Soil    Sampled: 05/23/07 11:30    Received: 05/23/07 15:45</b>										
% Solids	76.6		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-108 (12) (KQE0739-24) Soil    Sampled: 05/23/07 11:35    Received: 05/23/07 15:45</b>										
% Solids	71.6		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-109 (2) (KQE0739-25) Soil    Sampled: 05/23/07 12:00    Received: 05/23/07 15:45</b>										
% Solids	91.9		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-109 (4) (KQE0739-26) Soil    Sampled: 05/23/07 12:05    Received: 05/23/07 15:45</b>										
% Solids	76.6		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	
<b>TP-109 (6) (KQE0739-27) Soil    Sampled: 05/23/07 12:10    Received: 05/23/07 15:45</b>										
% Solids	81.0		0.01	% by Weight	1	7060612	06/06/07	06/06/07	EPA 160.3	

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RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront  
 Project Number: 70588-10  
 Project Manager: Craig Herr

**Reported:**  
 06/11/07 16:49

**Physical Parameters by APHA/ASTM/EPA Methods  
 TestAmerica - King Of Prussia, PA**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-110 (1) (KQE0739-28) Soil</b> <b>Sampled: 05/23/07 12:15</b> <b>Received: 05/23/07 15:45</b>										
% Solids	82.1		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-110 (3) (KQE0739-29) Soil</b> <b>Sampled: 05/23/07 12:20</b> <b>Received: 05/23/07 15:45</b>										
% Solids	80.1		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	
<b>TP-110 (6) (KQE0739-30) Soil</b> <b>Sampled: 05/23/07 12:25</b> <b>Received: 05/23/07 15:45</b>										
% Solids	82.5		0.01	% by Weight	1	7053101	05/31/07	05/31/07	EPA 160.3	

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Enid Dunmire, Project Manager



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1090 King Georges Post Road - Suite 803 - Edison, NJ 08837 (732) 661-0777 - FAX (732) 661-0305

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-10  
Project Manager: Craig Herr

**Reported:**  
06/11/07 16:49

**Notes and Definitions**

- RPD The Relative Percent Difference was above the acceptance limit of 20%.
- O5 One or more surrogate recoveries were above the laboratory's established acceptance criteria.
- O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample.
- J The reported concentration for this analyte is an estimated value. The reported concentration is above the method detection limit, but below the limit of quantitation.
- G03 The laboratory control spike recoveries associated with this sample were above the laboratory's established acceptance criteria.
- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
- 10 This compound was below the method control limits in the Check Standard associated with this sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

TestAmerica - King Of Prussia, PA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Enid Dunmire, Project Manager

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: E-mail: C. Herr / T. Donovan		State & Program: PA DEP		DATE RESULTS NEEDED:	
Phone #: ( ) Fax #: ( )		Phone #: ( ) Fax #: ( )		Temp. Upon Receipt: <u>6</u>	

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
				MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
1 TP-100(6) PID:	5/23	7:55	Soil							1		X				KQEO739-01
2 TP-100(3) PID:		8:00														-02
3 TP-100(1) PID:		7:50														-03
4 TP-101(2) PID:		8:30														-04
5 TP-101(4) PID:		8:25														-05
6 TP-101(6) PID:		8:40														-06
7 TP-102(2) PID:		9:00														-07
8 TP-102(5) PID:		9:05														-08
9 TP-103(2) PID:		9:35														-09
10 TP-103(6) PID:		9:30														-10

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
DATE	DATE	DATE	DATE
TIME	TIME	TIME	TIME
INITIALS	INITIALS	INITIALS	INITIALS



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Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH / TD		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH / TD		Phone #: ( )		Temp. Upon Receipt:	
Phone #: ( )		Fax #: ( )			
Fax #: ( )		Phone #: ( )			
Fax #: ( )		Fax #: ( )		If Yes, please explain:	

Project Name: Riverfront PCB	Project #/PO#: 70588-10	Sampler: TD	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaFSCl	HCl	HNO3	H2SO4	NaOH	NONE				YES	NO	
1	TP-104(1)	PID:	5/23	945	Soil							11	X					KQE0739-11
2	TP-104(3)	PID:		950														-12
3	TP-104(5)	PID:		955														-13
4	TP-105(2)	PID:		1000														-14
5	TP-105(6)	PID:		1000														-15
6	TP-106(1)	PID:		1030														-16
7	TP-106(3)	PID:		1045														-17
8	TP-106(5)	PID:		1040														-18
9	TP-107(2)	PID:		1100														-19
10	TP-107(5)	PID:		1105														-20

RELINQUISHED	5/23/07	RECEIVED	5/23/07	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	1545	<i>[Signature]</i>	1545				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS: Hold

PAGE \_\_\_\_\_ OF \_\_\_\_\_

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Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: Kop		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH/TA		State & Program: PA DEP		DATE RESULTS NEEDED: 6	
E-mail: CH/TA		Phone #: ( )		Temp. Upon Receipt:	
Fax #: ( )		Phone #: ( )		Fax #: ( )	
If Yes, please explain:					

Project Name: Riverfront PCB	Project #/PO#: 70588-10	Sampler: TA	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
							MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
			1 TP-107(2)	5/23	1100	Soil								11	X				
			PID:																
			2 TP-107(5)		1105														
			PID:																
			3 TP-108(1)		1120														KA50739-21
			PID:																-22
			4 TP-108(4)		1125														-23
			PID:																-24
			5 TP-108(6)		1130														-25
			PID:																-26
			6 TP-108(12)		1135														-27
			PID:																-28
			7 TP-109(2)		1200														
			PID:																
			8 TP-109(4)		1205														
			PID:																
			9 TP-109(6)		1210														
			PID:																
			10 TP-110(1)		1215														
			PID:																

RELINQUISHED	5/23/07	RECEIVED	5/23/07	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	1544	<i>[Signature]</i>	1545				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS: Hold

\* sample on chain twice kl 5/25/07

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Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/TD</b> Phone #: ( )		State & Program: <b>PA DEP</b> Phone #: ( )		DATE RESULTS NEEDED:	
E-mail: <b>CH/TD</b> Fax #: ( )				Temp. Upon Receipt: <b>6</b>	

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
				HClO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE	CRACKED/BROKEN				IMPROPERLY SEALED		
1 TP-110(3) PID:	5/23	12 <sup>20</sup>	Soil							11	X					KQEO739-29
2 TP-110(6) PID:	1	12 <sup>25</sup>	1								1					-30
3 PID:																
4 PID:																
5 PID:																
6 PID:																
7 PID:																
8 PID:																
9 PID:																
10 PID:																

RELINQUISHED	5/23/07	RECEIVED	5/23/07	RELINQUISHED	DATE	RECEIVED	DATE
<i>The Dan</i>	15:45	<i>[Signature]</i>	15:45		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: **Hold**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**From:** Thomas Donovan [tdonovan@rtenv.com]

**Sent:** Wednesday, May 30, 2007 10:55 AM

**To:** Enid Dunmire

**Cc:** 'Craig Herr'

**Subject:** 70588-13 COC

Enid,

Attached are the samples we want to run for the Riverfront – PCB project. All samples will be run for PCBs on a 5 day turn. We need to have the samples by mid-day on June 6<sup>th</sup> to decide if we need to run more. Please let me know if this timing is a problem. Thanks.

**Thomas Donovan**

RT Environmental Services, Inc.

215 West Church Road

King of Prussia, PA 19406

(P) 610.265.1510 X41

(C) 610.733.3059

(F) 610.265.0687

tdonovan@rtenv.com

## CHAIN OF CUSTODY REPORT

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FAX (610) 337-9939

1090 King Georges Post Rd  
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Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>E-mail: Herr / Donovan</b>		State & Program: <b>PA DEP</b>		If Yes, please explain:	
Phone #: ( )		Phone #: ( )		DATE RESULTS NEEDED:	
Fax #: ( )		Fax #: ( )		Temp. Upon Receipt:	

Project Name: <b>Riverport PER</b>	Project #/PO#: <b>70588-10</b>	Sampler: <b>A</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE				YES	NO	
1	→ 100(6) -		5/23	7:15	Soil							1	1	X	Run			
2	→ 100(3) -			8:00											Run			
3	→ 100(1) -			7:50														
4	→ 101(2) -			8:30											Run			
5	→ 101(4)			8:24														
6	→ 101(6) -			8:40											Run			
7	→ 102(2)			9:00														
8	→ 102(5)			9:05														
9	→ 103(2) -			9:25											Run			
10	→ 103(6) -			9:30											Run			

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME	<i>[Signature]</i>	TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME	<i>[Signature]</i>	TIME		TIME		TIME

COMMENTS:

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Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH / TD</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>CH / TD</b>		Phone #: ( )		Temp. Upon Receipt:	
Fax #: ( )		Phone #: ( )		Fax #: ( )	
If Yes, please explain:					

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
					MeOH	NH4SCN	HCl	HNO3	H2SO4	NaOH	NONE					
1	→ 104(1)	5/22	945	SOIL									1	X		
2	→ 104(3)		950													
3	→ 104(5)		955													
4	→ 105(2)		1005												Run	
5	→ 105(6)		1010												Run	
6	→ 106(1)		1030												Run	
7	→ 106(3)		1035												Run	
8	→ 106(5)		1040												Run	
9	→ 107(2)		1100													
10	→ 107(5)		1105													

RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME	RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME

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Address: <b>KOD</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH / TD</b>	Phone #: ( )	State & Program: <b>PA DEP</b>	Phone #: ( )	DATE RESULTS NEEDED:	
E-mail:	Fax #: ( )		Fax #: ( )	Temp. Upon Receipt:	
If Yes, please explain:					

Project Name: <b>Riverfront PCB</b>	Project #/PO#: <b>70588-10-</b>	Sampler: <b>↓</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES REL. FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL <input type="checkbox"/> CRACKED <input type="checkbox"/> BROKEN <input type="checkbox"/> IMPROPERLY SEALED	LABORATORY ID NUMBER
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE					
FIELD ID LOCATION																	
1	TP-107(2)		5/22	1100	Soil								1	1	X		
	PID:																
2	TP-107(5)			1155													
	PID:																
3	TP-108(1)			1120													
	PID:																
4	TP-108(4)			1125													
	PID:																
5	TP-108(6)			1120													
	PID:																
6	TP-108(12)			1125													
	PID:																
7	TP-109(2)			1200													
	PID:																
8	TP-109(4)			1205													
	PID:																
9	TP-109(6)			1210													
	PID:																
10	TP-110(1) -			1215													
	PID:																

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	5/22/07	<i>[Signature]</i>	5/22/07				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS: **Hold**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

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Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/MS</b> Phone #: ( )		State & Program: <b>PA DEP</b> Phone #: ( )		DATE RESULTS NEEDED:	
E-mail: <b>CH/MS</b> Fax #: ( )				Temp. Upon Receipt:	
If Yes, please explain:					

Project Name: <b>Riverfront PCB</b>	Project #/PO#: <b>70588-10 -</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL <input type="checkbox"/> CRACKED/BROKEN <input type="checkbox"/> IMPROPERLY SEALED	LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE					
<b>1</b>	<b>TP-110(2) -</b>		<b>5/22</b>	<b>12<sup>20</sup></b>	<b>Soil</b>								<b>11</b>	<b>x</b>	<b>Run</b>		
<b>2</b>	<b>TP-110(6) -</b>		<b>1</b>	<b>12<sup>25</sup></b>	<b>1</b>									<b>1</b>	<b>Run</b>		
<b>3</b>																	
<b>4</b>																	
<b>5</b>																	
<b>6</b>																	
<b>7</b>																	
<b>8</b>																	
<b>9</b>																	
<b>10</b>																	

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	<b>5/27</b>	<i>[Signature]</i>	<b>5/27</b>				
	TIME		TIME		TIME		TIME
	<b>1:45</b>		<b>4:5</b>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME



**CHAIN OF CUSTODY REPORT**

Client: <b>RT ENV</b>	Bill To: <b>SAME</b>	TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.
Address: <b>KOP</b>	Address:	Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient
Report to: <b>CHAD</b> Phone #: ( )	State & Program: <b>PA DEP</b> Phone #: ( )	Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES
E-mail: <b>CHAD</b> Fax #: ( )		Temp. Upon Receipt:
Project Name: <b>Riverfront PCB</b>		Terms: <b>Net 30 days</b>
Project #/PO#: <b>70588</b>		
Sampler: <b>A</b>		
If Yes, please explain:		

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES SAMPLED FILTERED DYES: <b>PCB</b>	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
					MEOH	MESOL	HCl	HNO3	H2SO4	NaOH	NONE			CRACKED/BROKEN	IMPROPERLY SEALED	
1	TP-111(2)	8/24	850	SL							1	1	Run			
2	TP-111(4)		855													
3	TP-111(6)		900										Run			
4	TP-111(11)		905										Run			
5	TP-112(1)		920										Run			
6	TP-112(3)		925													
7	TP-112(5)		940										Run			
8	TP-112(12)		945										Run			
9	TP-115(2)		1015													
10	TP-113(6)		1020													

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	TIME	<i>[Signature]</i>	TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS:

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Address: KOP	Address:	Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient
Report to: CH/TS	Phone #: ( )	Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES
E-mail: CH/TS	Fax #: ( )	Temp. Upon Receipt:
State & Program: PA DEP	Phone #: ( )	
	Fax #: ( )	

Project Name: Riverfront PCB	Project #/PO#: 70588	Sampler: A	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHCO <sub>3</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
FIELD ID LOCATION																		
1	<del>TP-113(10)</del>		5/24	10 <sup>25</sup>	SOIL							1	1	x				
2	TP-113(10) PID:			11 <sup>30</sup>											Run			
3	TP-114(2) PID:			11 <sup>35</sup>											Run			
4	TP-114(5) PID:			11 <sup>40</sup>											Run			
5	TP-114(10) PID:			11 <sup>45</sup>											Run			
6	TP-114(12) PID:			12 <sup>00</sup>											Run			
7	TP-115(1) PID:			12 <sup>05</sup>											Run			
8	TP-115(6) PID:			12 <sup>00</sup>											Run			
9	TP-115(11) PID:			13 <sup>00</sup>											Run			
10	TP-116(2) PID:			13 <sup>15</sup>														

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: HOLD

PAGE OF

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>	Bill To: <b>SAME</b>	TAT: STD: <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.
Address: <b>KOP</b>	Address:	Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient
Report to: <b>CH/AD</b> Phone #: ( )	State & Program: <b>PA DEP</b> Phone #: ( )	Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES
E-mail: <b>CH/AD</b> Fax #: ( )	Terms: <b>Net 30 days</b>	DATE RESULTS NEEDED:
Project Name: <b>Riverfront PCB</b>		Temp. Upon Receipt:
Project #/PO#: <b>T0528</b>		If Yes, please explain:
Sampler: <b>TD</b>		

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLER FILTERED Y/N	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER	
					MeOH	NaHSO <sub>4</sub>	PCl <sub>5</sub>	TMOP	MASSOX	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED		
1	TP-116(11)	5/24	13:20	B.C.							1	1	2					
2	TD-117(1)		14:00															Run
3	TD-117(3)		14:05															Run
4	TD-117(6)		14:10															Run
5	TD-117(10)		14:15															Run
6																		
7																		
8																		
9																		
10																		

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>	5/24/07 15:00	<i>[Signature]</i>	5/24/07 16:00				
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS: **HOLD**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

70588-13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1008 W 9th Ave - King of Prussia, Pa 19406

(610) 337-9992 - FAX (610) 337-9939

15 November 2007

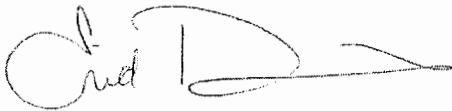
**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront

Enclosed are the results of analyses for samples received by the laboratory on 10/19/07 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Enid Dunmire". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-130 (2)	KQJ0501-01	Soil	10/18/07 10:00	10/19/07 15:20
TP-130 (4)	KQJ0501-02	Soil	10/18/07 10:00	10/19/07 15:20
TP-130 (8)	KQJ0501-03	Soil	10/18/07 10:00	10/19/07 15:20
TP-131 (2)	KQJ0501-04	Soil	10/18/07 10:30	10/19/07 15:20
TP-131 (5)	KQJ0501-05	Soil	10/18/07 10:30	10/19/07 15:20
TP-131 (10)	KQJ0501-06	Soil	10/18/07 10:30	10/19/07 15:20
TP-132 (1)	KQJ0501-07	Soil	10/18/07 10:50	10/19/07 15:20
TP-132 (3)	KQJ0501-08	Soil	10/18/07 10:50	10/19/07 15:20
TP-132 (8)	KQJ0501-09	Soil	10/18/07 10:50	10/19/07 15:20
TP-133 (2)	KQJ0501-10	Soil	10/18/07 11:20	10/19/07 15:20
TP-133 (6)	KQJ0501-11	Soil	10/18/07 11:20	10/19/07 15:20
TP-133 (10)	KQJ0501-12	Soil	10/18/07 11:20	10/19/07 15:20
TP-134 (2)	KQJ0501-13	Soil	10/18/07 11:45	10/19/07 15:20
TP-134 (4)	KQJ0501-14	Soil	10/18/07 11:45	10/19/07 15:20
TP-134 (7)	KQJ0501-15	Soil	10/18/07 11:45	10/19/07 15:20
TP-135 (2)	KQJ0501-16	Soil	10/18/07 12:20	10/19/07 15:20
TP-135 (5)	KQJ0501-17	Soil	10/18/07 12:20	10/19/07 15:20
TP-135 (9)	KQJ0501-18	Soil	10/18/07 12:20	10/19/07 15:20
TP-136 (1)	KQJ0501-19	Soil	10/18/07 12:45	10/19/07 15:20
TP-136 (5)	KQJ0501-20	Soil	10/18/07 12:45	10/19/07 15:20
TP-136 (8)	KQJ0501-21	Soil	10/18/07 12:45	10/19/07 15:20
TP-136 - Blue Material	KQJ0501-22	Soil	10/18/07 12:45	10/19/07 15:20
TP-137 (2)	KQJ0501-23	Soil	10/18/07 13:10	10/19/07 15:20
TP-137 (5)	KQJ0501-24	Soil	10/18/07 13:10	10/19/07 15:20
TP-137 (8)	KQJ0501-25	Soil	10/18/07 13:10	10/19/07 15:20
TP-138 (2)	KQJ0501-26	Soil	10/18/07 13:35	10/19/07 15:20

TestAmerica - King Of Prussia, PA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-138 (6)	KQJ0501-27	Soil	10/18/07 13:35	10/19/07 15:20
TP-138 (9)	KQJ0501-28	Soil	10/18/07 13:35	10/19/07 15:20
TP-139 (2)	KQJ0501-29	Soil	10/18/07 14:10	10/19/07 15:20
TP-139 (5)	KQJ0501-30	Soil	10/18/07 14:10	10/19/07 15:20
TP-139 (9)	KQJ0501-31	Soil	10/18/07 14:10	10/19/07 15:20
140 (1)	KQJ0501-32	Soil	10/18/07 14:30	10/19/07 15:20
140 (4)	KQJ0501-33	Soil	10/18/07 14:30	10/19/07 15:20
140 (7)	KQJ0501-34	Soil	10/18/07 14:30	10/19/07 15:20
141 (1)	KQJ0501-35	Soil	10/19/07 07:40	10/19/07 15:20
141 (4)	KQJ0501-36	Soil	10/19/07 07:40	10/19/07 15:20
142 (1)	KQJ0501-37	Soil	10/19/07 08:00	10/19/07 15:20
142 (4)	KQJ0501-38	Soil	10/19/07 08:00	10/19/07 15:20
143 (2)	KQJ0501-39	Soil	10/19/07 08:30	10/19/07 15:20
143 (5)	KQJ0501-40	Soil	10/19/07 08:30	10/19/07 15:20
144 (1)	KQJ0501-41	Soil	10/19/07 08:45	10/19/07 15:20
144 (4)	KQJ0501-42	Soil	10/19/07 08:45	10/19/07 15:20
145 (1)	KQJ0501-43	Soil	10/19/07 09:00	10/19/07 15:20
145 (3)	KQJ0501-44	Soil	10/19/07 09:00	10/19/07 15:20
146 (2)	KQJ0501-45	Soil	10/19/07 09:20	10/19/07 15:20
146 (4)	KQJ0501-46	Soil	10/19/07 09:20	10/19/07 15:20
150 (2)	KQJ0501-47	Soil	10/19/07 10:50	10/19/07 15:20
150 (6)	KQJ0501-48	Soil	10/19/07 10:50	10/19/07 15:20
150 (13)	KQJ0501-49	Soil	10/19/07 10:50	10/19/07 15:20
151 (2)	KQJ0501-50	Soil	10/19/07 11:30	10/19/07 15:20
151 (6)	KQJ0501-51	Soil	10/19/07 11:30	10/19/07 15:20
151 (13)	KQJ0501-52	Soil	10/19/07 11:30	10/19/07 15:20

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
152 (2)	KQJ0501-53	Soil	10/19/07 12:15	10/19/07 15:20
152 (6)	KQJ0501-54	Soil	10/19/07 12:15	10/19/07 15:20
152 (13)	KQJ0501-55	Soil	10/19/07 12:15	10/19/07 15:20



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

Reported:  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082 TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-130 (2) (KQJ0501-01) Soil</b> Sampled: 10/18/07 10:00 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	500	ug/kg dry	10	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
PCB-1248	ND	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1900</b>	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>890</b>	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		85.4 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		46.1 %	17-110	"	"	"	"	"	
<b>TP-130 (4) (KQJ0501-02) Soil</b> Sampled: 10/18/07 10:00 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7102315	10/24/07	10/31/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		63.9 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		19.8 %	17-110	"	"	"	"	"	
<b>TP-130 (8) (KQJ0501-03) Soil</b> Sampled: 10/18/07 10:00 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	330	ug/kg dry	5	7102315	10/24/07	10/31/07	EPA 8082	
PCB-1221	ND	330	"	"	"	"	"	"	
PCB-1232	ND	330	"	"	"	"	"	"	
PCB-1242	ND	330	"	"	"	"	"	"	
PCB-1248	ND	330	"	"	"	"	"	"	
PCB-1254	ND	330	"	"	"	"	"	"	
PCB-1260	ND	330	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		52.4 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		19.1 %	17-110	"	"	"	"	"	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-131 (2) (KQJ0501-04) Soil</b> Sampled: 10/18/07 10:30 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		41.9 %	43-112		"	"	"	"	O4
Surrogate: Decachlorobiphenyl		10.7 %	17-110		"	"	"	"	O4
<b>TP-131 (5) (KQJ0501-05) Soil</b> Sampled: 10/18/07 10:30 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	100	ug/kg dry	2	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
PCB-1260	ND	100	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		102 %	43-112		"	"	"	"	
Surrogate: Decachlorobiphenyl		15.8 %	17-110		"	"	"	"	O4
<b>TP-131 (10) (KQJ0501-06) Soil</b> Sampled: 10/18/07 10:30 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	69	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	69	"	"	"	"	"	"	
PCB-1232	ND	69	"	"	"	"	"	"	
PCB-1242	ND	69	"	"	"	"	"	"	
PCB-1248	ND	69	"	"	"	"	"	"	
PCB-1254	ND	69	"	"	"	"	"	"	
PCB-1260	ND	69	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		99.0 %	43-112		"	"	"	"	
Surrogate: Decachlorobiphenyl		23.3 %	17-110		"	"	"	"	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

Reported:  
11/15/07 17:11

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-132 (1) (KQJ0501-07) Soil</b> <b>Sampled: 10/18/07 10:50</b> <b>Received: 10/19/07 15:20</b>									<b>DILN</b>
PCB-1016	ND	2000	ug/kg dry	40	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	2000	"	"	"	"	"	"	
PCB-1232	ND	2000	"	"	"	"	"	"	
PCB-1242	ND	2000	"	"	"	"	"	"	
PCB-1248	ND	2000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>10000</b>	2000	"	"	"	"	"	"	E
<b>PCB-1260</b>	<b>5600</b>	2000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-132 (3) (KQJ0501-08) Soil</b> <b>Sampled: 10/18/07 10:50</b> <b>Received: 10/19/07 15:20</b>									<b>10</b>
PCB-1016	ND	63	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	63	"	"	"	"	"	"	
PCB-1232	ND	63	"	"	"	"	"	"	
PCB-1242	ND	63	"	"	"	"	"	"	
PCB-1248	ND	63	"	"	"	"	"	"	
PCB-1254	ND	63	"	"	"	"	"	"	
PCB-1260	ND	63	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		122 %	43-112	"	"	"	"	"	O5
<i>Surrogate: Decachlorobiphenyl</i>		21.0 %	17-110	"	"	"	"	"	
<b>TP-132 (8) (KQJ0501-09) Soil</b> <b>Sampled: 10/18/07 10:50</b> <b>Received: 10/19/07 15:20</b>									<b>10</b>
PCB-1016	ND	63	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	63	"	"	"	"	"	"	
PCB-1232	ND	63	"	"	"	"	"	"	
PCB-1242	ND	63	"	"	"	"	"	"	
PCB-1248	ND	63	"	"	"	"	"	"	
PCB-1254	ND	63	"	"	"	"	"	"	
PCB-1260	ND	63	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		106 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		17.7 %	17-110	"	"	"	"	"	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-133 (2) (KQJ0501-10) Soil</b> Sampled: 10/18/07 11:20 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	500	ug/kg dry	10	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>720</b>	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>2300</b>	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>2100</b>	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		58.5 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		76.5 %	17-110	"	"	"	"	"	
<b>TP-133 (6) (KQJ0501-11) Soil</b> Sampled: 10/18/07 11:20 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	330	ug/kg dry	5	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	330	"	"	"	"	"	"	
PCB-1232	ND	330	"	"	"	"	"	"	
PCB-1242	ND	330	"	"	"	"	"	"	
PCB-1248	ND	330	"	"	"	"	"	"	
PCB-1254	ND	330	"	"	"	"	"	"	
PCB-1260	ND	330	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		40.0 %	43-112	"	"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		4.50 %	17-110	"	"	"	"	"	O4
<b>TP-133 (10) (KQJ0501-12) Soil</b> Sampled: 10/18/07 11:20 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	70	ug/kg dry	2	7102315	10/24/07	10/30/07	EPA 8082	G01
PCB-1221	ND	70	"	"	"	"	"	"	
PCB-1232	ND	70	"	"	"	"	"	"	
PCB-1242	ND	70	"	"	"	"	"	"	
PCB-1248	ND	70	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>270</b>	70	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>86</b>	70	"	"	"	"	"	"	G01
<i>Surrogate: Tetrachloro-meta-xylene</i>		93.0 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		15.8 %	17-110	"	"	"	"	"	O4

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-134 (2) (KQJ0501-13) Soil Sampled: 10/18/07 11:45 Received: 10/19/07 15:20</b> <span style="float: right;"><b>10</b></span>									
PCB-1016	ND	50	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		80.9 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		14.2 %	17-110	"	"	"	"	"	O4
<b>TP-134 (4) (KQJ0501-14) Soil Sampled: 10/18/07 11:45 Received: 10/19/07 15:20</b> <span style="float: right;"><b>10</b></span>									
PCB-1016	ND	39	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	39	"	"	"	"	"	"	
PCB-1232	ND	39	"	"	"	"	"	"	
PCB-1242	ND	39	"	"	"	"	"	"	
PCB-1248	ND	39	"	"	"	"	"	"	
PCB-1254	ND	39	"	"	"	"	"	"	
PCB-1260	ND	39	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		105 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		16.0 %	17-110	"	"	"	"	"	O4
<b>TP-134 (7) (KQJ0501-15) Soil Sampled: 10/18/07 11:45 Received: 10/19/07 15:20</b> <span style="float: right;"><b>10</b></span>									
PCB-1016	ND	64	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	64	"	"	"	"	"	"	
PCB-1232	ND	64	"	"	"	"	"	"	
PCB-1242	ND	64	"	"	"	"	"	"	
PCB-1248	ND	64	"	"	"	"	"	"	
PCB-1254	ND	64	"	"	"	"	"	"	
PCB-1260	ND	64	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		106 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		11.0 %	17-110	"	"	"	"	"	O4

TestAmerica - King Of Prussia, PA

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RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

Reported:  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-135 (2) (KQJ0501-16) Soil</b> Sampled: 10/18/07 12:20 Received: 10/19/07 15:20									<b>11, DILN</b>
PCB-1016	ND	1300	ug/kg dry	20	7102315	10/24/07	11/06/07	EPA 8082	
PCB-1221	ND	1300	"	"	"	"	"	"	
PCB-1232	ND	1300	"	"	"	"	"	"	
PCB-1242	ND	1300	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>5400</b>	1300	"	"	"	"	"	"	E
<b>PCB-1254</b>	<b>12000</b>	1300	"	"	"	"	"	"	E
<b>PCB-1260</b>	<b>17000</b>	1300	"	"	"	"	"	"	E
Surrogate: Tetrachloro-meta-xylene		%	43-112	"	"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110	"	"	"	"	"	O11
<b>TP-135 (5) (KQJ0501-17) Soil</b> Sampled: 10/18/07 12:20 Received: 10/19/07 15:20									<b>11, DILN</b>
PCB-1016	ND	10000	ug/kg dry	200	7102315	10/24/07	11/06/07	EPA 8082	
PCB-1221	ND	10000	"	"	"	"	"	"	
PCB-1232	ND	10000	"	"	"	"	"	"	
PCB-1242	ND	10000	"	"	"	"	"	"	
PCB-1248	ND	10000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>24000</b>	10000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>19000</b>	10000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112	"	"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110	"	"	"	"	"	O11
<b>TP-135 (9) (KQJ0501-18) Soil</b> Sampled: 10/18/07 12:20 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	40	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	40	"	"	"	"	"	"	
PCB-1232	ND	40	"	"	"	"	"	"	
PCB-1242	ND	40	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>230</b>	40	"	"	"	"	"	"	E
<b>PCB-1254</b>	<b>280</b>	40	"	"	"	"	"	"	E
<b>PCB-1260</b>	<b>140</b>	40	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		93.4 %	43-112	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		12.9 %	17-110	"	"	"	"	"	O4

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-136 (1) (KQJ0501-19) Soil</b> Sampled: 10/18/07 12:45 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		119 %	43-112	"	"	"	"	"	O5
Surrogate: Decachlorobiphenyl		13.8 %	17-110	"	"	"	"	"	O4
<b>TP-136 (5) (KQJ0501-20) Soil</b> Sampled: 10/18/07 12:45 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	180	ug/kg dry	5	7102315	10/24/07	10/30/07	EPA 8082	
PCB-1221	ND	180	"	"	"	"	"	"	
PCB-1232	ND	180	"	"	"	"	"	"	
PCB-1242	ND	180	"	"	"	"	"	"	
PCB-1248	<b>1100</b>	180	"	"	"	"	"	"	E
PCB-1254	<b>980</b>	180	"	"	"	"	"	"	E
PCB-1260	<b>540</b>	180	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		63.5 %	43-112	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		4.75 %	17-110	"	"	"	"	"	O4
<b>TP-136 (8) (KQJ0501-21) Soil</b> Sampled: 10/18/07 12:45 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	70000	ug/kg dry	1000	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	70000	"	"	"	"	"	"	
PCB-1232	ND	70000	"	"	"	"	"	"	
PCB-1242	ND	70000	"	"	"	"	"	"	
PCB-1248	ND	70000	"	"	"	"	"	"	
PCB-1254	ND	70000	"	"	"	"	"	"	
PCB-1260	<b>150000</b>	70000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112	"	"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110	"	"	"	"	"	O11

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-136 - Blue Material (KQJ0501-22) Soil</b> <b>Sampled: 10/18/07 12:45</b> <b>Received: 10/19/07 15:20</b> <b>10, DILN</b>									
PCB-1016	ND	8100	ug/kg dry	100	7102422	10/25/07	10/26/07	EPA 8082	
PCB-1221	ND	8100	"	"	"	"	"	"	
PCB-1232	ND	8100	"	"	"	"	"	"	
PCB-1242	ND	8100	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>19000</b>	8100	"	"	"	"	"	"	
PCB-1254	ND	8100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>34000</b>	8100	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-137 (2) (KQJ0501-23) Soil</b> <b>Sampled: 10/18/07 13:10</b> <b>Received: 10/19/07 15:20</b> <b>DILN</b>									
PCB-1016	ND	5000	ug/kg dry	100	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	5000	"	"	"	"	"	"	
PCB-1232	ND	5000	"	"	"	"	"	"	
PCB-1242	ND	5000	"	"	"	"	"	"	
PCB-1248	ND	5000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>16000</b>	5000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>7200</b>	5000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-137 (5) (KQJ0501-24) Soil</b> <b>Sampled: 10/18/07 13:10</b> <b>Received: 10/19/07 15:20</b> <b>DILN</b>									
PCB-1016	ND	25000	ug/kg dry	500	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	25000	"	"	"	"	"	"	
PCB-1232	ND	25000	"	"	"	"	"	"	
PCB-1242	ND	25000	"	"	"	"	"	"	
PCB-1248	ND	25000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>100000</b>	25000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>55000</b>	25000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11

TestAmerica - King Of Prussia, PA

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Enid Dum mire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082 TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-137 (8) (KQJ0501-25) Soil</b> <b>Sampled: 10/18/07 13:10</b> <b>Received: 10/19/07 15:20</b> <b>DILN</b>									
PCB-1016	ND	3300	ug/kg dry	50	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	3300	"	"	"	"	"	"	
PCB-1232	ND	3300	"	"	"	"	"	"	
PCB-1242	ND	3300	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>10000</b>	3300	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>11000</b>	3300	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>5400</b>	3300	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-138 (2) (KQJ0501-26) Soil</b> <b>Sampled: 10/18/07 13:35</b> <b>Received: 10/19/07 15:20</b> <b>DILN</b>									
PCB-1016	ND	500	ug/kg dry	10	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
PCB-1248	ND	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>2300</b>	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1100</b>	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		80.5 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		42.7 %	17-110	"	"	"	"	"	
<b>TP-138 (6) (KQJ0501-27) Soil</b> <b>Sampled: 10/18/07 13:35</b> <b>Received: 10/19/07 15:20</b> <b>DILN</b>									
PCB-1016	ND	33000	ug/kg dry	500	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	33000	"	"	"	"	"	"	
PCB-1232	ND	33000	"	"	"	"	"	"	
PCB-1242	ND	33000	"	"	"	"	"	"	
PCB-1248	ND	33000	"	"	"	"	"	"	
PCB-1254	ND	33000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>44000</b>	33000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

Reported:  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082 TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-138 (9) (KQJ0501-28) Soil</b> Sampled: 10/18/07 13:35 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	5000	ug/kg dry	100	7102422	10/25/07	10/26/07	EPA 8082	
PCB-1221	ND	5000	"	"	"	"	"	"	
PCB-1232	ND	5000	"	"	"	"	"	"	
PCB-1242	ND	5000	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>13000</b>	5000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>22000</b>	5000	"	"	"	"	"	"	
PCB-1260	ND	5000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112	"	"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110	"	"	"	"	"	O11
<b>TP-139 (2) (KQJ0501-29) Soil</b> Sampled: 10/18/07 14:10 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	25000	ug/kg dry	500	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	25000	"	"	"	"	"	"	
PCB-1232	ND	25000	"	"	"	"	"	"	
PCB-1242	ND	25000	"	"	"	"	"	"	
PCB-1248	ND	25000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>120000</b>	25000	"	"	"	"	"	"	
PCB-1260	ND	25000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112	"	"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110	"	"	"	"	"	O11
<b>TP-139 (5) (KQJ0501-30) Soil</b> Sampled: 10/18/07 14:10 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/25/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>120</b>	50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>220</b>	50	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		84.4 %	43-112	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		22.1 %	17-110	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-139 (9) (KQJ0501-31) Soil</b> Sampled: 10/18/07 14:10 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	320	ug/kg dry	5	7102422	10/25/07	10/26/07	EPA 8082	
PCB-1221	ND	320	"	"	"	"	"	"	
PCB-1232	ND	320	"	"	"	"	"	"	
PCB-1242	ND	320	"	"	"	"	"	"	
PCB-1248	ND	320	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>360</b>	320	"	"	"	"	"	"	
PCB-1260	ND	320	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		80.5 %		43-112	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		12.3 %		17-110	"	"	"	"	O4
<b>140 (1) (KQJ0501-32) Soil</b> Sampled: 10/18/07 14:30 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	21000	ug/kg dry	250	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	21000	"	"	"	"	"	"	
PCB-1232	ND	21000	"	"	"	"	"	"	
PCB-1242	ND	21000	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>41000</b>	21000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>53000</b>	21000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>21000</b>	21000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11
<b>140 (4) (KQJ0501-33) Soil</b> Sampled: 10/18/07 14:30 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	6400	ug/kg dry	100	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	6400	"	"	"	"	"	"	
PCB-1232	ND	6400	"	"	"	"	"	"	
PCB-1242	ND	6400	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>19000</b>	6400	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>13000</b>	6400	"	"	"	"	"	"	
PCB-1260	ND	6400	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11

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Enid Dum mire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>140 (7) (KQJ0501-34) Soil</b> <b>Sampled: 10/18/07 14:30</b> <b>Received: 10/19/07 15:20</b>									<b>10, DILN</b>
PCB-1016	ND	320	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	320	"	"	"	"	"	"	
PCB-1232	ND	320	"	"	"	"	"	"	
PCB-1242	ND	320	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>540</b>	320	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>500</b>	320	"	"	"	"	"	"	
PCB-1260	ND	320	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		35.1 %	43-112		"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		15.3 %	17-110		"	"	"	"	O4
<b>141 (1) (KQJ0501-35) Soil</b> <b>Sampled: 10/19/07 07:40</b> <b>Received: 10/19/07 15:20</b>									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/25/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		84.2 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		20.9 %	17-110		"	"	"	"	
<b>141 (4) (KQJ0501-36) Soil</b> <b>Sampled: 10/19/07 07:40</b> <b>Received: 10/19/07 15:20</b>									<b>DILN, 10</b>
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>390</b>	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		90.4 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		24.3 %	17-110		"	"	"	"	

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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	<b>Reported:</b> 11/15/07 17:11
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>142 (1) (KQJ0501-37) Soil</b> <b>Sampled: 10/19/07 08:00</b> <b>Received: 10/19/07 15:20</b>									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/25/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		80.4 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		19.8 %	17-110		"	"	"	"	
<b>142 (4) (KQJ0501-38) Soil</b> <b>Sampled: 10/19/07 08:00</b> <b>Received: 10/19/07 15:20</b>									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/25/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		75.6 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		18.1 %	17-110		"	"	"	"	
<b>143 (2) (KQJ0501-39) Soil</b> <b>Sampled: 10/19/07 08:30</b> <b>Received: 10/19/07 15:20</b>									<b>10, DILN</b>
PCB-1016	ND	530	ug/kg dry	5	7102422	10/25/07	10/26/07	EPA 8082	
PCB-1221	ND	530	"	"	"	"	"	"	
PCB-1232	ND	530	"	"	"	"	"	"	
PCB-1242	ND	530	"	"	"	"	"	"	
PCB-1248	ND	530	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>2600</b>	530	"	"	"	"	"	"	
PCB-1260	ND	530	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		66.7 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		4.30 %	17-110		"	"	"	"	04

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>143 (5) (KQJ0501-40) Soil</b> Sampled: 10/19/07 08:30 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	500	ug/kg dry	10	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>1000</b>	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1300</b>	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>530</b>	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		94.8 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		48.8 %	17-110	"	"	"	"	"	
<b>144 (1) (KQJ0501-41) Soil</b> Sampled: 10/19/07 08:45 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>230</b>	50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>160</b>	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		13.8 %	43-112	"	"	"	"	"	O5
<i>Surrogate: Decachlorobiphenyl</i>		12.5 %	17-110	"	"	"	"	"	O4
<b>144 (4) (KQJ0501-42) Soil</b> Sampled: 10/19/07 08:45 Received: 10/19/07 15:20									<b>DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1300</b>	250	"	"	"	"	"	"	E
<i>Surrogate: Tetrachloro-meta-xylene</i>		59.4 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		36.0 %	17-110	"	"	"	"	"	O4

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

Reported:  
11/15/07 17:11

## Polychlorinated Biphenyls by EPA Method 8082 TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>145 (1) (KQJ0501-43) Soil</b> Sampled: 10/19/07 09:00 Received: 10/19/07 15:20 <span style="float: right;"><b>DILN</b></span>									
PCB-1016	ND	500	ug/kg dry	10	7102422	10/25/07	11/01/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
PCB-1248	ND	500	"	"	"	"	"	"	
PCB-1254	ND	500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1100</b>	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>145 (3) (KQJ0501-44) Soil</b> Sampled: 10/19/07 09:00 Received: 10/19/07 15:20 <span style="float: right;"><b>10, DILN</b></span>									
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>250</b>	250	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>560</b>	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		63.0 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		16.6 %	17-110	"	"	"	"	"	O4
<b>146 (2) (KQJ0501-45) Soil</b> Sampled: 10/19/07 09:20 Received: 10/19/07 15:20 <span style="float: right;"><b>DILN, 10</b></span>									
PCB-1016	ND	500	ug/kg dry	10	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
PCB-1248	ND	500	"	"	"	"	"	"	
PCB-1254	ND	500	"	"	"	"	"	"	
PCB-1260	ND	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11

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RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>146 (4) (KQJ0501-46) Soil</b> <b>Sampled: 10/19/07 09:20</b> <b>Received: 10/19/07 15:20</b>									<b>10, DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		41.4 %	43-112		"	"	"	"	O4
<i>Surrogate: Decachlorobiphenyl</i>		14.0 %	17-110		"	"	"	"	O4
<b>150 (2) (KQJ0501-47) Soil</b> <b>Sampled: 10/19/07 10:50</b> <b>Received: 10/19/07 15:20</b>									<b>10, DILN</b>
PCB-1016	ND	200	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	200	"	"	"	"	"	"	
PCB-1232	ND	200	"	"	"	"	"	"	
PCB-1242	ND	200	"	"	"	"	"	"	
PCB-1248	ND	200	"	"	"	"	"	"	
PCB-1254	ND	200	"	"	"	"	"	"	
PCB-1260	ND	200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		64.8 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		14.0 %	17-110		"	"	"	"	O4
<b>150 (6) (KQJ0501-48) Soil</b> <b>Sampled: 10/19/07 10:50</b> <b>Received: 10/19/07 15:20</b>									<b>10, DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		74.4 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		18.5 %	17-110		"	"	"	"	

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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>150 (13) (KQJ0501-49) Soil</b> <b>Sampled: 10/19/07 10:50</b> <b>Received: 10/19/07 15:20</b>									<b>10, DILN</b>
PCB-1016	ND	200	ug/kg dry	5	7102422	10/25/07	10/26/07	EPA 8082	
PCB-1221	ND	200	"	"	"	"	"	"	
PCB-1232	ND	200	"	"	"	"	"	"	
PCB-1242	ND	200	"	"	"	"	"	"	
PCB-1248	ND	200	"	"	"	"	"	"	
PCB-1254	ND	200	"	"	"	"	"	"	
PCB-1260	ND	200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		72.8 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		8.00 %	17-110		"	"	"	"	O4
<b>151 (2) (KQJ0501-50) Soil</b> <b>Sampled: 10/19/07 11:30</b> <b>Received: 10/19/07 15:20</b>									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		128 %	43-112		"	"	"	"	O5
<i>Surrogate: Decachlorobiphenyl</i>		12.1 %	17-110		"	"	"	"	O4
<b>151 (6) (KQJ0501-51) Soil</b> <b>Sampled: 10/19/07 11:30</b> <b>Received: 10/19/07 15:20</b>									
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		86.6 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		36.2 %	17-110		"	"	"	"	

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Enid Dunmire, Project Manager



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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>151 (13) (KQJ0501-52) Soil</b> Sampled: 10/19/07 11:30 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/26/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		51.5 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		32.6 %	17-110		"	"	"	"	
<b>152 (2) (KQJ0501-53) Soil</b> Sampled: 10/19/07 12:15 Received: 10/19/07 15:20									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>120</b>	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		157 %	43-112		"	"	"	"	O5
<i>Surrogate: Decachlorobiphenyl</i>		15.1 %	17-110		"	"	"	"	O4
<b>152 (6) (KQJ0501-54) Soil</b> Sampled: 10/19/07 12:15 Received: 10/19/07 15:20									<b>10, DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7102422	10/25/07	10/31/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>390</b>	250	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>540</b>	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>460</b>	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		69.5 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		30.9 %	17-110		"	"	"	"	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>152 (13) (KQJ0501-55) Soil</b>									<b>10</b>
<b>Sampled: 10/19/07 12:15 Received: 10/19/07 15:20</b>									
PCB-1016	ND	50	ug/kg dry	1	7102422	10/25/07	10/30/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		107 %		43-112	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		48.6 %		17-110	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	<b>Reported:</b> 11/15/07 17:11
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**General Chemistry**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-130 (2) (KQJ0501-01) Soil</b>	<b>Sampled: 10/18/07 10:00 Received: 10/19/07 15:20</b>								
% Solids	86.3	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-130 (4) (KQJ0501-02) Soil</b>	<b>Sampled: 10/18/07 10:00 Received: 10/19/07 15:20</b>								
% Solids	83.5	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-130 (8) (KQJ0501-03) Soil</b>	<b>Sampled: 10/18/07 10:00 Received: 10/19/07 15:20</b>								
% Solids	76.5	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-131 (2) (KQJ0501-04) Soil</b>	<b>Sampled: 10/18/07 10:30 Received: 10/19/07 15:20</b>								
% Solids	84.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-131 (5) (KQJ0501-05) Soil</b>	<b>Sampled: 10/18/07 10:30 Received: 10/19/07 15:20</b>								
% Solids	81.0	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-131 (10) (KQJ0501-06) Soil</b>	<b>Sampled: 10/18/07 10:30 Received: 10/19/07 15:20</b>								
% Solids	72.1	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-132 (1) (KQJ0501-07) Soil</b>	<b>Sampled: 10/18/07 10:50 Received: 10/19/07 15:20</b>								
% Solids	83.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-132 (3) (KQJ0501-08) Soil</b>	<b>Sampled: 10/18/07 10:50 Received: 10/19/07 15:20</b>								
% Solids	79.5	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-132 (8) (KQJ0501-09) Soil</b>	<b>Sampled: 10/18/07 10:50 Received: 10/19/07 15:20</b>								
% Solids	79.4	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## General Chemistry

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-133 (2) (KQJ0501-10) Soil Sampled: 10/18/07 11:20 Received: 10/19/07 15:20</b>									
% Solids	83.5	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-133 (6) (KQJ0501-11) Soil Sampled: 10/18/07 11:20 Received: 10/19/07 15:20</b>									
% Solids	76.2	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-133 (10) (KQJ0501-12) Soil Sampled: 10/18/07 11:20 Received: 10/19/07 15:20</b>									
% Solids	82.9	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-134 (2) (KQJ0501-13) Soil Sampled: 10/18/07 11:45 Received: 10/19/07 15:20</b>									
% Solids	82.2	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-134 (4) (KQJ0501-14) Soil Sampled: 10/18/07 11:45 Received: 10/19/07 15:20</b>									
% Solids	81.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-134 (7) (KQJ0501-15) Soil Sampled: 10/18/07 11:45 Received: 10/19/07 15:20</b>									
% Solids	77.8	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-135 (2) (KQJ0501-16) Soil Sampled: 10/18/07 12:20 Received: 10/19/07 15:20</b>									
% Solids	79.8	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-135 (5) (KQJ0501-17) Soil Sampled: 10/18/07 12:20 Received: 10/19/07 15:20</b>									
% Solids	80.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-135 (9) (KQJ0501-18) Soil Sampled: 10/18/07 12:20 Received: 10/19/07 15:20</b>									
% Solids	83.6	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## General Chemistry TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-136 (1) (KQJ0501-19) Soil Sampled: 10/18/07 12:45 Received: 10/19/07 15:20</b>									
% Solids	90.0	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-136 (5) (KQJ0501-20) Soil Sampled: 10/18/07 12:45 Received: 10/19/07 15:20</b>									
% Solids	85.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-136 (8) (KQJ0501-21) Soil Sampled: 10/18/07 12:45 Received: 10/19/07 15:20</b>									
% Solids	71.9	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-136 - Blue Material (KQJ0501-22) Soil Sampled: 10/18/07 12:45 Received: 10/19/07 15:20</b>									
% Solids	61.4	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-137 (2) (KQJ0501-23) Soil Sampled: 10/18/07 13:10 Received: 10/19/07 15:20</b>									
% Solids	87.3	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-137 (5) (KQJ0501-24) Soil Sampled: 10/18/07 13:10 Received: 10/19/07 15:20</b>									
% Solids	80.6	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-137 (8) (KQJ0501-25) Soil Sampled: 10/18/07 13:10 Received: 10/19/07 15:20</b>									
% Solids	76.9	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-138 (2) (KQJ0501-26) Soil Sampled: 10/18/07 13:35 Received: 10/19/07 15:20</b>									
% Solids	87.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-138 (6) (KQJ0501-27) Soil Sampled: 10/18/07 13:35 Received: 10/19/07 15:20</b>									
% Solids	76.2	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

**General Chemistry**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-138 (9) (KQJ0501-28) Soil Sampled: 10/18/07 13:35 Received: 10/19/07 15:20</b>									
% Solids	81.3	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-139 (2) (KQJ0501-29) Soil Sampled: 10/18/07 14:10 Received: 10/19/07 15:20</b>									
% Solids	81.4	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-139 (5) (KQJ0501-30) Soil Sampled: 10/18/07 14:10 Received: 10/19/07 15:20</b>									
% Solids	84.2	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>TP-139 (9) (KQJ0501-31) Soil Sampled: 10/18/07 14:10 Received: 10/19/07 15:20</b>									
% Solids	79.2	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>140 (1) (KQJ0501-32) Soil Sampled: 10/18/07 14:30 Received: 10/19/07 15:20</b>									
% Solids	79.8	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>140 (4) (KQJ0501-33) Soil Sampled: 10/18/07 14:30 Received: 10/19/07 15:20</b>									
% Solids	78.7	0.01 % by Weight		1	7102303	10/23/07	10/23/07	EPA 160.3	
<b>140 (7) (KQJ0501-34) Soil Sampled: 10/18/07 14:30 Received: 10/19/07 15:20</b>									
% Solids	77.6	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>141 (1) (KQJ0501-35) Soil Sampled: 10/19/07 07:40 Received: 10/19/07 15:20</b>									
% Solids	88.2	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>141 (4) (KQJ0501-36) Soil Sampled: 10/19/07 07:40 Received: 10/19/07 15:20</b>									
% Solids	84.0	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/15/07 17:11
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**General Chemistry**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>142 (1) (KQJ0501-37) Soil</b>	<b>Sampled: 10/19/07 08:00 Received: 10/19/07 15:20</b>								
% Solids	82.4	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>142 (4) (KQJ0501-38) Soil</b>	<b>Sampled: 10/19/07 08:00 Received: 10/19/07 15:20</b>								
% Solids	85.2	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>143 (2) (KQJ0501-39) Soil</b>	<b>Sampled: 10/19/07 08:30 Received: 10/19/07 15:20</b>								
% Solids	83.4	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>143 (5) (KQJ0501-40) Soil</b>	<b>Sampled: 10/19/07 08:30 Received: 10/19/07 15:20</b>								
% Solids	87.5	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>144 (1) (KQJ0501-41) Soil</b>	<b>Sampled: 10/19/07 08:45 Received: 10/19/07 15:20</b>								
% Solids	85.5	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>144 (4) (KQJ0501-42) Soil</b>	<b>Sampled: 10/19/07 08:45 Received: 10/19/07 15:20</b>								
% Solids	82.6	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>145 (1) (KQJ0501-43) Soil</b>	<b>Sampled: 10/19/07 09:00 Received: 10/19/07 15:20</b>								
% Solids	84.6	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>145 (3) (KQJ0501-44) Soil</b>	<b>Sampled: 10/19/07 09:00 Received: 10/19/07 15:20</b>								
% Solids	87.2	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>146 (2) (KQJ0501-45) Soil</b>	<b>Sampled: 10/19/07 09:20 Received: 10/19/07 15:20</b>								
% Solids	84.1	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## General Chemistry TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>146 (4) (KQJ0501-46) Soil    Sampled: 10/19/07 09:20    Received: 10/19/07 15:20</b>									
% Solids	82.2	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>150 (2) (KQJ0501-47) Soil    Sampled: 10/19/07 10:50    Received: 10/19/07 15:20</b>									
% Solids	90.8	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>150 (6) (KQJ0501-48) Soil    Sampled: 10/19/07 10:50    Received: 10/19/07 15:20</b>									
% Solids	89.2	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>150 (13) (KQJ0501-49) Soil    Sampled: 10/19/07 10:50    Received: 10/19/07 15:20</b>									
% Solids	88.4	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>151 (2) (KQJ0501-50) Soil    Sampled: 10/19/07 11:30    Received: 10/19/07 15:20</b>									
% Solids	89.0	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>151 (6) (KQJ0501-51) Soil    Sampled: 10/19/07 11:30    Received: 10/19/07 15:20</b>									
% Solids	86.6	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>151 (13) (KQJ0501-52) Soil    Sampled: 10/19/07 11:30    Received: 10/19/07 15:20</b>									
% Solids	86.6	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>152 (2) (KQJ0501-53) Soil    Sampled: 10/19/07 12:15    Received: 10/19/07 15:20</b>									
% Solids	89.7	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	
<b>152 (6) (KQJ0501-54) Soil    Sampled: 10/19/07 12:15    Received: 10/19/07 15:20</b>									
% Solids	92.0	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## General Chemistry TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>152 (13) (KQJ0501-55) Soil    Sampled: 10/19/07 12:15    Received: 10/19/07 15:20</b>									
% Solids	82.5	0.01 % by Weight		1	7102409	10/24/07	10/24/07	EPA 160.3	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/15/07 17:11

## Notes and Definitions

- O5 One or more surrogate recoveries were above the laboratory's established acceptance criteria.
- O4 One or more surrogate recoveries were below the laboratory's established acceptance criteria.
- O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample.
- G01 The matrix QC recoveries associated with this sample were above the laboratory's established acceptance criteria.
- E Reported result is over instrument calibration range. This result is an estimate; the true result may be higher.
- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated
- 11 This compound was above the method control limits in the Check Standard associated with this sample
- 10 This compound was below the method control limits in the Check Standard associated with this sample
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



**KQJ0501**

**TestAmerica - King Of Prussia, PA**

<b>Client:</b> RT ENVIRONMENTAL	<b>Project Manager:</b> Enid Dunmire
<b>Project:</b> Riverfront	<b>Project Number:</b> 70588-13

**Report To:**  
 RT ENVIRONMENTAL  
 Craig Herr  
 215 West Church Road  
 King of Prussia, PA 19406  
 Phone: ex 15  
 Fax: 610-265-0687

**Invoice To:**  
 RT ENVIRONMENTAL  
 Accounts Payable  
 215 West Church Road  
 King of Prussia, PA 19406  
 Phone :610-265-1510  
 Fax: 610-265-0687

Date Due: 10/26/07 18:00 (5 day TAT)  
 Received By: Jeff Keehn  
 Logged In By: Oswaldo Burgos

Date Received: 10/19/07 15:20  
 Date Logged In: 10/22/07 10:34

Samples Received at	0°C
Custody Seals	No
Received On Ice	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confin	Yes

Analysis	Due	TAT	Expires	Comments
<b>KQJ0501-01 TP-130 (2) [Soil] Sampled 10/18/07 10:00 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:00	
PCB 8082	10/26/07 17:00	5	11/01/07 10:00	
<b>KQJ0501-02 TP-130 (4) [Soil] Sampled 10/18/07 10:00 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:00	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:00	
<b>KQJ0501-03 TP-130 (8) [Soil] Sampled 10/18/07 10:00 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:00	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:00	
<b>KQJ0501-04 TP-131 (2) [Soil] Sampled 10/18/07 10:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:30	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:30	
<b>KQJ0501-05 TP-131 (5) [Soil] Sampled 10/18/07 10:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:30	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:30	
<b>KQJ0501-06 TP-131 (10) [Soil] Sampled 10/18/07 10:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:30	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:30	

WORK ORDER

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**KQJ0501**

TestAmerica - King Of Prussia, PA

Client: RT ENVIRONMENTAL  
Project: Riverfront

Project Manager: Enid Dunmire  
Project Number: 70588-13

Analysis	Due	TAT	Expires	Comments
<b>KQJ0501-07 TP-132 (1) [Soil] Sampled 10/18/07 10:50 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:50	
PCB 8082	10/26/07 17:00	5	11/01/07 10:50	
<b>KQJ0501-08 TP-132 (3) [Soil] Sampled 10/18/07 10:50 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:50	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:50	
<b>KQJ0501-09 TP-132 (8) [Soil] Sampled 10/18/07 10:50 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 10:50	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 10:50	
<b>KQJ0501-10 TP-133 (2) [Soil] Sampled 10/18/07 11:20 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 11:20	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 11:20	
<b>KQJ0501-11 TP-133 (6) [Soil] Sampled 10/18/07 11:20 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 11:20	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 11:20	
<b>KQJ0501-12 TP-133 (10) [Soil] Sampled 10/18/07 11:20 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 11:20	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 11:20	
<b>KQJ0501-13 TP-134 (2) [Soil] Sampled 10/18/07 11:45 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 11:45	
PCB 8082	10/26/07 17:00	5	11/01/07 11:45	
<b>KQJ0501-14 TP-134 (4) [Soil] Sampled 10/18/07 11:45 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 11:45	
PCB 8082	10/26/07 17:00	5	11/01/07 11:45	
<b>KQJ0501-15 TP-134 (7) [Soil] Sampled 10/18/07 11:45 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 11:45	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 11:45	
<b>KQJ0501-16 TP-135 (2) [Soil] Sampled 10/18/07 12:20 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:20	
PCB 8082	10/26/07 17:00	5	11/01/07 12:20	

**WORK ORDER**

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**KQJ0501**

**TestAmerica - King Of Prussia, PA**

**Client: RT ENVIRONMENTAL**  
**Project: Riverfront**

**Project Manager: Enid Dunmire**  
**Project Number: 70588-13**

<b>Analysis</b>	<b>Due</b>	<b>TAT</b>	<b>Expires</b>	<b>Comments</b>
<b>KQJ0501-17 TP-135 (5) [Soil] Sampled 10/18/07 12:20 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:20	
PCB 8082	10/26/07 17:00	5	11/01/07 12:20	
<b>KQJ0501-18 TP-135 (9) [Soil] Sampled 10/18/07 12:20 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:20	
PCB 8082	10/26/07 17:00	5	11/01/07 12:20	
<b>KQJ0501-19 TP-136 (1) [Soil] Sampled 10/18/07 12:45 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 12:45	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:45	
<b>KQJ0501-20 TP-136 (5) [Soil] Sampled 10/18/07 12:45 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 12:45	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:45	
<b>KQJ0501-21 TP-136 (8) [Soil] Sampled 10/18/07 12:45 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 12:45	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:45	
<b>KQJ0501-22 TP-136 - Blue Material [Soil] Sampled 10/18/07 12:45 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 12:45	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 12:45	
<b>KQJ0501-23 TP-137 (2) [Soil] Sampled 10/18/07 13:10 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 13:10	
PCB 8082	10/26/07 17:00	5	11/01/07 13:10	
<b>KQJ0501-24 TP-137 (5) [Soil] Sampled 10/18/07 13:10 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 13:10	
PCB 8082	10/26/07 17:00	5	11/01/07 13:10	
<b>KQJ0501-25 TP-137 (8) [Soil] Sampled 10/18/07 13:10 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 13:10	
PCB 8082	10/26/07 17:00	5	11/01/07 13:10	
<b>KQJ0501-26 TP-138 (2) [Soil] Sampled 10/18/07 13:35 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 13:35	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 13:35	

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**KQJ0501**

TestAmerica - King Of Prussia, PA

Client: RT ENVIRONMENTAL  
Project: Riverfront

Project Manager: Enid Dunmire  
Project Number: 70588-13

Analysis	Due	TAT	Expires	Comments
<b>KQJ0501-27 TP-138 (6) [Soil] Sampled 10/18/07 13:35 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 13:35	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 13:35	
<b>KQJ0501-28 TP-138 (9) [Soil] Sampled 10/18/07 13:35 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 13:35	
PCB 8082	10/26/07 17:00	5	11/01/07 13:35	
<b>KQJ0501-29 TP-139 (2) [Soil] Sampled 10/18/07 14:10 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 14:10	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 14:10	
<b>KQJ0501-30 TP-139 (5) [Soil] Sampled 10/18/07 14:10 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 14:10	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 14:10	
<b>KQJ0501-31 TP-139 (9) [Soil] Sampled 10/18/07 14:10 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 14:10	
PCB 8082	10/26/07 17:00	5	11/01/07 14:10	
<b>KQJ0501-32 140 (1) [Soil] Sampled 10/18/07 14:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 14:30	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 14:30	
<b>KQJ0501-33 140 (4) [Soil] Sampled 10/18/07 14:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 14:30	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 14:30	
<b>KQJ0501-34 140 (7) [Soil] Sampled 10/18/07 14:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/01/07 14:30	
Solids, Dry Weight	10/26/07 17:00	5	11/17/07 14:30	
<b>KQJ0501-35 141 (1) [Soil] Sampled 10/19/07 07:40 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 07:40	
PCB 8082	10/26/07 17:00	5	11/02/07 07:40	
<b>KQJ0501-36 141 (4) [Soil] Sampled 10/19/07 07:40 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 07:40	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 07:40	

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**KQJ0501**

TestAmerica - King Of Prussia, PA

Client: <b>RT ENVIRONMENTAL</b>	Project Manager: <b>Enid Dunmire</b>
Project: <b>Riverfront</b>	Project Number: <b>70588-13</b>

Analysis	Due	TAT	Expires	Comments
<b>KQJ0501-37 142 (1) [Soil] Sampled 10/19/07 08:00 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 08:00	
PCB 8082	10/26/07 17:00	5	11/02/07 08:00	
<b>KQJ0501-38 142 (4) [Soil] Sampled 10/19/07 08:00 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 08:00	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 08:00	
<b>KQJ0501-39 143 (2) [Soil] Sampled 10/19/07 08:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 08:30	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 08:30	
<b>KQJ0501-40 143 (5) [Soil] Sampled 10/19/07 08:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 08:30	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 08:30	
<b>KQJ0501-41 144 (1) [Soil] Sampled 10/19/07 08:45 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 08:45	
PCB 8082	10/26/07 17:00	5	11/02/07 08:45	
<b>KQJ0501-42 144 (4) [Soil] Sampled 10/19/07 08:45 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 08:45	
PCB 8082	10/26/07 17:00	5	11/02/07 08:45	
<b>KQJ0501-43 145 (1) [Soil] Sampled 10/19/07 09:00 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 09:00	
PCB 8082	10/26/07 17:00	5	11/02/07 09:00	
<b>KQJ0501-44 145 (3) [Soil] Sampled 10/19/07 09:00 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 09:00	
PCB 8082	10/26/07 17:00	5	11/02/07 09:00	
<b>KQJ0501-45 146 (2) [Soil] Sampled 10/19/07 09:20 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 09:20	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 09:20	
<b>KQJ0501-46 146 (4) [Soil] Sampled 10/19/07 09:20 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 09:20	
PCB 8082	10/26/07 17:00	5	11/02/07 09:20	

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**KQJ0501**

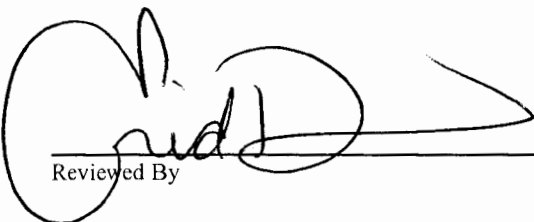
TestAmerica - King Of Prussia, PA

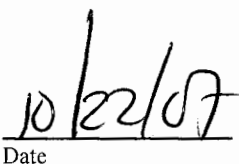
Client: RT ENVIRONMENTAL  
Project: Riverfront

Project Manager: Enid Dunmire  
Project Number: 70588-13

Analysis	Due	TAT	Expires	Comments
<b>KQJ0501-47 150 (2) [Soil] Sampled 10/19/07 10:50 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 10:50	
PCB 8082	10/26/07 17:00	5	11/02/07 10:50	
<b>KQJ0501-48 150 (6) [Soil] Sampled 10/19/07 10:50 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 10:50	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 10:50	
<b>KQJ0501-49 150 (13) [Soil] Sampled 10/19/07 10:50 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 10:50	
PCB 8082	10/26/07 17:00	5	11/02/07 10:50	
<b>KQJ0501-50 151 (2) [Soil] Sampled 10/19/07 11:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 11:30	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 11:30	
<b>KQJ0501-51 151 (6) [Soil] Sampled 10/19/07 11:30 Eastern</b>				
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 11:30	
PCB 8082	10/26/07 17:00	5	11/02/07 11:30	
<b>KQJ0501-52 151 (13) [Soil] Sampled 10/19/07 11:30 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 11:30	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 11:30	
<b>KQJ0501-53 152 (2) [Soil] Sampled 10/19/07 12:15 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 12:15	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 12:15	
<b>KQJ0501-54 152 (6) [Soil] Sampled 10/19/07 12:15 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 12:15	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 12:15	
<b>KQJ0501-55 152 (13) [Soil] Sampled 10/19/07 12:15 Eastern</b>				
PCB 8082	10/26/07 17:00	5	11/02/07 12:15	
Solids, Dry Weight	10/26/07 17:00	5	11/18/07 12:15	

\_\_\_\_\_

  
Reviewed By

  
Date



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/ TD</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:	
Phone #: ( )		Phone #: ( )		Temp. Upon Receipt: <b>0</b>	
E-mail: <b>CH/ TD</b>		Fax #: ( )		Fax #: ( )	
If Yes, please explain:					

Project Name: <b>Riverfront - PCB</b>	Project #/PO#: <b>70588-13</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				NONE	CRACKED/BROKEN	
<b>FIELD ID LOCATION</b>																	
1	<b>TP-130 (2)</b>	PID:	<b>10/18</b>	<b>10<sup>00</sup></b>	<b>Soil</b>						<b>11</b>	<b>X</b>					<b>KQJ0501-01</b>
2	<b>TP-130 (4)</b>	PID:		<b>10<sup>08</sup></b>													<b>-02</b>
3	<b>TP-130 (8)</b>	PID:		<b>10<sup>08</sup></b>													<b>-03</b>
4	<b>TP-131 (2)</b>	PID:		<b>10<sup>20</sup></b>													<b>-04</b>
5	<b>TP-131 (5)</b>	PID:		<b>10<sup>30</sup></b>													<b>-05</b>
6	<b>TP-131 (10)</b>	PID:		<b>10<sup>30</sup></b>													<b>-06</b>
7	<b>TP-132 (1)</b>	PID:		<b>10<sup>50</sup></b>													<b>-07</b>
8	<b>TP-132 (3)</b>	PID:		<b>10<sup>08</sup></b>													<b>-08</b>
9	<b>TP-132 (8)</b>	PID:		<b>10<sup>08</sup></b>													<b>-09</b>
10	<b>TP-133 (2)</b>	PID:		<b>11<sup>20</sup></b>													<b>-10</b>

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	<b>10/19/07</b>	<i>[Signature]</i>	<b>10/19/07</b>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS:

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
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1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH / TD</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>CH / TD</b>		Phone #: ( ) Fax #: ( )		Temp. Upon Receipt: <b>0</b>	
Phone #: ( ) Fax #: ( )		Phone #: ( ) Fax #: ( )		If Yes, please explain:	

Project Name: <b>Riverfront - PCB</b>	Project #/PO#: <b>70588-13</b>	Sampler: <b>TD</b>	FIELD ID LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FILTERED	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
							MeOH	NH4SO4	HCl	HNO3	H2SO4	NH4OH	NONE					
1	TD-133 (6)			10/18	11:20	SOIL							1	1	x			KQJ0501-11
2	TD-133 (10)				11:20													-12
3	TD-134 (2)				11:45													-13
4	TD-134 (4)				11:45													-14
5	TD-134 (7)				11:45													-15
6	TD-135 (2)				12:20													-16
7	TD-135 (5)				12:20													-17
8	TD-135 (9)				12:20													-18
9	TD-136 (1)				12:45													-19
10	TD-136 (5)				12:45													-20

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	10/18/07		10/17/07				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
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(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/TD</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>CH/TD</b>		Phone #: ( ) Fax #: ( )		Temp. Upon Receipt: <b>0</b>	
				If Yes, please explain:	

Project Name: <b>Riverfront PCB</b>	Project #/PO#: <b>70588-13</b>	Sampler: <b>TD</b>	FIELD ID LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES REID/FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	LABORATORY ID NUMBER
							MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE				
1	<b>TP-136(8)</b>			<b>10/18</b>	<b>11:20</b>	<b>SOIL</b>							<b>1</b>	<b>1</b>	<b>X</b>		<b>KQ50501-21</b>
	PID:																
2	<b>TP-136 - Blue Material</b>				<b>11:20</b>												<b>-22</b>
	PID:																
3	<b>TP-137(2)</b>				<b>13:10</b>												<b>-23</b>
	PID:																
4	<b>TP-137(5)</b>				<b>13:10</b>												<b>-24</b>
	PID:																
5	<b>TP-137(8)</b>				<b>13:10</b>												<b>-25</b>
	PID:																
6	<b>TP-138(2)</b>				<b>13:25</b>												<b>-26</b>
	PID:																
7	<b>TP-138(6)</b>				<b>13:25</b>												<b>-27</b>
	PID:																
8	<b>TP-138(9)</b>				<b>13:25</b>												<b>-28</b>
	PID:																
9	<b>TP-139(2)</b>				<b>14:10</b>												<b>-29</b>
	PID:																
10	<b>TP-139(5)</b>				<b>14:10</b>												<b>-30</b>
	PID:																

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	<b>10/19/07</b>	<i>[Signature]</i>	<b>10/19/07</b>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS: **Keep Blue Material Sample on Hold -TD**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <input checked="" type="checkbox"/> 5 DAY <input type="checkbox"/> 4 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 1 DAY <input type="checkbox"/> <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
Report to: <b>CH/TD</b>		Phone #: ( )		DATE RESULTS NEEDED:	
E-mail: <b>CH/TD</b>		Fax #: ( )		Temp. Upon Receipt: <b>0</b>	
State & Program: <b>PA DEP</b>		Phone #: ( )		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Fax #: ( )		Fax #: ( )		If Yes, please explain:	

Project Name: <b>Riverfront - PCB</b>	Project #/PO#: <b>70588-13</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER	
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE						CRACKED/BROKEN
FIELD ID, LOCATION																		
1	<b>TP-139(9)</b>	PID:	10/18	1410	Soil							1	1	X			KQ50501-31	
2	<b>TP-140(1)</b>	PID:	↓	1430													-32	
3	<b>TP-140(4)</b>	PID:		1430														-33
4	<b>TP-140(7)</b>	PID:		1430														-34
5	<b>TP-141(1)</b>	PID:		10/19	740													-35
6	<b>TP-141(4)</b>	PID:	↓	740													-36	
7	<b>TP-142(1)</b>	PID:		800														-37
8	<b>TP-142(4)</b>	PID:		800														-38
9	<b>TP-143(2)</b>	PID:		830														-39
10	<b>TP-143(5)</b>	PID:	830														-40	

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	10/19/07	<i>[Signature]</i>	10/19/07				
	TIME		TIME		TIME		TIME
	1520						

**CHAIN OF CUSTODY REPORT**

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH / TD</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED: Temp. Upon Receipt: <b>0</b>	
E-mail: <b>CH / TD</b>		Phone #: ( ) Fax #: ( )		If Yes, please explain:	

Project Name: <b>Riverfront - PCB</b>	Project #/PO#: <b>70588-13</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MtOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				NONE	CRACKED/BROKEN	
FIELD ID LOCATION																	
1	<b>TD-144 (1)</b>		<b>10/19</b>	<b>845</b>	<b>SOIL</b>						<b>1</b>	<b>1</b>	<b>X</b>				<b>19QJ0501-41</b>
	PID:																<b>-42</b>
2	<b>TD-144 (4)</b>			<b>845</b>													<b>-43</b>
	PID:																<b>-44</b>
3	<b>TD-145 (1)</b>			<b>900</b>													<b>-45</b>
	PID:																<b>-46</b>
4	<b>TD-145 (3)</b>			<b>900</b>													<b>-47</b>
	PID:																<b>-48</b>
5	<b>TD-146 (2)</b>			<b>920</b>													<b>-49</b>
	PID:																<b>-50</b>
6	<b>TD-146 (4)</b>			<b>920</b>													
	PID:																
7	<b>TD-150 (2)</b>			<b>10<sup>30</sup></b>													
	PID:																
8	<b>TD-150 (6)</b>			<b>10<sup>30</sup></b>													
	PID:																
9	<b>TD-150 (13)</b>			<b>10<sup>30</sup></b>													
	PID:																
10	<b>TD-151 (2)</b>			<b>1130</b>													
	PID:																

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	<b>10/19/07</b>	<i>[Signature]</i>	<b>10/19/07</b>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
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1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENY</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH / TB</b> Phone #: ( )		State & Program: <b>PA DEP</b> Phone #: ( )		DATE RESULTS NEEDED:	
E-mail: <b>CH / TB</b> Fax #: ( )				Temp. Upon Receipt: <b>0</b>	
If Yes, please explain: _____					

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED LI YES LI NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
					MeOH	NaHCO <sub>3</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
1	TP-151 (u)	10/19	1130	SOIL							1	1	X				K050501-51
2	TP-151 (13)		1130														-52
3	TP-152 (2)		1215														-53
4	TP-152 (u)		1215														-54
5	TP-152 (13)		1215														-55
6																	
7																	
8																	
9																	
10																	

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>th-Da-</i>	10/19/07	<i>[Signature]</i>	10/19/07				
RELINQUISHED	TIME	RECEIVED	TIME	RELINQUISHED	TIME	RECEIVED	TIME
	5:20		5:20				

COMMENTS: \_\_\_\_\_

PAGE \_\_\_\_\_ OF \_\_\_\_\_

28 November 2007

**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront

Enclosed are the results of analyses for samples received by the laboratory on 11/14/07 14:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Enid Dunmire". The signature is stylized with a large initial "E" and a long horizontal stroke at the end.

Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/28/07 13:58

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-200 (1)	KQK0342-01	Soil	11/14/07 09:00	11/14/07 14:13
TP-200 (4)	KQK0342-02	Soil	11/14/07 09:00	11/14/07 14:13
TP-201 (2)	KQK0342-03	Soil	11/14/07 09:30	11/14/07 14:13
TP-201 (5)	KQK0342-04	Soil	11/14/07 09:30	11/14/07 14:13
TP-202 (5)	KQK0342-05	Soil	11/14/07 09:50	11/14/07 14:13
TP-202 (7)	KQK0342-06	Soil	11/14/07 09:50	11/14/07 14:13
TP-203 (2)	KQK0342-07	Soil	11/14/07 12:05	11/14/07 14:13
TP-203 (5)	KQK0342-08	Soil	11/14/07 12:05	11/14/07 14:13
TP-204 (2)	KQK0342-09	Soil	11/14/07 12:25	11/14/07 14:13
TP-204 (5)	KQK0342-10	Soil	11/14/07 12:25	11/14/07 14:13
TP-205 (2)	KQK0342-11	Soil	11/14/07 12:50	11/14/07 14:13
TP-205 (5)	KQK0342-12	Soil	11/14/07 12:50	11/14/07 14:13
TP-206 (2)	KQK0342-13	Soil	11/14/07 13:30	11/14/07 14:13
TP-206 (5)	KQK0342-14	Soil	11/14/07 13:30	11/14/07 14:13





RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/28/07 13:58
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## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-200 (1) (KQK0342-01) Soil</b> Sampled: 11/14/07 09:00 Received: 11/14/07 14:13									<b>DILN</b>
PCB-1016	ND	2500	ug/kg dry	50	7111431	11/19/07	11/27/07	EPA 8082	
PCB-1221	ND	2500	"	"	"	"	"	"	
PCB-1232	ND	2500	"	"	"	"	"	"	
PCB-1242	ND	2500	"	"	"	"	"	"	
PCB-1248	ND	2500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>7100</b>	2500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>3700</b>	2500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-200 (4) (KQK0342-02) Soil</b> Sampled: 11/14/07 09:00 Received: 11/14/07 14:13									<b>10</b>
PCB-1016	ND	50	ug/kg dry	1	7111431	11/19/07	11/20/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		98.7 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		14.4 %	17-110	"	"	"	"	"	O4
<b>TP-201 (2) (KQK0342-03) Soil</b> Sampled: 11/14/07 09:30 Received: 11/14/07 14:13									<b>10, DILN</b>
PCB-1016	ND	250	ug/kg dry	5	7111431	11/19/07	11/22/07	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>550</b>	250	"	"	"	"	"	"	GCRPD
<b>PCB-1254</b>	<b>1100</b>	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>730</b>	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		56.0 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		25.5 %	17-110	"	"	"	"	"	

TestAmerica - King Of Prussia, PA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	Reported: 11/28/07 13:58
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-201 (5) (KQK0342-04) Soil</b> <b>Sampled: 11/14/07 09:30</b> <b>Received: 11/14/07 14:13</b> <span style="float:right"><b>DILN</b></span>									
PCB-1016	ND	1000	ug/kg dry	20	7111431	11/19/07	11/27/07	EPA 8082	
PCB-1221	ND	1000	"	"	"	"	"	"	
PCB-1232	ND	1000	"	"	"	"	"	"	
PCB-1242	ND	1000	"	"	"	"	"	"	
PCB-1248	ND	1000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>4900</b>	1000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>4700</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11
<b>TP-202 (5) (KQK0342-05) Soil</b> <b>Sampled: 11/14/07 09:50</b> <b>Received: 11/14/07 14:13</b> <span style="float:right"><b>DILN</b></span>									
PCB-1016	ND	3200	ug/kg dry	50	7111431	11/19/07	11/27/07	EPA 8082	
PCB-1221	ND	3200	"	"	"	"	"	"	
PCB-1232	ND	3200	"	"	"	"	"	"	
PCB-1242	ND	3200	"	"	"	"	"	"	
PCB-1248	ND	3200	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>9900</b>	3200	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>6000</b>	3200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11
<b>TP-202 (7) (KQK0342-06) Soil</b> <b>Sampled: 11/14/07 09:50</b> <b>Received: 11/14/07 14:13</b> <span style="float:right"><b>10</b></span>									
PCB-1016	ND	50	ug/kg dry	1	7111431	11/19/07	11/20/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		103 %		43-112	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		14.2 %		17-110	"	"	"	"	O4

TestAmerica - King Of Prussia, PA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront  
 Project Number: 70588-13  
 Project Manager: Craig Herr

**Reported:**  
 11/28/07 13:58

**Polychlorinated Biphenyls by EPA Method 8082**

**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-203 (2) (KQK0342-07) Soil</b> <b>Sampled: 11/14/07 12:05</b> <b>Received: 11/14/07 14:13</b> <span style="float:right"><b>10</b></span>									
PCB-1016	ND	50	ug/kg dry	1	7111431	11/19/07	11/22/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>240</b>	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		64.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		19.0 %	17-110	"	"	"	"	"	
<b>TP-203 (5) (KQK0342-08) Soil</b> <b>Sampled: 11/14/07 12:05</b> <b>Received: 11/14/07 14:13</b> <span style="float:right"><b>10</b></span>									
PCB-1016	ND	50	ug/kg dry	1	7111431	11/19/07	11/22/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		52.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		11.3 %	17-110	"	"	"	"	"	04
<b>TP-204 (2) (KQK0342-09) Soil</b> <b>Sampled: 11/14/07 12:25</b> <b>Received: 11/14/07 14:13</b> <span style="float:right"><b>DILN</b></span>									
PCB-1016	ND	2000	ug/kg dry	50	7111431	11/19/07	11/27/07	EPA 8082	
PCB-1221	ND	2000	"	"	"	"	"	"	
PCB-1232	ND	2000	"	"	"	"	"	"	
PCB-1242	ND	2000	"	"	"	"	"	"	
PCB-1248	ND	2000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>11000</b>	2000	"	"	"	"	"	"	E
<b>PCB-1260</b>	<b>6400</b>	2000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	011
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	011

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront  
 Project Number: 70588-13  
 Project Manager: Craig Herr

**Reported:**  
 11/28/07 13:58

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TP-204 (5) (KQK0342-10) Soil**    **Sampled: 11/14/07 12:25**    **Received: 11/14/07 14:13** **10, DILN**

PCB-1016	ND	500	ug/kg dry	10	7111431	11/19/07	11/22/07	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
PCB-1248	ND	500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>720</b>	500	"	"	"	"	"	"	
PCB-1260	ND	500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		70.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		47.0 %	17-110	"	"	"	"	"	

**TP-205 (2) (KQK0342-11) Soil**    **Sampled: 11/14/07 12:50**    **Received: 11/14/07 14:13** **10**

PCB-1016	ND	50	ug/kg dry	1	7111431	11/19/07	11/22/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>110</b>	50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>65</b>	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		80.7 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		24.4 %	17-110	"	"	"	"	"	

**TP-205 (5) (KQK0342-12) Soil**    **Sampled: 11/14/07 12:50**    **Received: 11/14/07 14:13** **10**

PCB-1016	ND	37	ug/kg dry	1	7111431	11/19/07	11/22/07	EPA 8082	
PCB-1221	ND	37	"	"	"	"	"	"	
PCB-1232	ND	37	"	"	"	"	"	"	
PCB-1242	ND	37	"	"	"	"	"	"	
PCB-1248	ND	37	"	"	"	"	"	"	
PCB-1254	ND	37	"	"	"	"	"	"	
PCB-1260	ND	37	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		81.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		32.5 %	17-110	"	"	"	"	"	

TestAmerica - King Of Prussia, PA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/28/07 13:58

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - King Of Prussia, PA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-206 (2) (KQK0342-13) Soil</b>									<b>DILN</b>
Sampled: 11/14/07 13:30 Received: 11/14/07 14:13									
PCB-1016	ND	100	ug/kg dry	2	7111431	11/19/07	11/28/07	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>520</b>	100	"	"	"	"	"	"	E
<b>PCB-1260</b>	<b>320</b>	100	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		85.8 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		44.3 %	17-110	"	"	"	"	"	
<b>TP-206 (5) (KQK0342-14) Soil</b>									<b>10</b>
Sampled: 11/14/07 13:30 Received: 11/14/07 14:13									
PCB-1016	ND	50	ug/kg dry	1	7111431	11/19/07	11/20/07	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>98</b>	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		98.8 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		13.4 %	17-110	"	"	"	"	"	O4



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront Project Number: 70588-13 Project Manager: Craig Herr	<b>Reported:</b> 11/28/07 13:58
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**General Chemistry**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-200 (1) (KQK0342-01) Soil</b>	<b>Sampled: 11/14/07 09:00 Received: 11/14/07 14:13</b>								
% Solids	86.1	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-200 (4) (KQK0342-02) Soil</b>	<b>Sampled: 11/14/07 09:00 Received: 11/14/07 14:13</b>								
% Solids	82.0	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-201 (2) (KQK0342-03) Soil</b>	<b>Sampled: 11/14/07 09:30 Received: 11/14/07 14:13</b>								
% Solids	83.7	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-201 (5) (KQK0342-04) Soil</b>	<b>Sampled: 11/14/07 09:30 Received: 11/14/07 14:13</b>								
% Solids	85.8	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-202 (5) (KQK0342-05) Soil</b>	<b>Sampled: 11/14/07 09:50 Received: 11/14/07 14:13</b>								
% Solids	79.0	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-202 (7) (KQK0342-06) Soil</b>	<b>Sampled: 11/14/07 09:50 Received: 11/14/07 14:13</b>								
% Solids	86.4	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-203 (2) (KQK0342-07) Soil</b>	<b>Sampled: 11/14/07 12:05 Received: 11/14/07 14:13</b>								
% Solids	88.1	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-203 (5) (KQK0342-08) Soil</b>	<b>Sampled: 11/14/07 12:05 Received: 11/14/07 14:13</b>								
% Solids	83.8	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-204 (2) (KQK0342-09) Soil</b>	<b>Sampled: 11/14/07 12:25 Received: 11/14/07 14:13</b>								
% Solids	89.5	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront  
 Project Number: 70588-13  
 Project Manager: Craig Herr

**Reported:**  
 11/28/07 13:58

**General Chemistry**  
**TestAmerica - King Of Prussia, PA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-204 (5) (KQK0342-10) Soil</b> <b>Sampled: 11/14/07 12:25</b> <b>Received: 11/14/07 14:13</b>									
% Solids	84.8	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-205 (2) (KQK0342-11) Soil</b> <b>Sampled: 11/14/07 12:50</b> <b>Received: 11/14/07 14:13</b>									
% Solids	87.5	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-205 (5) (KQK0342-12) Soil</b> <b>Sampled: 11/14/07 12:50</b> <b>Received: 11/14/07 14:13</b>									
% Solids	80.3	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-206 (2) (KQK0342-13) Soil</b> <b>Sampled: 11/14/07 13:30</b> <b>Received: 11/14/07 14:13</b>									
% Solids	86.1	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	
<b>TP-206 (5) (KQK0342-14) Soil</b> <b>Sampled: 11/14/07 13:30</b> <b>Received: 11/14/07 14:13</b>									
% Solids	84.7	0.01	% by Weight	1	7111601	11/16/07	11/16/07	EPA 160.3	

TestAmerica - King Of Prussia, PA

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront  
Project Number: 70588-13  
Project Manager: Craig Herr

**Reported:**  
11/28/07 13:58

### Notes and Definitions

- O4 One or more surrogate recoveries were below the laboratory's established acceptance criteria.
- O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample.
- GCRPD The RPD between the primary and secondary columns was greater than the method specified RPD of 40%.
- E Reported result is over instrument calibration range. This result is an estimate; the true result may be higher.
- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
- 10 This compound was below the method control limits in the Check Standard associated with this sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





**kop-login**

**From:** Enid Dunmire  
**Sent:** Wednesday, November 14, 2007 3:33 PM  
**To:** kop-login  
**Subject:** Riverfront samples from RT  
**Importance:** High

For samples rcv'd today. Run all

**ENID DUNMIRE**  
Project Manager

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

1008 West Ninth Ave  
King of Prussia, PA 19406  
Tel 610.337.9992  
Fax 610.337.9939

[www.stl-inc.com](http://www.stl-inc.com)   [www.testamericainc.com](http://www.testamericainc.com)

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		State & Program: <b>PA DEP</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CA/TA</b>		Phone #: ( )		DATE RESULTS NEEDED:	
E-mail: <b>CA/TA</b>		Fax #: ( )		Temp. Upon Receipt: <b>0</b>	

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES SAMPLED/FIELD FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	LABORATORY ID NUMBER	
				MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				NONE
1] <b>TP-200(1)</b> PID:	<b>11/14</b>	<b>900</b>	<b>Soil</b>							<b>1</b>	<b>1</b>	<b>X</b>	<b>KOK0342-01</b>
2] <b>TP-200(4)</b> PID:		<b>900</b>											<b>-02</b>
3] <b>TP-201(2)</b> PID:		<b>930</b>											<b>-03</b>
4] <b>TP-201(5)</b> PID:		<b>930</b>											<b>-04</b>
5] <b>TP-202(5)</b> PID:		<b>930</b>											<b>-05</b>
6] <b>TP-202(7)</b> PID:		<b>930</b>											<b>-06</b>
7] <b>TP-203(2)</b> PID:		<b>1200</b>											<b>-07</b>
8] <b>TP-203(5)</b> PID:		<b>1200</b>											<b>-08</b>
9] <b>TP-204(2)</b> PID:		<b>1220</b>											<b>-09</b>
10] <b>TP-204(5)</b> PID:		<b>1220</b>											<b>-10</b>

RELINQUISHED	<b>11/14/07</b>	RECEIVED	<b>11/14/07</b>	RELINQUISHED		RECEIVED	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	

COMMENTS: **Hold All**

PAGE OF

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
Report to: <b>TD/CH</b> Phone #: ( )		State & Program: <b>PA DEP</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
E-mail: <b>TD/CH</b> Fax #: ( )		Phone #: ( ) Fax #: ( )		DATE RESULTS NEEDED:	
If Yes, please explain:					

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES REID FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	PCB	ANALYSIS TYPE	SAMPLE CONTROL CRACKED/BROKEN IMPROPERLY SEALED	LABORATORY ID NUMBER
				MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE						
1 <b>77-205(2)</b> PID:	<b>11/14</b>	<b>12<sup>30</sup></b>	<b>SOL</b>							<b>1</b>	<b>1</b>	<b>X</b>			<b>KQK0342-10</b>	
2 <b>TD-205(S)</b> PID:		<b>12<sup>30</sup></b>													<b>-12</b>	
3 <b>77-206(2)</b> PID:		<b>13<sup>30</sup></b>													<b>-13</b>	
4 <b>TD-206(S)</b> PID:		<b>13<sup>30</sup></b>													<b>-14</b>	
5 PID:																
6 PID:																
7 PID:																
8 PID:																
9 PID:																
10 PID:																

RELINQUISHED 	<b>11/14/07</b>	RECEIVED 	<b>11/14/07</b>	RELINQUISHED		RECEIVED	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	

COMMENTS: **HOLD ALL**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**2008**

10 April 2008

**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront - PCB Attainment

Enclosed are the results of analyses for samples received by the laboratory on 04/07/08 13:03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/10/08 17:51

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-300(4)	KRD0144-01	Soil	03/27/08 09:20	04/07/08 13:03
TP-307(4)	KRD0144-02	Soil	03/27/08 10:50	04/07/08 13:03
TP-308(2)	KRD0144-03	Soil	03/27/08 10:59	04/07/08 13:03
TP-309(3)	KRD0144-04	Soil	03/27/08 11:08	04/07/08 13:03
TP-310(4)	KRD0144-05	Soil	03/27/08 11:20	04/07/08 13:03
TP-311(3)	KRD0144-06	Soil	03/27/08 11:40	04/07/08 13:03
TP-312(6)	KRD0144-07	Soil	03/27/08 11:55	04/07/08 13:03
TP-313(6)	KRD0144-08	Soil	03/27/08 12:10	04/07/08 13:03
TP-314(10)	KRD0144-09	Soil	03/27/08 12:25	04/07/08 13:03
TP-315(6)	KRD0144-10	Soil	03/27/08 12:45	04/07/08 13:03
TP-316(8)	KRD0144-11	Soil	03/27/08 13:10	04/07/08 13:03
TP-317(4)	KRD0144-12	Soil	03/27/08 13:25	04/07/08 13:03
TP-318(3)	KRD0144-13	Soil	03/27/08 13:30	04/07/08 13:03
TP-319(3)	KRD0144-14	Soil	03/27/08 13:55	04/07/08 13:03

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

Page 1 of 10

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront - PCB Attainment Project Number: 70588-16 Project Manager: Craig Herr	Reported: 04/10/08 17:51
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-300(4) (KRD0144-01) Soil</b> <b>Sampled: 03/27/08 09:20</b> <b>Received: 04/07/08 13:03</b> <b>01b, DILN, PRLM</b>										
PCB-1016	ND	1000	5000	ug/kg dry	100	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	1000	5000	"	"	"	"	"	"	
PCB-1232	ND	1000	5000	"	"	"	"	"	"	
PCB-1242	ND	1000	5000	"	"	"	"	"	"	
PCB-1248	ND	1000	5000	"	"	"	"	"	"	
PCB-1254	ND	1000	5000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>6400</b>	1000	5000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11
<b>TP-307(4) (KRD0144-02) Soil</b> <b>Sampled: 03/27/08 10:50</b> <b>Received: 04/07/08 13:03</b> <b>-01, DILN, PRLM</b>										
PCB-1016	ND	120000	620000	ug/kg dry	12500	8040721	04/08/08	04/10/08	EPA 8082	
PCB-1221	ND	120000	620000	"	"	"	"	"	"	
PCB-1232	ND	120000	620000	"	"	"	"	"	"	
PCB-1242	ND	120000	620000	"	"	"	"	"	"	
PCB-1248	ND	120000	620000	"	"	"	"	"	"	
PCB-1254	ND	120000	620000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>2200000</b>	120000	620000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11
<b>TP-308(2) (KRD0144-03) Soil</b> <b>Sampled: 03/27/08 10:59</b> <b>Received: 04/07/08 13:03</b> <b>01b, DILN, PRLM</b>										
PCB-1016	ND	250	1200	ug/kg dry	25	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	250	1200	"	"	"	"	"	"	
PCB-1232	ND	250	1200	"	"	"	"	"	"	
PCB-1242	ND	250	1200	"	"	"	"	"	"	
PCB-1248	ND	250	1200	"	"	"	"	"	"	
PCB-1254	ND	250	1200	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>1000</b>	250	1200	"	"	"	"	"	"	J

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront - PCB Attainment Project Number: 70588-16 Project Manager: Craig Herr	<b>Reported:</b> 04/10/08 17:51
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-308(2) (KRD0144-03) Soil Sampled: 03/27/08 10:59 Received: 04/07/08 13:03</b>										<b>01b, DILN, PRLM</b>
<i>Surrogate: Tetrachloro-meta-xylene</i>		108 %	43-112			8040721	04/08/08	04/09/08	EPA 8082	
<i>Surrogate: Decachlorobiphenyl</i>		135 %	17-110			"	"	"	"	
<b>TP-309(3) (KRD0144-04) Soil Sampled: 03/27/08 11:08 Received: 04/07/08 13:03</b>										<b>01b, DILN, PRLM</b>
PCB-1016	ND	1000	5000	ug/kg dry	100	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	1000	5000	"	"	"	"	"	"	
PCB-1232	ND	1000	5000	"	"	"	"	"	"	
PCB-1242	ND	1000	5000	"	"	"	"	"	"	
PCB-1248	ND	1000	5000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>8900</b>	1000	5000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>6700</b>	1000	5000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11
<b>TP-310(4) (KRD0144-05) Soil Sampled: 03/27/08 11:20 Received: 04/07/08 13:03</b>										<b>01d, DILN, PRLM</b>
PCB-1016	ND	2500	12000	ug/kg dry	250	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	2500	12000	"	"	"	"	"	"	
PCB-1232	ND	2500	12000	"	"	"	"	"	"	
PCB-1242	ND	2500	12000	"	"	"	"	"	"	
PCB-1248	ND	2500	12000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>25000</b>	2500	12000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>22000</b>	2500	12000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11





RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/10/08 17:51

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-311(3) (KRD0144-06) Soil Sampled: 03/27/08 11:40 Received: 04/07/08 13:03 11d, DILN, PRLM</b>										
PCB-1016	ND	250	1200	ug/kg dry	25	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	250	1200	"	"	"	"	"	"	
PCB-1232	ND	250	1200	"	"	"	"	"	"	
PCB-1242	ND	250	1200	"	"	"	"	"	"	
PCB-1248	ND	250	1200	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>1000</b>	250	1200	"	"	"	"	"	"	J
<b>PCB-1260</b>	<b>910</b>	250	1200	"	"	"	"	"	"	J
<i>Surrogate: Tetrachloro-meta-xylene</i>		106 %	43-112			"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		158 %	17-110			"	"	"	"	
<b>TP-312(6) (KRD0144-07) Soil Sampled: 03/27/08 11:55 Received: 04/07/08 13:03 11d, DILN, PRLM</b>										
PCB-1016	ND	1400	6800	ug/kg dry	100	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	1400	6800	"	"	"	"	"	"	
PCB-1232	ND	1400	6800	"	"	"	"	"	"	
PCB-1242	ND	1400	6800	"	"	"	"	"	"	
PCB-1248	ND	1400	6800	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>17000</b>	1400	6800	"	"	"	"	"	"	
PCB-1260	ND	1400	6800	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11
<b>TP-313(6) (KRD0144-08) Soil Sampled: 03/27/08 12:10 Received: 04/07/08 13:03 11d, DILN, PRLM</b>										
PCB-1016	ND	5000	25000	ug/kg dry	500	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	5000	25000	"	"	"	"	"	"	
PCB-1232	ND	5000	25000	"	"	"	"	"	"	
PCB-1242	ND	5000	25000	"	"	"	"	"	"	
PCB-1248	ND	5000	25000	"	"	"	"	"	"	
PCB-1254	ND	5000	25000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>64000</b>	5000	25000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/10/08 17:51

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-313(6) (KRD0144-08) Soil</b> Sampled: 03/27/08 12:10 Received: 04/07/08 13:03										<b>01d, DILN, PRLM</b>
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			8040721	04/08/08	04/09/08	EPA 8082	O11
<b>TP-314(10) (KRD0144-09) Soil</b> Sampled: 03/27/08 12:25 Received: 04/07/08 13:03										<b>01c, DILN, PRLM</b>
PCB-1016	ND	250	1200	ug/kg dry	25	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	250	1200	"	"	"	"	"	"	
PCB-1232	ND	250	1200	"	"	"	"	"	"	
PCB-1242	ND	250	1200	"	"	"	"	"	"	
PCB-1248	ND	250	1200	"	"	"	"	"	"	
PCB-1254	ND	250	1200	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>2800</b>	250	1200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		112 %	43-112			"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		97.0 %	17-110			"	"	"	"	
<b>TP-315(6) (KRD0144-10) Soil</b> Sampled: 03/27/08 12:45 Received: 04/07/08 13:03										<b>01d, DILN, PRLM</b>
PCB-1016	ND	2500	12000	ug/kg dry	250	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	2500	12000	"	"	"	"	"	"	
PCB-1232	ND	2500	12000	"	"	"	"	"	"	
PCB-1242	ND	2500	12000	"	"	"	"	"	"	
PCB-1248	ND	2500	12000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>24000</b>	2500	12000	"	"	"	"	"	"	
PCB-1260	ND	2500	12000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	O11
<b>TP-316(8) (KRD0144-11) Soil</b> Sampled: 03/27/08 13:10 Received: 04/07/08 13:03										<b>01a, DILN, PRLM</b>
PCB-1016	ND	50	250	ug/kg dry	5	8040721	04/08/08	04/10/08	EPA 8082	
PCB-1221	ND	50	250	"	"	"	"	"	"	
PCB-1232	ND	50	250	"	"	"	"	"	"	
PCB-1242	ND	50	250	"	"	"	"	"	"	
PCB-1248	ND	50	250	"	"	"	"	"	"	
PCB-1254	ND	50	250	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/10/08 17:51

## Polychlorinated Biphenyls by EPA Method 8082 TestAmerica King Of Prussia

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-316(8) (KRD0144-11) Soil Sampled: 03/27/08 13:10 Received: 04/07/08 13:03</b>										<b>01a, DILN, PRLM</b>
PCB-1260	ND	50	250	ug/kg dry	5	8040721	04/08/08	04/10/08	EPA 8082	
Surrogate: Tetrachloro-meta-xylene		63.8 %	43-112			"	"	"	"	
Surrogate: Decachlorobiphenyl		155 %	17-110			"	"	"	"	O4
<b>TP-317(4) (KRD0144-12) Soil Sampled: 03/27/08 13:25 Received: 04/07/08 13:03</b>										<b>01d, DILN, PRLM</b>
PCB-1016	ND	2500	12000	ug/kg dry	250	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	2500	12000	"	"	"	"	"	"	
PCB-1232	ND	2500	12000	"	"	"	"	"	"	
PCB-1242	ND	2500	12000	"	"	"	"	"	"	
PCB-1248	ND	2500	12000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>26000</b>	2500	12000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>20000</b>	2500	12000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	43-112			"	"	"	"	O11
Surrogate: Decachlorobiphenyl		%	17-110			"	"	"	"	O11
<b>TP-318(3) (KRD0144-13) Soil Sampled: 03/27/08 13:30 Received: 04/07/08 13:03</b>										<b>01a, DILN, PRLM</b>
PCB-1016	ND	50	250	ug/kg dry	5	8040721	04/08/08	04/10/08	EPA 8082	
PCB-1221	ND	50	250	"	"	"	"	"	"	
PCB-1232	ND	50	250	"	"	"	"	"	"	
PCB-1242	ND	50	250	"	"	"	"	"	"	
PCB-1248	ND	50	250	"	"	"	"	"	"	
PCB-1254	ND	50	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>110</b>	50	250	"	"	"	"	"	"	J
Surrogate: Tetrachloro-meta-xylene		83.8 %	43-112			"	"	"	"	
Surrogate: Decachlorobiphenyl		103 %	17-110			"	"	"	"	

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/10/08 17:51

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
<b>TP-319(3) (KRD0144-14) Soil    Sampled: 03/27/08 13:55    Received: 04/07/08 13:03</b>											
<b>01d, DILN, PRLM</b>											
PCB-1016	ND	1600	7900		ug/kg dry	125	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	1600	7900		"	"	"	"	"	"	
PCB-1232	ND	1600	7900		"	"	"	"	"	"	
PCB-1242	ND	1600	7900		"	"	"	"	"	"	
PCB-1248	ND	1600	7900		"	"	"	"	"	"	
<b>PCB-1254</b>	<b>26000</b>	1600	7900		"	"	"	"	"	"	
<b>PCB-1260</b>	<b>13000</b>	1600	7900		"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112			"	"	"	"	"	<i>O11</i>
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110			"	"	"	"	"	<i>O11</i>

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/10/08 17:51

## General Chemistry TestAmerica King Of Prussia

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-300(4) (KRD0144-01) Soil</b> Sampled: 03/27/08 09:20 Received: 04/07/08 13:03										
% Solids	83.7		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-307(4) (KRD0144-02) Soil</b> Sampled: 03/27/08 10:50 Received: 04/07/08 13:03										
% Solids	80.2		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-308(2) (KRD0144-03) Soil</b> Sampled: 03/27/08 10:59 Received: 04/07/08 13:03										
% Solids	84.0		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-309(3) (KRD0144-04) Soil</b> Sampled: 03/27/08 11:08 Received: 04/07/08 13:03										
% Solids	82.3		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-310(4) (KRD0144-05) Soil</b> Sampled: 03/27/08 11:20 Received: 04/07/08 13:03										
% Solids	81.3		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-311(3) (KRD0144-06) Soil</b> Sampled: 03/27/08 11:40 Received: 04/07/08 13:03										
% Solids	86.2		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-312(6) (KRD0144-07) Soil</b> Sampled: 03/27/08 11:55 Received: 04/07/08 13:03										
% Solids	73.9		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-313(6) (KRD0144-08) Soil</b> Sampled: 03/27/08 12:10 Received: 04/07/08 13:03										
% Solids	80.9		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-314(10) (KRD0144-09) Soil</b> Sampled: 03/27/08 12:25 Received: 04/07/08 13:03										
% Solids	83.4		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront - PCB Attainment Project Number: 70588-16 Project Manager: Craig Herr	<b>Reported:</b> 04/10/08 17:51
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**General Chemistry**  
**TestAmerica King Of Prussia**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-315(6) (KRD0144-10) Soil Sampled: 03/27/08 12:45 Received: 04/07/08 13:03</b>										
% Solids	80.7		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-316(8) (KRD0144-11) Soil Sampled: 03/27/08 13:10 Received: 04/07/08 13:03</b>										
% Solids	80.7		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-317(4) (KRD0144-12) Soil Sampled: 03/27/08 13:25 Received: 04/07/08 13:03</b>										
% Solids	82.5		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-318(3) (KRD0144-13) Soil Sampled: 03/27/08 13:30 Received: 04/07/08 13:03</b>										
% Solids	84.4		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-319(3) (KRD0144-14) Soil Sampled: 03/27/08 13:55 Received: 04/07/08 13:03</b>										
% Solids	79.3		0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/10/08 17:51

## Notes and Definitions

PRLM Preliminary results

O4 One or more surrogate recoveries were below the laboratory's established acceptance criteria

O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample

J The reported concentration for this analyte is an estimated value. The reported concentration is above the method detection limit, but below the limit of quantitation.

DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated

A-01d QC needed

A-01c QC needed

A-01b Needs QC.

A-01a needs qc and end check

A-01 needs qc

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



07 April 2008

**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront- Surface Soils

Enclosed are the results of analyses for samples received by the laboratory on 03/31/08 09:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Enid Dunmire  
Project Manager



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-17	KRC0615-01	Soil	03/28/08 12:50	03/31/08 09:55
SS-18	KRC0615-02	Soil	03/28/08 12:55	03/31/08 09:55
SS-19	KRC0615-03	Soil	03/28/08 13:00	03/31/08 09:55
SS-20	KRC0615-04	Soil	03/28/08 13:05	03/31/08 09:55

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
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 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Total Metals by EPA 6000/7000 Series Methods**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-17 (KRC0615-01) Soil Sampled: 03/28/08 12:50 Received: 03/31/08 09:55</b>									
Arsenic	13	1.2	mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
Mercury	0.482	0.100	"	1	8040113	04/01/08	04/02/08	EPA 7471A	
Barium	170	0.50	"	"	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	4.1	1.0	"	"	"	"	"	"	G04
Chromium	33	2.5	"	"	"	"	"	"	
Lead	530	5.0	"	"	"	"	"	"	G04
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>SS-18 (KRC0615-02) Soil Sampled: 03/28/08 12:55 Received: 03/31/08 09:55</b>									
Arsenic	6.7	1.2	mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
Mercury	0.399	0.100	"	1	8040113	04/01/08	04/02/08	EPA 7471A	
Barium	100	0.50	"	"	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	1.4	1.0	"	"	"	"	"	"	G04
Chromium	81	2.5	"	"	"	"	"	"	
Lead	230	5.0	"	"	"	"	"	"	G04
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	
<b>SS-19 (KRC0615-03) Soil Sampled: 03/28/08 13:00 Received: 03/31/08 09:55</b>									
Arsenic	5.2	1.2	mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
Mercury	0.334	0.100	"	1	8040113	04/01/08	04/02/08	EPA 7471A	
Barium	100	0.50	"	"	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	1.2	1.0	"	"	"	"	"	"	G04
Chromium	35	2.5	"	"	"	"	"	"	
Lead	250	5.0	"	"	"	"	"	"	G04
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

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 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Total Metals by EPA 6000/7000 Series Methods**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-20 (KRC0615-04) Soil</b> <b>Sampled: 03/28/08 13:05</b> <b>Received: 03/31/08 09:55</b>									
<b>Arsenic</b>	<b>5.2</b>	1.2	mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
<b>Mercury</b>	<b>2.99</b>	0.400	"	4	8040113	04/01/08	04/02/08	EPA 7471A	DILN
<b>Barium</b>	<b>78</b>	0.50	"	1	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	G04
<b>Chromium</b>	<b>400</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>120</b>	5.0	"	"	"	"	"	"	G04
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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 215 West Church Road  
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Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-17 (KRC0615-01) Soil</b> Sampled: 03/28/08 12:50 Received: 03/31/08 09:55 <span style="float: right;">A-01, DILN, O12, PRLM</span>									
PCB-1016	ND	250	ug/kg dry	5	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>710</b>	250	"	"	"	"	"	"	GCRPD
<i>Surrogate: Tetrachloro-meta-xylene</i>		76.2 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		18.0 %	17-110	"	"	"	"	"	
<b>SS-18 (KRC0615-02) Soil</b> Sampled: 03/28/08 12:55 Received: 03/31/08 09:55 <span style="float: right;">A-01, DILN, PRLM</span>									
PCB-1016	ND	100	ug/kg dry	2	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>190</b>	100	"	"	"	"	"	"	GCRPD
<i>Surrogate: Tetrachloro-meta-xylene</i>		63.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		12.5 %	17-110	"	"	"	"	"	O4
<b>SS-19 (KRC0615-03) Soil</b> Sampled: 03/28/08 13:00 Received: 03/31/08 09:55 <span style="float: right;">A-01, DILN, PRLM</span>									
PCB-1016	ND	100	ug/kg dry	2	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>260</b>	100	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		58.4 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		11.3 %	17-110	"	"	"	"	"	O4

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-20 (KRC0615-04) Soil Sampled: 03/28/08 13:05 Received: 03/31/08 09:55									
									A-01, DILN, PRLM
PCB-1016	ND	100	ug/kg dry	2	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>100</b>	100	"	"	"	"	"	"	GCRPD
Surrogate: Tetrachloro-meta-xylene		47.8 %	43-112	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		8.06 %	17-110	"	"	"	"	"	04

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

## Semivolatile Organic Compounds by EPA Method 8270C TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-17 (KRC0615-01) Soil Sampled: 03/28/08 12:50 Received: 03/31/08 09:55 <span style="float: right;">DILN</span>									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
Anthracene	ND	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>2000</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>2300</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>2900</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>1500</b>	1000	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>1300</b>	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>2200</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>4700</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1700</b>	1000	"	"	"	"	"	"	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>2100</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>3300</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		76.0 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		89.8 %	30-115		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		79.1 %	18-137		"	"	"	"	

SS-18 (KRC0615-02) Soil Sampled: 03/28/08 12:55 Received: 03/31/08 09:55 <span style="float: right;">DILN</span>									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
Anthracene	ND	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>1800</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>1900</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>2200</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>1200</b>	1000	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>1100</b>	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>1800</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>4100</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Semivolatile Organic Compounds by EPA Method 8270C**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-18 (KRC0615-02) Soil</b>									<b>DILN</b>
Sampled: 03/28/08 12:55 Received: 03/31/08 09:55									
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1400</b>	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>2000</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>2900</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		77.5 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		94.5 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		81.4 %		18-137	"	"	"	"	
<b>SS-19 (KRC0615-03) Soil</b>									<b>DILN</b>
Sampled: 03/28/08 13:00 Received: 03/31/08 09:55									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
<b>Anthracene</b>	<b>1200</b>	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>4800</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>4400</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>5900</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>2400</b>	1000	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>2400</b>	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>4900</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>12000</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>2700</b>	1000	"	"	"	"	"	"	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>5200</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>8300</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		67.9 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		86.1 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		79.2 %		18-137	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Semivolatle Organic Compounds by EPA Method 8270C**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-20 (KRC0615-04) Soil Sampled: 03/28/08 13:05 Received: 03/31/08 09:55									DILN
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	"
Anthracene	ND	1000	"	"	"	"	"	"	"
<b>Benzo (a) anthracene</b>	<b>1500</b>	1000	"	"	"	"	"	"	"
<b>Benzo[a]pyrene</b>	<b>1800</b>	1000	"	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>2100</b>	1000	"	"	"	"	"	"	"
<b>Benzo (g,h,i) perylene</b>	<b>1100</b>	1000	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	1000	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>1500</b>	1000	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>3100</b>	1000	"	"	"	"	"	"	"
Fluorene	ND	1000	"	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1300</b>	1000	"	"	"	"	"	"	"
Naphthalene	ND	1000	"	"	"	"	"	"	"
<b>Phenanthrene</b>	<b>1000</b>	1000	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>2400</b>	1000	"	"	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		68.8 %		23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		80.1 %		30-115	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		75.1 %		18-137	"	"	"	"	"





RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**General Chemistry**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-17 (KRC0615-01) Soil Sampled: 03/28/08 12:50 Received: 03/31/08 09:55									
% Solids	82.6	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	
SS-18 (KRC0615-02) Soil Sampled: 03/28/08 12:55 Received: 03/31/08 09:55									
% Solids	86.3	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	
SS-19 (KRC0615-03) Soil Sampled: 03/28/08 13:00 Received: 03/31/08 09:55									
% Solids	87.9	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	
SS-20 (KRC0615-04) Soil Sampled: 03/28/08 13:05 Received: 03/31/08 09:55									
% Solids	89.0	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

### Notes and Definitions

RPD The Relative Percent Difference was above the acceptance limit of 20%.

PRLM Preliminary results

O4 One or more surrogate recoveries were below the laboratory's established acceptance criteria.

O12 The reporting limits for this sample have been raised due to high final volume of extract.

MS4X The source sample result for this MS/MSD is greater than 4 times the spike level, therefore % recoveries are statistically insignificant.

GCRPD The RPD between the primary and secondary columns was greater than the method specified RPD of 40%.

G04 The laboratory control spike recoveries associated with this sample were below the laboratory's established acceptance criteria.

G02 The matrix QC recoveries associated with this sample were below the laboratory's established acceptance criteria.

G01 The matrix QC recoveries associated with this sample were above the laboratory's established acceptance criteria.

Dup The %RSD between the sample and its duplicate is outside the method acceptable criteria.

DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.

A-01 End check needed.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENY</b>	Bill To: <b>SAME</b>	TAT: STD <b>(5 DAY)</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS
Address: <b>KOP</b>	Address:	Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient
Report to: <b>CH/TA</b>	Phone #: ( )	Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES
E-mail: <b>CH/TA</b>	Fax #: ( )	Temp. Upon Receipt: <b>0°C</b>
Project Name: <b>Riverfront - Surface Soils</b>	State & Program: <b>PA DEP</b>	If Yes, please explain:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	ANALYSIS TYPE			LABORATORY ID NUMBER
				MeOH	H <sub>2</sub> SO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE		RCRA	PCB	PAH	
1 SS-17 PID:	3/28	12:00	Soil							1	X	X	X	<b>KRC0615</b>	
2 SS-18 PID:		12:00													
3 SS-19 PID:		1:00													
4 SS-20 PID:		1:00													
5 PID:															
6 PID:															
7 PID:															
8 PID:															
9 PID:															
10 PID:															

**101**  
**102**  
**103**  
**104**

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	3/28/04	<i>Julio J Eagles</i>	3/28/04				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
			1415				

10 April 2008

**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront - PCB Attainment

Enclosed are the results of analyses for samples received by the laboratory on 04/07/08 13:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Enid Dunmire". The signature is stylized with a large initial "E" and "D".

Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/10/08 17:20

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-321 (6)	KRD0145-01	Soil	03/28/08 08:10	04/07/08 13:11
TP-320 (4)	KRD0145-02	Soil	03/28/08 07:50	04/07/08 13:11

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/10/08 17:20

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-321 (6) (KRD0145-01) Soil</b> <b>Sampled: 03/28/08 08:10</b> <b>Received: 04/07/08 13:11</b> <b>A-01a, DILN, O12, PRLM</b>									
PCB-1016	ND	7500	ug/kg dry	50	8040721	04/08/08	04/09/08	EPA 8082	
PCB-1221	ND	7500	"	"	"	"	"	"	
PCB-1232	ND	7500	"	"	"	"	"	"	
PCB-1242	ND	7500	"	"	"	"	"	"	
PCB-1248	ND	7500	"	"	"	"	"	"	
PCB-1254	ND	7500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>19000</b>	7500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11
<b>TP-320 (4) (KRD0145-02) Soil</b> <b>Sampled: 03/28/08 07:50</b> <b>Received: 04/07/08 13:11</b> <b>A-01, DILN, PRLM</b>									
PCB-1016	ND	120000	ug/kg dry	2500	8040721	04/08/08	04/10/08	EPA 8082	
PCB-1221	ND	120000	"	"	"	"	"	"	
PCB-1232	ND	120000	"	"	"	"	"	"	
PCB-1242	ND	120000	"	"	"	"	"	"	
PCB-1248	ND	120000	"	"	"	"	"	"	
PCB-1254	ND	120000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>340000</b>	120000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

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 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/10/08 17:20

**General Chemistry**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-321 (6) (KRD0145-01) Soil Sampled: 03/28/08 08:10 Received: 04/07/08 13:11</b>									
% Solids	73.3	0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	
<b>TP-320 (4) (KRD0145-02) Soil Sampled: 03/28/08 07:50 Received: 04/07/08 13:11</b>									
% Solids	82.1	0.01	% by Weight	1	8040801	04/08/08	04/08/08	EPA 160.3	



RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/10/08 17:20

### Notes and Definitions

PRLM Preliminary results

O12 The reporting limits for this sample have been raised due to high final volume of extract.

O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample.

DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.

A-01a Needs QC.

A-01 End check and QC needed.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





07 April 2008

**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront- Surface Soils

Enclosed are the results of analyses for samples received by the laboratory on 03/31/08 09:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-17	KRC0615-01	Soil	03/28/08 12:50	03/31/08 09:55
SS-18	KRC0615-02	Soil	03/28/08 12:55	03/31/08 09:55
SS-19	KRC0615-03	Soil	03/28/08 13:00	03/31/08 09:55
SS-20	KRC0615-04	Soil	03/28/08 13:05	03/31/08 09:55

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

## Total Metals by EPA 6000/7000 Series Methods TestAmerica King Of Prussia

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>SS-17 (KRC0615-01) Soil    Sampled: 03/28/08 12:50    Received: 03/31/08 09:55</b>										
Arsenic	13	1.2		mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
Mercury	0.482	0.100		"	1	8040113	04/01/08	04/02/08	EPA 7471A	
Barium	170	0.50		"	"	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	4.1	1.0		"	"	"	"	"	"	G04
Chromium	33	2.5		"	"	"	"	"	"	
Lead	530	5.0		"	"	"	"	"	"	G04
Selenium	ND	12		"	"	"	"	"	"	
Silver	ND	2.5		"	"	"	"	"	"	
<b>SS-18 (KRC0615-02) Soil    Sampled: 03/28/08 12:55    Received: 03/31/08 09:55</b>										
Arsenic	6.7	1.2		mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
Mercury	0.399	0.100		"	1	8040113	04/01/08	04/02/08	EPA 7471A	
Barium	100	0.50		"	"	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	1.4	1.0		"	"	"	"	"	"	G04
Chromium	81	2.5		"	"	"	"	"	"	
Lead	230	5.0		"	"	"	"	"	"	G04
Selenium	ND	12		"	"	"	"	"	"	
Silver	ND	2.5		"	"	"	"	"	"	
<b>SS-19 (KRC0615-03) Soil    Sampled: 03/28/08 13:00    Received: 03/31/08 09:55</b>										
Arsenic	5.2	1.2		mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
Mercury	0.334	0.100		"	1	8040113	04/01/08	04/02/08	EPA 7471A	
Barium	100	0.50		"	"	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	1.2	1.0		"	"	"	"	"	"	G04
Chromium	35	2.5		"	"	"	"	"	"	
Lead	250	5.0		"	"	"	"	"	"	G04
Selenium	ND	12		"	"	"	"	"	"	
Silver	ND	2.5		"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront- Surface Soils Project Number: 70588-16 Project Manager: Craig Herr	<b>Reported:</b> 04/07/08 17:14
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**Total Metals by EPA 6000/7000 Series Methods**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-20 (KRC0615-04) Soil    Sampled: 03/28/08 13:05    Received: 03/31/08 09:55</b>									
<b>Arsenic</b>	<b>5.2</b>	1.2	mg/kg dry	5	8033109	03/31/08	03/31/08	EPA 7060A	DILN
<b>Mercury</b>	<b>2.99</b>	0.400	"	4	8040113	04/01/08	04/02/08	EPA 7471A	DILN
<b>Barium</b>	<b>78</b>	0.50	"	1	8033101	03/31/08	04/01/08	EPA 6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	G04
<b>Chromium</b>	<b>400</b>	2.5	"	"	"	"	"	"	
<b>Lead</b>	<b>120</b>	5.0	"	"	"	"	"	"	G04
Selenium	ND	12	"	"	"	"	"	"	
Silver	ND	2.5	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-17 (KRC0615-01) Soil</b> Sampled: 03/28/08 12:50    Received: 03/31/08 09:55									
<b>A-01, DILN, O12, PRLM</b>									
PCB-1016	ND	250	ug/kg dry	5	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>710</b>	250	"	"	"	"	"	"	GCRPD
<i>Surrogate: Tetrachloro-meta-xylene</i>		76.2 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		18.0 %	17-110	"	"	"	"	"	
<b>SS-18 (KRC0615-02) Soil</b> Sampled: 03/28/08 12:55    Received: 03/31/08 09:55									
<b>A-01, DILN, PRLM</b>									
PCB-1016	ND	100	ug/kg dry	2	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>190</b>	100	"	"	"	"	"	"	GCRPD
<i>Surrogate: Tetrachloro-meta-xylene</i>		63.6 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		12.5 %	17-110	"	"	"	"	"	O4
<b>SS-19 (KRC0615-03) Soil</b> Sampled: 03/28/08 13:00    Received: 03/31/08 09:55									
<b>A-01, DILN, PRLM</b>									
PCB-1016	ND	100	ug/kg dry	2	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>260</b>	100	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		58.4 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		11.3 %	17-110	"	"	"	"	"	O4

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RT ENVIRONMENTAL  
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 King of Prussia PA, 19406

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 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/07/08 17:14

**Polychlorinated Biphenyls by EPA Method 8082**

**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-20 (KRC0615-04) Soil</b> <b>Sampled: 03/28/08 13:05</b> <b>Received: 03/31/08 09:55</b>									
									<b>A-01, DILN, PRLM</b>
PCB-1016	ND	100	ug/kg dry	2	8033102	03/31/08	04/07/08	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	ND	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>100</b>	100	"	"	"	"	"	"	GCRPD
<i>Surrogate: Tetrachloro-meta-xylene</i>		47.8 %		43-112	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		8.06 %		17-110	"	"	"	"	04

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RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

## Semivolatile Organic Compounds by EPA Method 8270C

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-17 (KRC0615-01) Soil</b> Sampled: 03/28/08 12:50 Received: 03/31/08 09:55 <span style="float: right;"><b>DILN</b></span>									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
Anthracene	ND	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>2000</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>2300</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>2900</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>1500</b>	1000	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>1300</b>	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>2200</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>4700</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1700</b>	1000	"	"	"	"	"	"	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>2100</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>3300</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		76.0 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		89.8 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		79.1 %		18-137	"	"	"	"	
<b>SS-18 (KRC0615-02) Soil</b> Sampled: 03/28/08 12:55 Received: 03/31/08 09:55 <span style="float: right;"><b>DILN</b></span>									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
Anthracene	ND	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>1800</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>1900</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>2200</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>1200</b>	1000	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>1100</b>	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>1800</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>4100</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
 Project Number: 70588-16  
 Project Manager: Craig Herr

Reported:  
 04/07/08 17:14

**Semivolatile Organic Compounds by EPA Method 8270C**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-18 (KRC0615-02) Soil</b> Sampled: 03/28/08 12:55 Received: 03/31/08 09:55 <span style="float:right"><b>DILN</b></span>									
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1400</b>	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>2000</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>2900</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		77.5 %	23-120	"	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		94.5 %	30-115	"	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		81.4 %	18-137	"	"	"	"	"	
<b>SS-19 (KRC0615-03) Soil</b> Sampled: 03/28/08 13:00 Received: 03/31/08 09:55 <span style="float:right"><b>DILN</b></span>									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
<b>Anthracene</b>	<b>1200</b>	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>4800</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>4400</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>5900</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>2400</b>	1000	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>2400</b>	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>4900</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>12000</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>2700</b>	1000	"	"	"	"	"	"	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>5200</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>8300</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		67.9 %	23-120	"	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		86.1 %	30-115	"	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		79.2 %	18-137	"	"	"	"	"	





RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
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Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

## Semivolatile Organic Compounds by EPA Method 8270C TestAmerica King Of Prussia

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SS-20 (KRC0615-04) Soil Sampled: 03/28/08 13:05 Received: 03/31/08 09:55 <span style="float: right;">DILN</span>									
Acenaphthene	ND	1000	ug/kg dry	10	8033120	04/02/08	04/04/08	EPA 8270C	
Acenaphthylene	ND	1000	"	"	"	"	"	"	
Anthracene	ND	1000	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>1500</b>	1000	"	"	"	"	"	"	
<b>Benzo[a]pyrene</b>	<b>1800</b>	1000	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>2100</b>	1000	"	"	"	"	"	"	
<b>Benzo (g,h,i) perylene</b>	<b>1100</b>	1000	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1000	"	"	"	"	"	"	
<b>Chrysene</b>	<b>1500</b>	1000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1000	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>3100</b>	1000	"	"	"	"	"	"	
Fluorene	ND	1000	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>1300</b>	1000	"	"	"	"	"	"	
Naphthalene	ND	1000	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>1000</b>	1000	"	"	"	"	"	"	
<b>Pyrene</b>	<b>2400</b>	1000	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		68.8 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		80.1 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		75.1 %		18-137	"	"	"	"	



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Project: Riverfront- Surface Soils  
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**Reported:**  
 04/07/08 17:14

**General Chemistry**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-17 (KRC0615-01) Soil</b> Sampled: 03/28/08 12:50 Received: 03/31/08 09:55									
% Solids	82.6	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	
<b>SS-18 (KRC0615-02) Soil</b> Sampled: 03/28/08 12:55 Received: 03/31/08 09:55									
% Solids	86.3	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	
<b>SS-19 (KRC0615-03) Soil</b> Sampled: 03/28/08 13:00 Received: 03/31/08 09:55									
% Solids	87.9	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	
<b>SS-20 (KRC0615-04) Soil</b> Sampled: 03/28/08 13:05 Received: 03/31/08 09:55									
% Solids	89.0	0.01	% by Weight	1	8033103	03/31/08	03/31/08	EPA 160.3	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront- Surface Soils  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/07/08 17:14

## Notes and Definitions

RPD The Relative Percent Difference was above the acceptance limit of 20%.

PRLM Preliminary results

O4 One or more surrogate recoveries were below the laboratory's established acceptance criteria.

O12 The reporting limits for this sample have been raised due to high final volume of extract.

MS4X The source sample result for this MS/MSD is greater than 4 times the spike level, therefore % recoveries are statistically insignificant.

GCRPD The RPD between the primary and secondary columns was greater than the method specified RPD of 40%.

G04 The laboratory control spike recoveries associated with this sample were below the laboratory's established acceptance criteria.

G02 The matrix QC recoveries associated with this sample were below the laboratory's established acceptance criteria.

G01 The matrix QC recoveries associated with this sample were above the laboratory's established acceptance criteria.

Dup The %RSD between the sample and its duplicate is outside the method acceptable criteria.

DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.

A-01 End check needed.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: **RT ENY** Bill To: **SAME** TAT: STD **5 DAY** 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.  
 Address: **KOP** Address: Received:  ice  ambient DATE RESULTS NEEDED:  
 Report to: **CH/TA** Phone #: ( ) State & Program: **PA DEP** Phone #: ( )  
 E-mail: **CH/TA** Fax #: ( ) Fax #: ( ) Deliverable Package:  NO  YES Temp. Upon Receipt: **OC**  
 Project Name: **Riverfront - Surface Soils** Terms: Net 30 days If Yes, please explain:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	RCRA	PCB	PAH	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER	
				MgOH	NaHCO <sub>3</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE							CRACKED/BROKEN	IMPROPERLY SEALED		
1 SS-17 PID:	3/28	12:00	Soil							11		X	X	X						<del>KRC0615</del> 101
2 SS-18 PID:		12:55																		102
3 SS-19 PID:		1:00																		103
4 SS-20 PID:		1:05																		104
5 PID:																				
6 PID:																				
7 PID:																				
8 PID:																				
9 PID:																				
10 PID:																				

RELINQUISHED **3/28/04** RECEIVED **3/28/04** DATE TIME  
**Julio J. Eagles** DATE TIME  
 RELINQUISHED DATE RECEIVED DATE TIME  
 RELINQUISHED DATE RECEIVED DATE TIME

COMMENTS: \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

30 April 2008

**RT ENVIRONMENTAL**

Craig Herr  
215 West Church Road  
King of Prussia, PA 19406

RE: Riverfront - PCB Attainment

Enclosed are the results of analyses for samples received by the laboratory on 04/23/08 08:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Enid Dunmire  
Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/30/08 17:03

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-307 (6)	KRD0478-01	Soil	04/22/08 09:00	04/23/08 08:25
TP-400 (2)	KRD0478-04	Soil	04/22/08 09:18	04/23/08 08:25
TP-400 (4)	KRD0478-05	Soil	04/22/08 09:20	04/23/08 08:25
TP-401 (2)	KRD0478-06	Soil	04/22/08 09:15	04/23/08 08:25
TP-402 (2)	KRD0478-07	Soil	04/22/08 09:23	04/23/08 08:25
TP-402 (4)	KRD0478-08	Soil	04/22/08 09:25	04/23/08 08:25
TP-403 (1)	KRD0478-09	Soil	04/22/08 09:35	04/23/08 08:25
TP-403 (4)	KRD0478-10	Soil	04/22/08 09:38	04/23/08 08:25
TP-404 (2)	KRD0478-11	Soil	04/22/08 09:45	04/23/08 08:25
TP-450 (8)	KRD0478-12	Soil	04/22/08 10:00	04/23/08 08:25
TP-451 (6)	KRD0478-13	Soil	04/22/08 10:08	04/23/08 08:25
TP-452 (10)	KRD0478-14	Soil	04/22/08 10:20	04/23/08 08:25
TP-453 (8)	KRD0478-15	Soil	04/22/08 10:40	04/23/08 08:25
TP-454 (12)	KRD0478-16	Soil	04/22/08 11:00	04/23/08 08:25



RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/30/08 17:03

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-307 (6) (KRD0478-01) Soil</b> Sampled: 04/22/08 09:00 Received: 04/23/08 08:25									<b>DILN, O11</b>
PCB-1016	ND	3200	ug/kg dry	50	8042404	04/24/08	04/30/08	EPA 8082	
PCB-1221	ND	3200	"	"	"	"	"	"	
PCB-1232	ND	3200	"	"	"	"	"	"	
PCB-1242	ND	3200	"	"	"	"	"	"	
PCB-1248	ND	3200	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>4900</b>	3200	"	"	"	"	"	"	
PCB-1260	ND	3200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110		"	"	"	"	
<b>TP-400 (2) (KRD0478-04) Soil</b> Sampled: 04/22/08 09:18 Received: 04/23/08 08:25									<b>DILN, O11</b>
PCB-1016	ND	5000	ug/kg dry	100	8042404	04/24/08	04/30/08	EPA 8082	
PCB-1221	ND	5000	"	"	"	"	"	"	
PCB-1232	ND	5000	"	"	"	"	"	"	
PCB-1242	ND	5000	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>8300</b>	5000	"	"	"	"	"	"	
PCB-1254	ND	5000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>7900</b>	5000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110		"	"	"	"	
<b>TP-400 (4) (KRD0478-05) Soil</b> Sampled: 04/22/08 09:20 Received: 04/23/08 08:25									<b>10, DILN</b>
PCB-1016	ND	2500	ug/kg dry	50	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	2500	"	"	"	"	"	"	
PCB-1232	ND	2500	"	"	"	"	"	"	
PCB-1242	ND	2500	"	"	"	"	"	"	
PCB-1248	ND	2500	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>5700</b>	2500	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>4500</b>	2500	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112		"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110		"	"	"	"	O11

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/30/08 17:03

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-401 (2) (KRD0478-06) Soil</b> Sampled: 04/22/08 09:15 Received: 04/23/08 08:25 <span style="float:right"><b>10</b></span>									
PCB-1016	ND	63	ug/kg dry	1	8042404	04/24/08	04/25/08	EPA 8082	
PCB-1221	ND	63	"	"	"	"	"	"	
PCB-1232	ND	63	"	"	"	"	"	"	
PCB-1242	ND	63	"	"	"	"	"	"	
PCB-1248	ND	63	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>87</b>	63	"	"	"	"	"	"	
PCB-1260	ND	63	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		78.0 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		19.3 %	17-110	"	"	"	"	"	
<b>TP-402 (2) (KRD0478-07) Soil</b> Sampled: 04/22/08 09:23 Received: 04/23/08 08:25 <span style="float:right"><b>10, DILN</b></span>									
PCB-1016	ND	63000	ug/kg dry	1000	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	63000	"	"	"	"	"	"	
PCB-1232	ND	63000	"	"	"	"	"	"	
PCB-1242	ND	63000	"	"	"	"	"	"	
PCB-1248	ND	63000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>110000</b>	63000	"	"	"	"	"	"	
PCB-1260	ND	63000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11
<b>TP-402 (4) (KRD0478-08) Soil</b> Sampled: 04/22/08 09:25 Received: 04/23/08 08:25 <span style="float:right"><b>10, DILN</b></span>									
PCB-1016	ND	65000	ug/kg dry	1000	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	65000	"	"	"	"	"	"	
PCB-1232	ND	65000	"	"	"	"	"	"	
PCB-1242	ND	65000	"	"	"	"	"	"	
PCB-1248	ND	65000	"	"	"	"	"	"	
PCB-1254	ND	65000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>72000</b>	65000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%	43-112	"	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%	17-110	"	"	"	"	"	O11

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Enid Dunmire, Project Manager



RT ENVIRONMENTAL 215 West Church Road King of Prussia PA, 19406	Project: Riverfront - PCB Attainment Project Number: 70588-16 Project Manager: Craig Herr	Reported: 04/30/08 17:03
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-403 (1) (KRD0478-09) Soil</b> Sampled: 04/22/08 09:35    Received: 04/23/08 08:25 <span style="float:right">10</span>									
PCB-1016	ND	50	ug/kg dry	1	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>150</b>	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		90.4 %		43-112	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		53.2 %		17-110	"	"	"	"	
<b>TP-403 (4) (KRD0478-10) Soil</b> Sampled: 04/22/08 09:38    Received: 04/23/08 08:25 <span style="float:right">10, DILN</span>									
PCB-1016	ND	25000	ug/kg dry	500	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	25000	"	"	"	"	"	"	
PCB-1232	ND	25000	"	"	"	"	"	"	
PCB-1242	ND	25000	"	"	"	"	"	"	
PCB-1248	ND	25000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>49000</b>	25000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>28000</b>	25000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	O11
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	O11
<b>TP-404 (2) (KRD0478-11) Soil</b> Sampled: 04/22/08 09:45    Received: 04/23/08 08:25 <span style="float:right">DILN, O11</span>									
PCB-1016	ND	66000	ug/kg dry	1000	8042404	04/24/08	04/30/08	EPA 8082	
PCB-1221	ND	66000	"	"	"	"	"	"	
PCB-1232	ND	66000	"	"	"	"	"	"	
PCB-1242	ND	66000	"	"	"	"	"	"	
PCB-1248	ND	66000	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>160000</b>	66000	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>91000</b>	66000	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		%		43-112	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		%		17-110	"	"	"	"	

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/30/08 17:03

**Polychlorinated Biphenyls by EPA Method 8082**

**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-450 (8) (KRD0478-12) Soil</b> Sampled: 04/22/08 10:00 Received: 04/23/08 08:25 <span style="float:right"><b>DILN</b></span>									
PCB-1016	ND	250	ug/kg dry	5	8042404	04/24/08	04/30/08	EPA 8082	
PCB-1221	ND	250	"	"	"	"	"	"	
PCB-1232	ND	250	"	"	"	"	"	"	
PCB-1242	ND	250	"	"	"	"	"	"	
PCB-1248	ND	250	"	"	"	"	"	"	
PCB-1254	ND	250	"	"	"	"	"	"	
PCB-1260	ND	250	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		102 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		789 %	17-110	"	"	"	"	"	O5
<b>TP-451 (6) (KRD0478-13) Soil</b> Sampled: 04/22/08 10:08 Received: 04/23/08 08:25 <span style="float:right"><b>10</b></span>									
PCB-1016	ND	50	ug/kg dry	1	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>210</b>	50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>100</b>	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		60.5 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		32.2 %	17-110	"	"	"	"	"	
<b>TP-452 (10) (KRD0478-14) Soil</b> Sampled: 04/22/08 10:20 Received: 04/23/08 08:25 <span style="float:right"><b>10</b></span>									
PCB-1016	ND	50	ug/kg dry	1	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		101 %	43-112	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		15.9 %	17-110	"	"	"	"	"	O4

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/30/08 17:03

**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-453 (8) (KRD0478-15) Soil</b> Sampled: 04/22/08 10:40 Received: 04/23/08 08:25									
PCB-1016	ND	50	ug/kg dry	1	8042404	04/24/08	04/28/08	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
<b>PCB-1254</b>	<b>130</b>	50	"	"	"	"	"	"	
<b>PCB-1260</b>	<b>72</b>	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		52.8 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		76.2 %	17-110		"	"	"	"	
<b>TP-454 (12) (KRD0478-16) Soil</b> Sampled: 04/22/08 11:00 Received: 04/23/08 08:25									
PCB-1016	ND	50	ug/kg dry	1	8042404	04/24/08	04/29/08	EPA 8082	
PCB-1221	ND	50	"	"	"	"	"	"	
PCB-1232	ND	50	"	"	"	"	"	"	
PCB-1242	ND	50	"	"	"	"	"	"	
PCB-1248	ND	50	"	"	"	"	"	"	
PCB-1254	ND	50	"	"	"	"	"	"	
PCB-1260	ND	50	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		86.6 %	43-112		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		39.1 %	17-110		"	"	"	"	

10



RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/30/08 17:03

**General Chemistry**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-307 (6) (KRD0478-01) Soil Sampled: 04/22/08 09:00 Received: 04/23/08 08:25</b>									
% Solids	79.0	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-400 (2) (KRD0478-04) Soil Sampled: 04/22/08 09:18 Received: 04/23/08 08:25</b>									
% Solids	84.5	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-400 (4) (KRD0478-05) Soil Sampled: 04/22/08 09:20 Received: 04/23/08 08:25</b>									
% Solids	83.9	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-401 (2) (KRD0478-06) Soil Sampled: 04/22/08 09:15 Received: 04/23/08 08:25</b>									
% Solids	79.4	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-402 (2) (KRD0478-07) Soil Sampled: 04/22/08 09:23 Received: 04/23/08 08:25</b>									
% Solids	79.3	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-402 (4) (KRD0478-08) Soil Sampled: 04/22/08 09:25 Received: 04/23/08 08:25</b>									
% Solids	77.4	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-403 (1) (KRD0478-09) Soil Sampled: 04/22/08 09:35 Received: 04/23/08 08:25</b>									
% Solids	91.6	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-403 (4) (KRD0478-10) Soil Sampled: 04/22/08 09:38 Received: 04/23/08 08:25</b>									
% Solids	87.1	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-404 (2) (KRD0478-11) Soil Sampled: 04/22/08 09:45 Received: 04/23/08 08:25</b>									
% Solids	75.4	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
 215 West Church Road  
 King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
 Project Number: 70588-16  
 Project Manager: Craig Herr

**Reported:**  
 04/30/08 17:03

**General Chemistry**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP-450 (8) (KRD0478-12) Soil Sampled: 04/22/08 10:00 Received: 04/23/08 08:25</b>									
% Solids	86.0	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-451 (6) (KRD0478-13) Soil Sampled: 04/22/08 10:08 Received: 04/23/08 08:25</b>									
% Solids	87.8	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-452 (10) (KRD0478-14) Soil Sampled: 04/22/08 10:20 Received: 04/23/08 08:25</b>									
% Solids	85.5	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-453 (8) (KRD0478-15) Soil Sampled: 04/22/08 10:40 Received: 04/23/08 08:25</b>									
% Solids	82.7	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	
<b>TP-454 (12) (KRD0478-16) Soil Sampled: 04/22/08 11:00 Received: 04/23/08 08:25</b>									
% Solids	87.1	0.01	% by Weight	1	8042407	04/24/08	04/24/08	EPA 160.3	

TestAmerica King Of Prussia

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Enid Dunmire, Project Manager

RT ENVIRONMENTAL  
215 West Church Road  
King of Prussia PA, 19406

Project: Riverfront - PCB Attainment  
Project Number: 70588-16  
Project Manager: Craig Herr

**Reported:**  
04/30/08 17:03

**Notes and Definitions**

- O5 One or more surrogate recoveries were above the laboratory's established acceptance criteria.
- O4 One or more surrogate recoveries were below the laboratory's established acceptance criteria.
- O11 Surrogate recovery N.D. due to the dilution and/or matrix of the sample.
- DILN Due to matrix interference and or sample dilution the detection limits for this sample have been elevated.
- 10 This compound was below the method control limits in the Check Standard associated with this sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



**CHAIN OF CUSTODY REPORT**

Client: <b>RT ENV</b>	Bill To: <b>SAME</b>	TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.
Address: <b>KOP</b>	Address:	Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient
	Terms Net 30 days	Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES
Report to: <b>Cherr / Donovan</b>	Phone #: ( )	DATE RESULTS NEEDED:
E-mail: <b>Cherr / Donovan</b>	Fax #: ( )	Temp. Upon Receipt: <b>0</b>
State & Program: <b>PA DEP</b>	Phone #: ( )	
	Fax #: ( )	If Yes, please explain:

Project Name: <b>Riverfort PCB Attainment</b>	Project #/PO#: <b>70588-16</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE					
1] <b>TD-307(6)</b>	PID:		<b>4/22</b>	<b>900</b>	<b>GL</b>							<b>1 1</b>	<b>X</b>			<b>NRD0478-01</b>	
2] <b>TD-307(8)</b>	PID:			<b>905</b>												<b>02</b>	
3] <b>TD-307(10)</b>	PID:			<b>910</b>												<b>03</b>	
4] <b>TD-400(2)</b>	PID:			<b>914</b>												<b>04</b>	
5] <b>TD-400(4)</b>	PID:			<b>920</b>												<b>05</b>	
6] <b>TD-400 401(2)</b>	PID:			<b>915</b>												<b>06</b>	
7] <b>TD-402(2)</b>	PID:			<b>923</b>												<b>07</b>	
8] <b>TD-402(4)</b>	PID:			<b>925</b>												<b>08</b>	
9] <b>TD-403(1)</b>	PID:			<b>935</b>												<b>09</b>	
10] <b>TD-403(4)</b>	PID:			<b>938</b>												<b>10</b>	

RELINQUISHED	<b>4/23/00</b>	RECEIVED	<b>4/23/00</b>	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: **Hold TD-307(8) & TD-307(10) Run REST OF SAMPLES**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: **PT ENV** Bill To: **SAME** TAT: STD. **5 DAY** 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.

Address: **KOP** Address: \_\_\_\_\_ Received:  ice  ambient DATE RESULTS NEEDED: \_\_\_\_\_

Report to: **CH/TA** Phone #: ( ) State & Program: **PA DEP** Phone #: ( )  
E-mail: **CH/TA** Fax #: ( )  
Project Name: **Riverford PCB Attainment** Terms: Net 30 days Deliverable Package:  NO  YES Temp. Upon Receipt: **0**

If Yes, please explain: \_\_\_\_\_

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED Y YES N NO	ANALYSIS TYPE	SAMPLE CONTROL CRACKED, BROKEN, IMPROPERLY SEALED	LABORATORY ID NUMBER
				MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH					
1 → 404(2) PID: _____	4/22	945	Soil						1 1	x			KR100478-11	
2 → 450(8) PID: _____		1000											12	
3 → 451(6) PID: _____		1002											13	
4 → 452(10) PID: _____		1030											14	
5 → 453(8) PID: _____		1040											15	
6 → 454(12) PID: _____		1108											16	
7 PID: _____														
8 PID: _____														
9 PID: _____														
10 PID: _____														

RELINQUISHED DATE: _____ TIME: _____	RECEIVED DATE: _____ TIME: _____	RELINQUISHED DATE: _____ TIME: _____	RECEIVED DATE: _____ TIME: _____
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COMMENTS: \_\_\_\_\_

PAGE \_\_\_\_\_ OF \_\_\_\_\_



**2013**

Technical Report for

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KEM Partners, Inc.

Anderson Phase II

7311

Accutest Job Number: JB27732

Sampling Date: 01/31/13

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Report to:

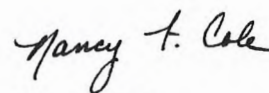
KEM Partners, Inc.  
835 Springdale Drive Suite 200  
Exton, PA 19341  
SWiswall@KemPartners.com

ATTN: Stuart Wiswall

Total number of pages in report: **411**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Nancy Cole  
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

KEM Partners, Inc.

Job No: JB27732

Anderson Phase II  
Project No: 7311

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB27732-1	01/31/13	09:02 SW	01/31/13	SO	Soil	TP1-1.5
JB27732-2	01/31/13	11:20 SW	01/31/13	SO	Soil	TP3-8.0
JB27732-3	01/31/13	14:25 SW	01/31/13	SO	Soil	TP5-2.0

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** KEM Partners, Inc.

**Job No** JB27732

**Site:** Anderson Phase II

**Report Date** 2/18/2013 8:21:07 AM

On 01/31/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB27732 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VE8772

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB27765-3MS, JB27765-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB27732-2: Dilution required due to matrix interference.

**Matrix:** SO **Batch ID:** VX5772

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27838-1DUP, JB27838-3MS, JB27838-1DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Isopropylbenzene are outside control limits for sample JB27838-1DUP. High RPD due to low concentration of hit

### Extractables by GCMS By Method SW846 8270D

**Matrix:** SO **Batch ID:** OP63503

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27732-1MS, JB27732-1MSD were used as the QC samples indicated.

### Extractables by GC By Method SW846 8082A

**Matrix:** SO **Batch ID:** OP63322

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27695-4MS, JB27695-4MSD, OP63322-MSMSD were used as the QC samples indicated.



## Summary of Hits

**Job Number:** JB27732  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 01/31/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**JB27732-1 TP1-1.5**

Methylcyclohexane	1.9 J	9.2	0.31	ug/kg	SW846 8260B
Acenaphthene	33.3 J	40	12	ug/kg	SW846 8270D
Acenaphthylene	31.1 J	40	13	ug/kg	SW846 8270D
Anthracene	124	40	14	ug/kg	SW846 8270D
Benzo(a)anthracene	483	40	13	ug/kg	SW846 8270D
Benzo(a)pyrene	437	40	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene	451	40	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	273	40	15	ug/kg	SW846 8270D
Benzo(k)fluoranthene	335	40	15	ug/kg	SW846 8270D
Carbazole	42.8 J	79	18	ug/kg	SW846 8270D
Chrysene	486	40	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	94.2	40	14	ug/kg	SW846 8270D
Dibenzofuran	23.4 J	79	12	ug/kg	SW846 8270D
Dimethyl phthalate	64.8 J	79	14	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	83.0	79	35	ug/kg	SW846 8270D
Fluoranthene	883	40	18	ug/kg	SW846 8270D
Fluorene	28.5 J	40	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	250	40	14	ug/kg	SW846 8270D
2-Methylnaphthalene	26.4 J	79	22	ug/kg	SW846 8270D
Naphthalene	26.0 J	40	11	ug/kg	SW846 8270D
Phenanthrene	498	40	18	ug/kg	SW846 8270D
Pyrene	821	40	15	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	2760 J			ug/kg	
Aroclor 1260	187	39	13	ug/kg	SW846 8082A
Antimony	7.8	2.4		mg/kg	SW846 6010C
Arsenic	16.0	2.4		mg/kg	SW846 6010C
Beryllium	0.46	0.24		mg/kg	SW846 6010C
Cadmium	1.7	0.60		mg/kg	SW846 6010C
Chromium	54.9	1.2		mg/kg	SW846 6010C
Copper	228	3.0		mg/kg	SW846 6010C
Lead	428	2.4		mg/kg	SW846 6010C
Mercury	1.5	0.17		mg/kg	SW846 7471B
Nickel	26.0	4.8		mg/kg	SW846 6010C
Silver	0.77	0.60		mg/kg	SW846 6010C
Zinc	369	2.4		mg/kg	SW846 6010C
Cyanide	0.36	0.28		mg/kg	SW846 9012 M/LACHAT

**JB27732-2 TP3-8.0**

Cyclohexane <sup>a</sup>	219 J	500	12	ug/kg	SW846 8260B
Methylcyclohexane <sup>a</sup>	479 J	500	17	ug/kg	SW846 8260B
Total TIC, Volatile	167100 J			ug/kg	
Acenaphthene	522	37	11	ug/kg	SW846 8270D



## Summary of Hits

**Job Number:** JB27732  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 01/31/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Anthracene		146	37	13	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		81.0	74	33	ug/kg	SW846 8270D
Fluorene		706	37	12	ug/kg	SW846 8270D
Phenanthrene		957	37	17	ug/kg	SW846 8270D
Pyrene		201	37	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		85800 J			ug/kg	
Arsenic		22.7	2.3		mg/kg	SW846 6010C
Beryllium		0.37	0.23		mg/kg	SW846 6010C
Cadmium		2.6	0.57		mg/kg	SW846 6010C
Chromium		9.8	1.1		mg/kg	SW846 6010C
Copper		927	2.9		mg/kg	SW846 6010C
Lead		1500	2.3		mg/kg	SW846 6010C
Mercury		0.12	0.036		mg/kg	SW846 7471B
Nickel		61.3	4.6		mg/kg	SW846 6010C
Zinc		72.9	2.3		mg/kg	SW846 6010C

**JB27732-3      TP5-2.0**

Acenaphthene		79.0	38	11	ug/kg	SW846 8270D
Acenaphthylene		34.1 J	38	12	ug/kg	SW846 8270D
Anthracene		193	38	13	ug/kg	SW846 8270D
Benzo(a)anthracene		628	38	12	ug/kg	SW846 8270D
Benzo(a)pyrene		579	38	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene		571	38	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		365	38	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene		439	38	14	ug/kg	SW846 8270D
Carbazole		59.1 J	76	18	ug/kg	SW846 8270D
Chrysene		684	38	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		111	38	13	ug/kg	SW846 8270D
Dibenzofuran		31.2 J	76	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		132	76	34	ug/kg	SW846 8270D
Fluoranthene		1210	38	17	ug/kg	SW846 8270D
Fluorene		68.3	38	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		324	38	13	ug/kg	SW846 8270D
Naphthalene		33.1 J	38	10	ug/kg	SW846 8270D
Phenanthrene		1030	38	17	ug/kg	SW846 8270D
Pyrene		1310	38	15	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		3450 J			ug/kg	
Arsenic		44.6	2.5		mg/kg	SW846 6010C
Beryllium		0.78	0.25		mg/kg	SW846 6010C
Cadmium		1.0	0.63		mg/kg	SW846 6010C
Chromium		21.8	1.3		mg/kg	SW846 6010C
Copper		66.6	3.1		mg/kg	SW846 6010C
Lead		202	2.5		mg/kg	SW846 6010C
Mercury		0.43	0.037		mg/kg	SW846 7471B

## Summary of Hits

**Job Number:** JB27732  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 01/31/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		40.4	5.0		mg/kg	SW846 6010C
Zinc		395	2.5		mg/kg	SW846 6010C

(a) Dilution required due to matrix interference.

Sample Results

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Report of Analysis

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Accutest Laboratories

## Report of Analysis

Page 1 of 2

<b>Client Sample ID:</b> TP1-1.5		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133127.D	1	02/06/13	MS	n/a	n/a	VX5772
Run #2							

Run #	Initial Weight
Run #1	3.3 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	18	3.1	ug/kg	
71-43-2	Benzene	ND	1.8	0.22	ug/kg	
74-97-5	Bromochloromethane	ND	9.2	0.49	ug/kg	
75-27-4	Bromodichloromethane	ND	9.2	0.19	ug/kg	
75-25-2	Bromoform	ND	9.2	0.28	ug/kg	
74-83-9	Bromomethane	ND	9.2	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	18	4.4	ug/kg	
75-15-0	Carbon disulfide	ND	9.2	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	9.2	0.24	ug/kg	
108-90-7	Chlorobenzene	ND	9.2	0.20	ug/kg	
75-00-3	Chloroethane	ND	9.2	0.42	ug/kg	
67-66-3	Chloroform	ND	9.2	0.15	ug/kg	
74-87-3	Chloromethane	ND	9.2	0.34	ug/kg	
110-82-7	Cyclohexane	ND	9.2	0.23	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	18	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	9.2	0.30	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.8	0.23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	9.2	0.35	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	9.2	0.34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	9.2	0.32	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	9.2	0.42	ug/kg	
75-34-3	1,1-Dichloroethane	ND	9.2	0.25	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.8	0.25	ug/kg	
75-35-4	1,1-Dichloroethene	ND	9.2	0.47	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	9.2	0.34	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	9.2	0.44	ug/kg	
78-87-5	1,2-Dichloropropane	ND	9.2	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	9.2	0.26	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	9.2	0.28	ug/kg	
123-91-1	1,4-Dioxane	ND	230	110	ug/kg	
100-41-4	Ethylbenzene	ND	1.8	0.48	ug/kg	
76-13-1	Freon 113	ND	9.2	0.79	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP1-1.5		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

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## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	9.2	1.1	ug/kg	
98-82-8	Isopropylbenzene	ND	9.2	0.14	ug/kg	
79-20-9	Methyl Acetate	ND	9.2	4.8	ug/kg	
108-87-2	Methylcyclohexane	1.9	9.2	0.31	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.8	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	9.2	1.4	ug/kg	
75-09-2	Methylene chloride	ND	9.2	2.3	ug/kg	
100-42-5	Styrene	ND	9.2	0.17	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	9.2	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	9.2	0.32	ug/kg	
108-88-3	Toluene	ND	1.8	0.19	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	9.2	0.30	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	9.2	0.26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	9.2	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	9.2	0.32	ug/kg	
79-01-6	Trichloroethene	ND	9.2	0.32	ug/kg	
75-69-4	Trichlorofluoromethane	ND	9.2	0.55	ug/kg	
75-01-4	Vinyl chloride	ND	9.2	0.26	ug/kg	
	m,p-Xylene	ND	1.8	0.32	ug/kg	
95-47-6	o-Xylene	ND	1.8	0.26	ug/kg	
1330-20-7	Xylene (total)	ND	1.8	0.26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	84%		70-122%
2037-26-5	Toluene-D8	97%		81-127%
460-00-4	4-Bromofluorobenzene	90%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b> TP1-1.5		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P70778.D	1	02/14/13	NAP	02/12/13	OP63503	EP3028
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	33.3	40	12	ug/kg	J
208-96-8	Acenaphthylene	31.1	40	13	ug/kg	J
98-86-2	Acetophenone	ND	200	7.0	ug/kg	
120-12-7	Anthracene	124	40	14	ug/kg	
1912-24-9	Atrazine	ND	200	7.8	ug/kg	
56-55-3	Benzo(a)anthracene	483	40	13	ug/kg	
50-32-8	Benzo(a)pyrene	437	40	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	451	40	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	273	40	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	335	40	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	79	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	79	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	79	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	79	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	42.8	79	18	ug/kg	J
105-60-2	Caprolactam	ND	79	13	ug/kg	
218-01-9	Chrysene	486	40	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	79	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	79	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	79	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	79	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	79	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	79	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	94.2	40	14	ug/kg	
132-64-9	Dibenzofuran	23.4	79	12	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	79	8.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	79	19	ug/kg	
84-66-2	Diethyl phthalate	ND	79	14	ug/kg	
131-11-3	Dimethyl phthalate	64.8	79	14	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	TP1-1.5	<b>Date Sampled:</b>	01/31/13
<b>Lab Sample ID:</b>	JB27732-1	<b>Date Received:</b>	01/31/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.5
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	83.0	79	35	ug/kg	
206-44-0	Fluoranthene	883	40	18	ug/kg	
86-73-7	Fluorene	28.5	40	13	ug/kg	J
118-74-1	Hexachlorobenzene	ND	79	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	41	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	250	40	14	ug/kg	
78-59-1	Isophorone	ND	79	11	ug/kg	
91-57-6	2-Methylnaphthalene	26.4	79	22	ug/kg	J
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	26.0	40	11	ug/kg	J
98-95-3	Nitrobenzene	ND	79	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	79	9.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	24	ug/kg	
85-01-8	Phenanthrene	498	40	18	ug/kg	
129-00-0	Pyrene	821	40	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		21-122%
321-60-8	2-Fluorobiphenyl	51%		30-117%
1718-51-0	Terphenyl-d14	61%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.45	180	ug/kg	J
	system artifact/aldol-condensation	2.64	4700	ug/kg	J
	C3 alkyl benzene	3.40	200	ug/kg	J
	unknown	3.48	560	ug/kg	J
	unknown	3.60	170	ug/kg	J
	unknown	4.02	170	ug/kg	J
	unknown	4.21	160	ug/kg	J
	unknown	11.98	170	ug/kg	J
	Pyrene, -methyl-	13.42	200	ug/kg	J
	unknown PAH substance	15.55	170	ug/kg	J
	unknown	15.65	180	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP1-1.5	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

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**BN TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown PAH substance	15.73	380	ug/kg	J
	unknown	16.95	220	ug/kg	J
	unknown	17.47	180	ug/kg	J
	Total TIC, Semi-Volatile		2760	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



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### Report of Analysis

<b>Client Sample ID:</b> TP1-1.5	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF117278.D	1	02/05/13	HQ	02/04/13	OP63322	GEF4676
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	187	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	11	ug/kg	
37324-23-5	Aroclor 1262	ND	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		22-141%
877-09-8	Tetrachloro-m-xylene	69%		22-141%
2051-24-3	Decachlorobiphenyl	125%		18-163%
2051-24-3	Decachlorobiphenyl	111%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> TP1-1.5	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Project:</b> Anderson Phase II	

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### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	7.8	2.4	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	16.0	2.4	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.46	0.24	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	1.7	0.60	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	54.9	1.2	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	228	3.0	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	428	2.4	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	1.5	0.17	mg/kg	5	02/04/13	02/04/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	26.0	4.8	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.4	2.4	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	0.77	0.60	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.2	1.2	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	369	2.4	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30405
- (2) Instrument QC Batch: MA30421
- (3) Prep QC Batch: MP69583
- (4) Prep QC Batch: MP69587

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> TP1-1.5	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-1	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Project:</b> Anderson Phase II	

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### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.36	0.28	mg/kg	1	02/05/13 16:34	NP	SW846 9012 M/LACHAT
Solids, Percent	82.5		%	1	02/05/13 19:00	MH	SM2540 G-97

RL = Reporting Limit

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### Report of Analysis

<b>Client Sample ID:</b> TP3-8.0		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	E199596.D	1	02/05/13	OTR	n/a	n/a	VE8772
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.5 g	10.0 ml	100 ul
Run #2			

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1000	170	ug/kg	
71-43-2	Benzene	ND	100	12	ug/kg	
74-97-5	Bromochloromethane	ND	500	27	ug/kg	
75-27-4	Bromodichloromethane	ND	500	11	ug/kg	
75-25-2	Bromoform	ND	500	15	ug/kg	
74-83-9	Bromomethane	ND	500	27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1000	240	ug/kg	
75-15-0	Carbon disulfide	ND	500	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	500	13	ug/kg	
108-90-7	Chlorobenzene	ND	500	11	ug/kg	
75-00-3	Chloroethane	ND	500	23	ug/kg	
67-66-3	Chloroform	ND	500	8.3	ug/kg	
74-87-3	Chloromethane	ND	500	19	ug/kg	
110-82-7	Cyclohexane	219	500	12	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	89	ug/kg	
124-48-1	Dibromochloromethane	ND	500	16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	100	13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	500	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	500	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	500	18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	500	23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	500	14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	100	14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	500	26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	500	18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	500	24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	500	15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	500	14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	500	16	ug/kg	
123-91-1	1,4-Dioxane	ND	13000	6000	ug/kg	
100-41-4	Ethylbenzene	ND	100	26	ug/kg	
76-13-1	Freon 113	ND	500	43	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.2  
4

## Report of Analysis

<b>Client Sample ID:</b> TP3-8.0	
<b>Lab Sample ID:</b> JB27732-2	<b>Date Sampled:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 01/31/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 84.6
<b>Project:</b> Anderson Phase II	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	500	62	ug/kg	
98-82-8	Isopropylbenzene	ND	500	7.4	ug/kg	
79-20-9	Methyl Acetate	ND	500	260	ug/kg	
108-87-2	Methylcyclohexane	479	500	17	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	100	24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	75	ug/kg	
75-09-2	Methylene chloride	ND	500	130	ug/kg	
100-42-5	Styrene	ND	500	9.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	13	ug/kg	
127-18-4	Tetrachloroethene	ND	500	17	ug/kg	
108-88-3	Toluene	ND	100	11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	500	16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	500	14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	500	11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	500	17	ug/kg	
79-01-6	Trichloroethene	ND	500	17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	500	30	ug/kg	
75-01-4	Vinyl chloride	ND	500	14	ug/kg	
	m,p-Xylene	ND	100	17	ug/kg	
95-47-6	o-Xylene	ND	100	14	ug/kg	
1330-20-7	Xylene (total)	ND	100	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	82%		70-122%
2037-26-5	Toluene-D8	93%		81-127%
460-00-4	4-Bromofluorobenzene	93%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	cyclohexane alkyl	15.09	6400	ug/kg	J
	cyclohexane alkyl	16.53	6800	ug/kg	J
	Naphthalene decahydro	17.18	7400	ug/kg	J
	Naphthalene decahydro-methyl	17.85	7900	ug/kg	J
	unknown	18.09	14000	ug/kg	J
	1H-indene-dihydro-methyl-	18.48	15000	ug/kg	J
	dihydrodimethylindene + C5 alkyl benzene	18.79	16000	ug/kg	J
	1H-Indene-dihydro-dimethyl	19.00	24000	ug/kg	J
	1H-indene-dihydro-trimethyl-	19.17	6600	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP3-8.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

4.2  
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**VOA TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	19.37	9200	ug/kg	J
	unknown	19.47	7800	ug/kg	J
	1H-Indene-dihydro-dimethyl	19.61	17000	ug/kg	J
	unknown	19.73	12000	ug/kg	J
	1H-Indene-dihydro-dimethyl	19.84	8800	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.10	8200	ug/kg	J
	Total TIC, Volatile		167100	ug/kg	J

(a) Dilution required due to matrix interference.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

### Report of Analysis

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<b>Client Sample ID:</b> TP3-8.0		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P70776.D	1	02/14/13	NAP	02/12/13	OP63503	EP3028
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

#### BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	522	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.5	ug/kg	
120-12-7	Anthracene	146	37	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	ND	37	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.2  
4

### Report of Analysis

<b>Client Sample ID:</b> TP3-8.0		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

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**BN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	81.0	74	33	ug/kg	
206-44-0	Fluoranthene	ND	37	16	ug/kg	
86-73-7	Fluorene	706	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	13	ug/kg	
78-59-1	Isophorone	ND	74	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	957	37	17	ug/kg	
129-00-0	Pyrene	201	37	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		21-122%
321-60-8	2-Fluorobiphenyl	82%		30-117%
1718-51-0	Terphenyl-d14	79%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene, -dihydro--trime	7.41	3000	ug/kg	J
	Naphthalene tetrahydro-methyl	7.50	4300	ug/kg	J
	Naphthalene dimethyl	8.26	5600	ug/kg	J
	Decahydro--pentamethylna	8.30	3100	ug/kg	J
	alkane	8.49	5600	ug/kg	J
	Naphthalene trimethyl	9.32	6000	ug/kg	J
	alkane	9.98	11000	ug/kg	J
	unknown	10.11	6100	ug/kg	J
	alkane	10.41	18000	ug/kg	J
	unknown	10.45	2800	ug/kg	J
	9H-Fluorene, -methyl-	10.57	3200	ug/kg	J

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



**Report of Analysis**

<b>Client Sample ID:</b> TP3-8.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

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**BN TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	10.66	4600	ug/kg	J
	Azulene, -ethyl--dimethyl-	10.78	4600	ug/kg	J
	alkane	11.67	4500	ug/kg	J
	alkane	12.64	3400	ug/kg	J
	Total TIC, Semi-Volatile		85800	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

<b>Client Sample ID:</b> TP3-8.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF117348.D	1	02/07/13	HQ	02/04/13	OP63322	GEF4678
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.7	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		22-141%
877-09-8	Tetrachloro-m-xylene	81%		22-141%
2051-24-3	Decachlorobiphenyl	52%		18-163%
2051-24-3	Decachlorobiphenyl	51%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.2  
4

## Report of Analysis

<b>Client Sample ID:</b> TP3-8.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-2	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.6
<b>Project:</b> Anderson Phase II	

4.2  
4

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	22.7	2.3	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.37	0.23	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	2.6	0.57	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	9.8	1.1	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	927	2.9	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	1500	2.3	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.12	0.036	mg/kg	1	02/04/13	02/04/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	61.3	4.6	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.3	2.3	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.57	0.57	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.1	1.1	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	72.9	2.3	mg/kg	1	02/04/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30405
- (2) Instrument QC Batch: MA30421
- (3) Prep QC Batch: MP69583
- (4) Prep QC Batch: MP69587

RL = Reporting Limit

## Report of Analysis

**Client Sample ID:** TP3-8.0  
**Lab Sample ID:** JB27732-2  
**Matrix:** SO - Soil  
**Project:** Anderson Phase II

**Date Sampled:** 01/31/13  
**Date Received:** 01/31/13  
**Percent Solids:** 84.6

4.2  
4

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.28	0.28	mg/kg	1	02/05/13 16:35	NP	SW846 9012 M/LACHAT
Solids, Percent	84.6		%	1	02/05/13 19:00	MH	SM2540 G-97

RL = Reporting Limit

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### Report of Analysis

<b>Client Sample ID:</b> TP5-2.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133128.D	1	02/06/13	MS	n/a	n/a	VX5772
Run #2							

Run #	Initial Weight
Run #1	3.9 g
Run #2	

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	15	2.6	ug/kg	
71-43-2	Benzene	ND	1.5	0.18	ug/kg	
74-97-5	Bromochloromethane	ND	7.7	0.41	ug/kg	
75-27-4	Bromodichloromethane	ND	7.7	0.16	ug/kg	
75-25-2	Bromoform	ND	7.7	0.23	ug/kg	
74-83-9	Bromomethane	ND	7.7	0.42	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	3.7	ug/kg	
75-15-0	Carbon disulfide	ND	7.7	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.7	0.21	ug/kg	
108-90-7	Chlorobenzene	ND	7.7	0.17	ug/kg	
75-00-3	Chloroethane	ND	7.7	0.35	ug/kg	
67-66-3	Chloroform	ND	7.7	0.13	ug/kg	
74-87-3	Chloromethane	ND	7.7	0.29	ug/kg	
110-82-7	Cyclohexane	ND	7.7	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	15	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	7.7	0.25	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.5	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.7	0.29	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.7	0.29	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.7	0.27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.7	0.35	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.7	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.7	0.40	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.7	0.28	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.7	0.37	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.7	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.7	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.7	0.24	ug/kg	
123-91-1	1,4-Dioxane	ND	190	92	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	0.41	ug/kg	
76-13-1	Freon 113	ND	7.7	0.66	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
**4**

## Report of Analysis

<b>Client Sample ID:</b> TP5-2.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.7	0.96	ug/kg	
98-82-8	Isopropylbenzene	ND	7.7	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	7.7	4.0	ug/kg	
108-87-2	Methylcyclohexane	ND	7.7	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.7	1.2	ug/kg	
75-09-2	Methylene chloride	ND	7.7	2.0	ug/kg	
100-42-5	Styrene	ND	7.7	0.14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.7	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	7.7	0.27	ug/kg	
108-88-3	Toluene	ND	1.5	0.16	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.7	0.25	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.7	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.7	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.7	0.27	ug/kg	
79-01-6	Trichloroethene	ND	7.7	0.27	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.7	0.46	ug/kg	
75-01-4	Vinyl chloride	ND	7.7	0.22	ug/kg	
	m,p-Xylene	ND	1.5	0.27	ug/kg	
95-47-6	o-Xylene	ND	1.5	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
17060-07-0	1,2-Dichloroethane-D4	83%		70-122%
2037-26-5	Toluene-D8	98%		81-127%
460-00-4	4-Bromofluorobenzene	91%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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<b>Client Sample ID:</b> TP5-2.0		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P70777.D	1	02/14/13	NAP	02/12/13	OP63503	EP3028
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	79.0	38	11	ug/kg	
208-96-8	Acenaphthylene	34.1	38	12	ug/kg	J
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
120-12-7	Anthracene	193	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.5	ug/kg	
56-55-3	Benzo(a)anthracene	628	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	579	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	571	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	365	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	439	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	59.1	76	18	ug/kg	J
105-60-2	Caprolactam	ND	76	12	ug/kg	
218-01-9	Chrysene	684	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	76	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	76	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	111	38	13	ug/kg	
132-64-9	Dibenzofuran	31.2	76	11	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	76	8.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	19	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	13	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
4

## Report of Analysis

<b>Client Sample ID:</b> TP5-2.0		<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3		<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	132	76	34	ug/kg	
206-44-0	Fluoranthene	1210	38	17	ug/kg	
86-73-7	Fluorene	68.3	38	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	324	38	13	ug/kg	
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	33.1	38	10	ug/kg	J
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	1030	38	17	ug/kg	
129-00-0	Pyrene	1310	38	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	38%		21-122%
321-60-8	2-Fluorobiphenyl	37%		30-117%
1718-51-0	Terphenyl-d14	53%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.45	250	ug/kg	J
	system artifact/aldol-condensation	2.64	6600	ug/kg	J
	C3 alkyl benzene	3.40	260	ug/kg	J
	unknown	3.48	940	ug/kg	J
	unknown	4.20	260	ug/kg	J
	Anthracene, -methyl-	11.83	170	ug/kg	J
	Phenanthrene, -methyl-	11.87	210	ug/kg	J
	unknown	11.98	280	ug/kg	J
	-Phenylnaphthalene	12.24	230	ug/kg	J
	Phenanthrene, -dimethyl-	12.58	180	ug/kg	J
	Pyrene, -methyl-	13.42	330	ug/kg	J

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> TP5-2.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

4.3  
4

**BN TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown PAH substance	15.55	190	ug/kg	J
	unknown PAH substance	15.73	400	ug/kg	J
	Total TIC, Semi-Volatile		3450	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

### Report of Analysis

<b>Client Sample ID:</b> TP5-2.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF117280.D	1	02/05/13	HQ	02/04/13	OP63322	GEF4676
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	13	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	12	ug/kg	
37324-23-5	Aroclor 1262	ND	39	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		22-141%
877-09-8	Tetrachloro-m-xylene	52%		22-141%
2051-24-3	Decachlorobiphenyl	56%		18-163%
2051-24-3	Decachlorobiphenyl	54%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
**4**

## Report of Analysis

<b>Client Sample ID:</b> TP5-2.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Project:</b> Anderson Phase II	

4.3  
4

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.5	2.5	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	44.6	2.5	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.78	0.25	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	1.0	0.63	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	21.8	1.3	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	66.6	3.1	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	202	2.5	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.43	0.037	mg/kg	1	02/04/13	02/04/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	40.4	5.0	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.5	2.5	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.63	0.63	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.3	1.3	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	395	2.5	mg/kg	1	02/04/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30405
- (2) Instrument QC Batch: MA30421
- (3) Prep QC Batch: MP69583
- (4) Prep QC Batch: MP69587

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> TP5-2.0	<b>Date Sampled:</b> 01/31/13
<b>Lab Sample ID:</b> JB27732-3	<b>Date Received:</b> 01/31/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Project:</b> Anderson Phase II	

4.3  
4

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.28	0.28	mg/kg	1	02/05/13 16:36	NP	SW846 9012 M/LACHAT
Solids, Percent	83.1		%	1	02/05/13 19:00	MH	SM2540 G-97

RL = Reporting Limit

Misc. Forms

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5

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody





# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB27732 Client: \_\_\_\_\_ Project: \_\_\_\_\_

Date / Time Received: 1/31/2013 Delivery Method: \_\_\_\_\_ Airbill #'s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (1.2/1.2); 0

<u>Cooler Security</u>		<u>Y</u> or <u>N</u>		<u>Y</u> or <u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y</u> or <u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	_____	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y</u> or <u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>		<u>Y</u> or <u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>		<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>			<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>			<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>			<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1  
5

Technical Report for

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KEM Partners, Inc.

Anderson Phase II

7311

Accutest Job Number: JB27829

Sampling Date: 02/01/13

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Report to:

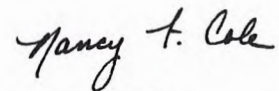
KEM Partners, Inc.  
835 Springdale Drive Suite 200  
Exton, PA 19341  
SWiswall@KemPartners.com

ATTN: Stuart Wiswall

Total number of pages in report: **472**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Nancy F. Cole".

Nancy Cole  
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.



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### Sample Summary

KEM Partners, Inc.

Job No: JB27829

Anderson Phase II  
Project No: 7311

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB27829-1	02/01/13	10:00 JSW	02/01/13	SO	Soil	TP8-4.0
JB27829-2	02/01/13	12:00 JSW	02/01/13	SO	Soil	TP9-4.0
JB27829-3	02/01/13	15:50 JSW	02/01/13	SO	Soil	TP11-4.5

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** KEM Partners, Inc.

**Job No** JB27829

**Site:** Anderson Phase II

**Report Date** 2/19/2013 6:16:32 PM

On 02/01/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB27829 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VV5716

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28392-4MS, JB28407-1DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Tetrachloroethene are outside control limits for sample JB28407-1DUP. High RPD due to low concentration of hit

**Matrix:** SO **Batch ID:** VX5772

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27838-3MS, JB27838-1DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Isopropylbenzene are outside control limits for sample JB27838-1DUP. High RPD due to low concentration of hit

### Extractables by GCMS By Method SW846 8270D

**Matrix:** SO **Batch ID:** OP63506

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27801-IMS, JB27801-IMSD were used as the QC samples indicated.
- JB27829-1: Dilution required due to matrix interference.

### Extractables by GC By Method SW846 8082A

**Matrix:** SO **Batch ID:** OP63344

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27533-IMS, JB27533-IMSD were used as the QC samples indicated.

### Metals By Method SW846 6010C

**Matrix:** SO**Batch ID:** MP69616

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27946-1MS, JB27946-1MSD, JB27946-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Silver, Thallium are outside control limits for sample MP69616-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

### Metals By Method SW846 7471B

**Matrix:** SO**Batch ID:** MP69609

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27829-2MS, JB27829-2MSD were used as the QC samples for metals.

### Wet Chemistry By Method SM2540 G-97

**Matrix:** SO**Batch ID:** GN79527

- The data for SM2540 G-97 meets quality control requirements.

### Wet Chemistry By Method SW846 9012 M/LACHAT

**Matrix:** SO**Batch ID:** GP69894

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB27694-1AMS, JB27694-1ADUP were used as the QC samples for Cyanide.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP69894-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

## Summary of Hits

**Job Number:** JB27829  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 02/01/13



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
JB27829-1	TP8-4.0					
		Acetone	26.6	9.3	1.6	ug/kg SW846 8260B
		Carbon disulfide	0.73 J	4.7	0.11	ug/kg SW846 8260B
		1,2-Dichlorobenzene	3.7 J	4.7	0.18	ug/kg SW846 8260B
		1,1-Dichloroethane	2.5 J	4.7	0.13	ug/kg SW846 8260B
		cis-1,2-Dichloroethene	3.6 J	4.7	0.17	ug/kg SW846 8260B
		Ethylbenzene	1.4	0.93	0.25	ug/kg SW846 8260B
		Isopropylbenzene	0.24 J	4.7	0.069	ug/kg SW846 8260B
		Methylcyclohexane	0.24 J	4.7	0.16	ug/kg SW846 8260B
		Tetrachloroethene	0.25 J	4.7	0.16	ug/kg SW846 8260B
		Trichloroethene	1.7 J	4.7	0.16	ug/kg SW846 8260B
		m,p-Xylene	0.60 J	0.93	0.16	ug/kg SW846 8260B
		o-Xylene	0.30 J	0.93	0.13	ug/kg SW846 8260B
		Xylene (total)	0.90 J	0.93	0.13	ug/kg SW846 8260B
		Total TIC, Volatile	11.9 J			ug/kg
		Acenaphthene <sup>a</sup>	420	180	52	ug/kg SW846 8270D
		Anthracene <sup>a</sup>	561	180	63	ug/kg SW846 8270D
		Benzo(a)anthracene <sup>a</sup>	907	180	59	ug/kg SW846 8270D
		Benzo(a)pyrene <sup>a</sup>	650	180	55	ug/kg SW846 8270D
		Benzo(b)fluoranthene <sup>a</sup>	945	180	60	ug/kg SW846 8270D
		Benzo(g,h,i)perylene <sup>a</sup>	518	180	67	ug/kg SW846 8270D
		Benzo(k)fluoranthene <sup>a</sup>	357	180	68	ug/kg SW846 8270D
		Butyl benzyl phthalate	25500	1400	420	ug/kg SW846 8270D
		1,1'-Biphenyl <sup>a</sup>	3610	360	21	ug/kg SW846 8270D
		Carbazole <sup>a</sup>	319 J	360	83	ug/kg SW846 8270D
		Chrysene <sup>a</sup>	1050	180	61	ug/kg SW846 8270D
		Dibenzo(a,h)anthracene <sup>a</sup>	158 J	180	61	ug/kg SW846 8270D
		Dibenzofuran <sup>a</sup>	274 J	360	53	ug/kg SW846 8270D
		Di-n-butyl phthalate <sup>a</sup>	1890	360	40	ug/kg SW846 8270D
		Diethyl phthalate <sup>a</sup>	218 J	360	61	ug/kg SW846 8270D
		bis(2-Ethylhexyl)phthalate <sup>a</sup>	3930	360	160	ug/kg SW846 8270D
		Fluoranthene <sup>a</sup>	1880	180	79	ug/kg SW846 8270D
		Fluorene <sup>a</sup>	450	180	59	ug/kg SW846 8270D
		Indeno(1,2,3-cd)pyrene <sup>a</sup>	417	180	62	ug/kg SW846 8270D
		2-Methylnaphthalene <sup>a</sup>	2100	360	100	ug/kg SW846 8270D
		Naphthalene <sup>a</sup>	729	180	49	ug/kg SW846 8270D
		Phenanthrene <sup>a</sup>	2260	180	82	ug/kg SW846 8270D
		Pyrene <sup>a</sup>	2060	180	69	ug/kg SW846 8270D
		Total TIC, Semi-Volatile	85600 J			ug/kg
		Aroclor 1242	1870	39	12	ug/kg SW846 8082A
		Aroclor 1260	594	39	13	ug/kg SW846 8082A
		Antimony	4.1	2.4		mg/kg SW846 6010C
		Arsenic	11.7	2.4		mg/kg SW846 6010C
		Beryllium	0.78	0.24		mg/kg SW846 6010C

## Summary of Hits

**Job Number:** JB27829  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 02/01/13



Lab Sample ID	Client Sample ID	Result/ Analyte	Qual	RL	MDL	Units	Method
		Cadmium	2.3	0.59		mg/kg	SW846 6010C
		Chromium	95.1	1.2		mg/kg	SW846 6010C
		Copper	324	2.9		mg/kg	SW846 6010C
		Lead	609	2.4		mg/kg	SW846 6010C
		Mercury	0.89	0.038		mg/kg	SW846 7471B
		Nickel	51.8	4.7		mg/kg	SW846 6010C
		Silver	1.5	0.59		mg/kg	SW846 6010C
		Zinc	1450	2.4		mg/kg	SW846 6010C

**JB27829-2      TP9-4.0**

Acetone	57.3	9.5	1.6	ug/kg	SW846 8260B
Benzene	0.23 J	0.95	0.11	ug/kg	SW846 8260B
2-Butanone (MEK)	8.6 J	9.5	2.3	ug/kg	SW846 8260B
Carbon disulfide	0.29 J	4.7	0.11	ug/kg	SW846 8260B
Acenaphthene	37.7	36	11	ug/kg	SW846 8270D
Acenaphthylene	64.8	36	12	ug/kg	SW846 8270D
Anthracene	146	36	13	ug/kg	SW846 8270D
Benzo(a)anthracene	546	36	12	ug/kg	SW846 8270D
Benzo(a)pyrene	575	36	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene	727	36	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	423	36	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	253	36	14	ug/kg	SW846 8270D
Carbazole	56.6 J	73	17	ug/kg	SW846 8270D
Chrysene	628	36	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	119	36	12	ug/kg	SW846 8270D
Dibenzofuran	22.5 J	73	11	ug/kg	SW846 8270D
Dimethyl phthalate	204	73	13	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	228	73	32	ug/kg	SW846 8270D
Fluoranthene	1170	36	16	ug/kg	SW846 8270D
Fluorene	34.9 J	36	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	356	36	13	ug/kg	SW846 8270D
2-Methylnaphthalene	21.7 J	73	20	ug/kg	SW846 8270D
Naphthalene	21.9 J	36	9.9	ug/kg	SW846 8270D
Phenanthrene	484	36	17	ug/kg	SW846 8270D
Pyrene	976	36	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	5220 J			ug/kg	
Aroclor 1254	1440	36	17	ug/kg	SW846 8082A
Aroclor 1260	1180	36	12	ug/kg	SW846 8082A
Arsenic	7.7	2.3		mg/kg	SW846 6010C
Beryllium	0.79	0.23		mg/kg	SW846 6010C
Cadmium	0.84	0.56		mg/kg	SW846 6010C
Chromium	37.3	1.1		mg/kg	SW846 6010C
Copper	96.1	2.8		mg/kg	SW846 6010C
Lead	430	2.3		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB27829  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 02/01/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Mercury		0.36	0.033		mg/kg	SW846 7471B
Nickel		49.2	4.5		mg/kg	SW846 6010C
Silver		0.72	0.56		mg/kg	SW846 6010C
Zinc		337	2.3		mg/kg	SW846 6010C
<b>JB27829-3 TP11-4.5</b>						
Acenaphthene		285	35	10	ug/kg	SW846 8270D
Acenaphthylene		178	35	11	ug/kg	SW846 8270D
Anthracene		954	35	12	ug/kg	SW846 8270D
Benzo(a)anthracene		3440	35	11	ug/kg	SW846 8270D
Benzo(a)pyrene		4010	170	53	ug/kg	SW846 8270D
Benzo(b)fluoranthene		4610	170	58	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		2520	35	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		1800	170	65	ug/kg	SW846 8270D
1,1'-Biphenyl		34.6 J	69	4.0	ug/kg	SW846 8270D
Carbazole		144	69	16	ug/kg	SW846 8270D
Chrysene		3340	35	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		725	35	12	ug/kg	SW846 8270D
Dibenzofuran		215	69	10	ug/kg	SW846 8270D
Dimethyl phthalate		40.3 J	69	12	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		248	69	31	ug/kg	SW846 8270D
Fluoranthene		8100	170	76	ug/kg	SW846 8270D
Fluorene		343	35	11	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		2400	35	12	ug/kg	SW846 8270D
2-Methylnaphthalene		107	69	19	ug/kg	SW846 8270D
Naphthalene		60.6	35	9.5	ug/kg	SW846 8270D
Phenanthrene		2150	35	16	ug/kg	SW846 8270D
Pyrene		6730	170	66	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		18680 J			ug/kg	
Aroclor 1254		957	35	17	ug/kg	SW846 8082A
Arsenic		6.7	2.2		mg/kg	SW846 6010C
Beryllium		0.51	0.22		mg/kg	SW846 6010C
Chromium		31.6	1.1		mg/kg	SW846 6010C
Copper		64.3	2.7		mg/kg	SW846 6010C
Lead		133	2.2		mg/kg	SW846 6010C
Mercury		0.64	0.032		mg/kg	SW846 7471B
Nickel		26.3	4.3		mg/kg	SW846 6010C
Silver		0.93	0.54		mg/kg	SW846 6010C
Zinc		190	2.2		mg/kg	SW846 6010C

(a) Dilution required due to matrix interference.



Sample Results

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Report of Analysis

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### Report of Analysis

<b>Client Sample ID:</b> TP8-4.0		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133129.D	1	02/06/13	MS	n/a	n/a	VX5772
Run #2							

Run #	Initial Weight
Run #1	6.3 g
Run #2	

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	26.6	9.3	1.6	ug/kg	
71-43-2	Benzene	ND	0.93	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.098	ug/kg	
75-25-2	Bromoform	ND	4.7	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.3	2.2	ug/kg	
75-15-0	Carbon disulfide	0.73	4.7	0.11	ug/kg	J
56-23-5	Carbon tetrachloride	ND	4.7	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.21	ug/kg	
67-66-3	Chloroform	ND	4.7	0.077	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.17	ug/kg	
110-82-7	Cyclohexane	ND	4.7	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.3	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.93	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	3.7	4.7	0.18	ug/kg	J
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	0.21	ug/kg	
75-34-3	1,1-Dichloroethane	2.5	4.7	0.13	ug/kg	J
107-06-2	1,2-Dichloroethane	ND	0.93	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.7	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	3.6	4.7	0.17	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	4.7	0.22	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.14	ug/kg	
123-91-1	1,4-Dioxane	ND	120	56	ug/kg	
100-41-4	Ethylbenzene	1.4	0.93	0.25	ug/kg	
76-13-1	Freon 113	ND	4.7	0.40	ug/kg	

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

## Report of Analysis

<b>Client Sample ID:</b> TP8-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

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## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.7	0.58	ug/kg	
98-82-8	Isopropylbenzene	0.24	4.7	0.069	ug/kg	J
79-20-9	Methyl Acetate	ND	4.7	2.4	ug/kg	
108-87-2	Methylcyclohexane	0.24	4.7	0.16	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.93	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	0.70	ug/kg	
75-09-2	Methylene chloride	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.086	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	0.12	ug/kg	
127-18-4	Tetrachloroethene	0.25	4.7	0.16	ug/kg	J
108-88-3	Toluene	ND	0.93	0.098	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.099	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	0.16	ug/kg	
79-01-6	Trichloroethene	1.7	4.7	0.16	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	4.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	0.13	ug/kg	
	m,p-Xylene	0.60	0.93	0.16	ug/kg	J
95-47-6	o-Xylene	0.30	0.93	0.13	ug/kg	J
1330-20-7	Xylene (total)	0.90	0.93	0.13	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
17060-07-0	1,2-Dichloroethane-D4	84%		70-122%
2037-26-5	Toluene-D8	98%		81-127%
460-00-4	4-Bromofluorobenzene	84%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkene	16.03	7.2	ug/kg	J
	alkene	17.90	4.7	ug/kg	J
	Total TIC, Volatile		11.9	ug/kg	J
	Total Alkanes		0	ug/kg	

ND = Not detected    MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

<b>Client Sample ID:</b> TP8-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	3P16933.D	5	02/18/13	KH	02/12/13	OP63506	E3P774
Run #2	3P16944.D	20	02/18/13	KH	02/12/13	OP63506	E3P774

Run #	Initial Weight	Final Volume
Run #1	32.8 g	1.0 ml
Run #2	32.8 g	1.0 ml

**BN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	420	180	52	ug/kg	
208-96-8	Acenaphthylene	ND	180	57	ug/kg	
98-86-2	Acetophenone	ND	900	32	ug/kg	
120-12-7	Anthracene	561	180	63	ug/kg	
1912-24-9	Atrazine	ND	900	35	ug/kg	
56-55-3	Benzo(a)anthracene	907	180	59	ug/kg	
50-32-8	Benzo(a)pyrene	650	180	55	ug/kg	
205-99-2	Benzo(b)fluoranthene	945	180	60	ug/kg	
191-24-2	Benzo(g,h,i)perylene	518	180	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	357	180	68	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	65	ug/kg	
85-68-7	Butyl benzyl phthalate	25500 <sup>b</sup>	1400	420	ug/kg	
92-52-4	1,1'-Biphenyl	3610	360	21	ug/kg	
100-52-7	Benzaldehyde	ND	900	41	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	56	ug/kg	
106-47-8	4-Chloroaniline	ND	900	57	ug/kg	
86-74-8	Carbazole	319	360	83	ug/kg	J
105-60-2	Caprolactam	ND	360	57	ug/kg	
218-01-9	Chrysene	1050	180	61	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	73	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	54	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	53	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	54	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	78	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	68	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	900	46	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	158	180	61	ug/kg	J
132-64-9	Dibenzofuran	274	360	53	ug/kg	J
84-74-2	Di-n-butyl phthalate	1890	360	40	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	87	ug/kg	
84-66-2	Diethyl phthalate	218	360	61	ug/kg	J
131-11-3	Dimethyl phthalate	ND	360	63	ug/kg	

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> TP8-4.0		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	3930	360	160	ug/kg	
206-44-0	Fluoranthene	1880	180	79	ug/kg	
86-73-7	Fluorene	450	180	59	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	59	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	50	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1800	180	ug/kg	
67-72-1	Hexachloroethane	ND	900	50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	417	180	62	ug/kg	
78-59-1	Isophorone	ND	360	48	ug/kg	
91-57-6	2-Methylnaphthalene	2100	360	100	ug/kg	
88-74-4	2-Nitroaniline	ND	900	79	ug/kg	
99-09-2	3-Nitroaniline	ND	900	72	ug/kg	
100-01-6	4-Nitroaniline	ND	900	70	ug/kg	
91-20-3	Naphthalene	729	180	49	ug/kg	
98-95-3	Nitrobenzene	ND	360	52	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	44	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	900	110	ug/kg	
85-01-8	Phenanthrene	2260	180	82	ug/kg	
129-00-0	Pyrene	2060	180	69	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	900	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%	33%	21-122%
321-60-8	2-Fluorobiphenyl	99%	90%	30-117%
1718-51-0	Terphenyl-d14	102%	105%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.22	11000	ug/kg	J
	system artifact	3.60	2600	ug/kg	J
493-02-7	Naphthalene, decahydro-, trans-C4 alkyl benzene	4.24	2800	ug/kg	JN
	alkane	4.47	2500	ug/kg	J
	alkane	4.59	4600	ug/kg	J
85-44-9	Phthalic anhydride	6.75	3000	ug/kg	JN
	unknown	7.00	7500	ug/kg	J
	unknown	7.06	25000	ug/kg	J
	Naphthalene trimethyl	8.61	2400	ug/kg	J
	Cyclohexane alkyl	8.70	2900	ug/kg	J
	alkane	9.82	4400	ug/kg	J

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP8-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

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**BN TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	11.69	5000	ug/kg	JN
	unknown	12.61	3700	ug/kg	J
	unknown acid	12.80	12000	ug/kg	J
	unknown	12.85	2800	ug/kg	J
	alkane	14.26	3000	ug/kg	J
	unknown	14.76	4000	ug/kg	J
	Total TIC, Semi-Volatile		85600	ug/kg	J

- (a) Dilution required due to matrix interference.
- (b) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

<b>Client Sample ID:</b> TP8-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF117311.D	1	02/06/13	HQ	02/05/13	OP63344	GEF4677
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	23	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	1870	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	594	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	11	ug/kg	
37324-23-5	Aroclor 1262	ND	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		22-141%
877-09-8	Tetrachloro-m-xylene	58%		22-141%
2051-24-3	Decachlorobiphenyl	74%		18-163%
2051-24-3	Decachlorobiphenyl	42%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.1  
**4**

## Report of Analysis

<b>Client Sample ID:</b> TP8-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Project:</b> Anderson Phase II	

4.1  
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**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	4.1	2.4	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	11.7	2.4	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.78	0.24	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	2.3	0.59	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	95.1	1.2	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	324	2.9	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	609	2.4	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.89	0.038	mg/kg	1	02/05/13	02/05/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	51.8	4.7	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.4	2.4	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	1.5	0.59	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.2	1.2	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	1450	2.4	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30413
- (2) Instrument QC Batch: MA30429
- (3) Prep QC Batch: MP69609
- (4) Prep QC Batch: MP69616

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> TP8-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-1	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.9
<b>Project:</b> Anderson Phase II	

4.1  
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### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.27	0.27	mg/kg	1	02/05/13 16:43	NP	SW846 9012 M/LACHAT
Solids, Percent	84.9		%	1	02/08/13 14:00	BM	SM2540 G-97

RL = Reporting Limit

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## Report of Analysis

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<b>Client Sample ID:</b> TP9-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.9
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133130.D	1	02/06/13	MS	n/a	n/a	VX5772
Run #2							

Run #	Initial Weight
Run #1	6.0 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	57.3	9.5	1.6	ug/kg	
71-43-2	Benzene	0.23	0.95	0.11	ug/kg	J
74-97-5	Bromochloromethane	ND	4.7	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.10	ug/kg	
75-25-2	Bromoform	ND	4.7	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	8.6	9.5	2.3	ug/kg	J
75-15-0	Carbon disulfide	0.29	4.7	0.11	ug/kg	J
56-23-5	Carbon tetrachloride	ND	4.7	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.22	ug/kg	
67-66-3	Chloroform	ND	4.7	0.078	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.18	ug/kg	
110-82-7	Cyclohexane	ND	4.7	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.5	0.84	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.95	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	0.22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.95	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.7	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.7	0.17	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.7	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	56	ug/kg	
100-41-4	Ethylbenzene	ND	0.95	0.25	ug/kg	
76-13-1	Freon 113	ND	4.7	0.41	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP9-4.0		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

4.2  
4

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.7	0.59	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	0.070	ug/kg	
79-20-9	Methyl Acetate	ND	4.7	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	4.7	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.95	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	0.71	ug/kg	
75-09-2	Methylene chloride	ND	4.7	1.2	ug/kg	
100-42-5	Styrene	ND	4.7	0.087	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	4.7	0.16	ug/kg	
108-88-3	Toluene	ND	0.95	0.10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.10	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.7	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	0.14	ug/kg	
	m,p-Xylene	ND	0.95	0.16	ug/kg	
95-47-6	o-Xylene	ND	0.95	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	0.95	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
17060-07-0	1,2-Dichloroethane-D4	88%		70-122%
2037-26-5	Toluene-D8	97%		81-127%
460-00-4	4-Bromofluorobenzene	91%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b> TP9-4.0		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P16872.D	1	02/15/13	KH	02/12/13	OP63506	E3P772
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	37.7	36	11	ug/kg	
208-96-8	Acenaphthylene	64.8	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
120-12-7	Anthracene	146	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.2	ug/kg	
56-55-3	Benzo(a)anthracene	546	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	575	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	727	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	423	36	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	253	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	73	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	73	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	56.6	73	17	ug/kg	J
105-60-2	Caprolactam	ND	73	11	ug/kg	
218-01-9	Chrysene	628	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	73	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	73	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	73	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	73	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	119	36	12	ug/kg	
132-64-9	Dibenzofuran	22.5	73	11	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	73	8.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	18	ug/kg	
84-66-2	Diethyl phthalate	ND	73	12	ug/kg	
131-11-3	Dimethyl phthalate	204	73	13	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP9-4.0		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.9
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	228	73	32	ug/kg	
206-44-0	Fluoranthene	1170	36	16	ug/kg	
86-73-7	Fluorene	34.9	36	12	ug/kg	J
118-74-1	Hexachlorobenzene	ND	73	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	356	36	13	ug/kg	
78-59-1	Isophorone	ND	73	9.8	ug/kg	
91-57-6	2-Methylnaphthalene	21.7	73	20	ug/kg	J
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	15	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	21.9	36	9.9	ug/kg	J
98-95-3	Nitrobenzene	ND	73	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	8.9	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	484	36	17	ug/kg	
129-00-0	Pyrene	976	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		21-122%
321-60-8	2-Fluorobiphenyl	77%		30-117%
1718-51-0	Terphenyl-d14	87%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.44	420	ug/kg	J
	system artifact	1.93	220	ug/kg	J
	system artifact	2.07	260	ug/kg	J
	system artifact	2.24	8300	ug/kg	J
	C3 alkyl benzene	2.92	410	ug/kg	J
	unknown	3.03	1300	ug/kg	J
	unknown	3.71	360	ug/kg	J
85-44-9	Phthalic anhydride	6.74	390	ug/kg	JN
57-10-3	n-Hexadecanoic acid	11.61	310	ug/kg	JN
	1,1'-Biphenyl,pentachloro(PCB)	12.31	190	ug/kg	J
	7H-Benz[de]anthracen-one	13.87	190	ug/kg	J

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP9-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.9
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

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4

### BN TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	15.77	380	ug/kg	J
	unknown PAH substance	15.87	360	ug/kg	J
	alkane	16.44	420	ug/kg	J
	unknown	17.12	170	ug/kg	J
	unknown	17.61	200	ug/kg	J
	unknown	17.98	180	ug/kg	J
	Dibenzopyrene	18.72	160	ug/kg	J
	Dibenzopyrene	18.85	200	ug/kg	J
	Total TIC, Semi-Volatile		5220	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

<b>Client Sample ID:</b> TP9-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.9
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF117312.D	1	02/06/13	HQ	02/05/13	OP63344	GEF4677
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	12	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	1440	36	17	ug/kg	
11096-82-5	Aroclor 1260	1180	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		22-141%
877-09-8	Tetrachloro-m-xylene	86%		22-141%
2051-24-3	Decachlorobiphenyl	66%		18-163%
2051-24-3	Decachlorobiphenyl	67%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.2  
**4**

## Report of Analysis

<b>Client Sample ID:</b> TP9-4.0		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.9
<b>Project:</b> Anderson Phase II		

4.2  
4

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	7.7	2.3	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.79	0.23	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	0.84	0.56	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	37.3	1.1	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	96.1	2.8	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	430	2.3	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.36	0.033	mg/kg	1	02/05/13	02/05/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	49.2	4.5	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.3	2.3	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	0.72	0.56	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.1	1.1	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	337	2.3	mg/kg	1	02/05/13	02/06/13 GT	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30413
- (2) Instrument QC Batch: MA30429
- (3) Prep QC Batch: MP69609
- (4) Prep QC Batch: MP69616

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> TP9-4.0	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-2	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.9
<b>Project:</b> Anderson Phase II	

4.2  
4

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.29	0.29	mg/kg	1	02/05/13 16:44	NP	SW846 9012 M/LACHAT
Solids, Percent	87.9		%	1	02/08/13 14:00	BM	SM2540 G-97

RL = Reporting Limit

Accutest Laboratories

## Report of Analysis

Page 1 of 2

<b>Client Sample ID:</b> TP11-4.5		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 91.7
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V132458.D	1	02/11/13	TDN	n/a	n/a	VV5716
Run #2							

Run #	Initial Weight
Run #1	4.4 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.1	ug/kg	
71-43-2	Benzene	ND	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.33	ug/kg	
76-13-1	Freon 113	ND	6.2	0.53	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP11-4.5		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 91.7
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.77	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.092	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.93	ug/kg	
75-09-2	Methylene chloride	ND	6.2	1.6	ug/kg	
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	ND	1.2	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-122%
2037-26-5	Toluene-D8	114%		81-127%
460-00-4	4-Bromofluorobenzene	98%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

Page 1 of 3

<b>Client Sample ID:</b> TP11-4.5	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P16873.D	1	02/15/13	KH	02/12/13	OP63506	E3P772
Run #2	3P16934.D	5	02/18/13	KH	02/12/13	OP63506	E3P774

Run #	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2	31.5 g	1.0 ml

**BN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	285	35	10	ug/kg	
208-96-8	Acenaphthylene	178	35	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	954	35	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	3440	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	4010 <sup>a</sup>	170	53	ug/kg	
205-99-2	Benzo(b)fluoranthene	4610 <sup>a</sup>	170	58	ug/kg	
191-24-2	Benzo(g,h,i)perylene	2520	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	1800 <sup>a</sup>	170	65	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	34.6	69	4.0	ug/kg	J
100-52-7	Benzaldehyde	ND	170	8.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	144	69	16	ug/kg	
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	3340	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	725	35	12	ug/kg	
132-64-9	Dibenzofuran	215	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	40.3	69	12	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
4

## Report of Analysis

<b>Client Sample ID:</b>	TP11-4.5	<b>Date Sampled:</b>	02/01/13
<b>Lab Sample ID:</b>	JB27829-3	<b>Date Received:</b>	02/01/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.7
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	248	69	31	ug/kg	
206-44-0	Fluoranthene	8100 <sup>a</sup>	170	76	ug/kg	
86-73-7	Fluorene	343	35	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2400	35	12	ug/kg	
78-59-1	Isophorone	ND	69	9.3	ug/kg	
91-57-6	2-Methylnaphthalene	107	69	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	14	ug/kg	
91-20-3	Naphthalene	60.6	35	9.5	ug/kg	
98-95-3	Nitrobenzene	ND	69	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	2150	35	16	ug/kg	
129-00-0	Pyrene	6730 <sup>a</sup>	170	66	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	43%	52%	21-122%
321-60-8	2-Fluorobiphenyl	65%	73%	30-117%
1718-51-0	Terphenyl-d14	69%	82%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.24	7000	ug/kg	J
	system artifact	3.02	840	ug/kg	J
	unknown	6.25	980	ug/kg	J
	alkane	7.42	1100	ug/kg	J
	unknown	7.73	730	ug/kg	J
	Naphthalene trimethyl	8.73	760	ug/kg	J
	alkane	9.42	1800	ug/kg	J
	unknown	9.54	770	ug/kg	J
	unknown	9.69	880	ug/kg	J
	alkane	9.85	4400	ug/kg	J
	Dimethylbiphenyl	9.99	1000	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP11-4.5	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

4.3  
4

**BN TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
132-65-0	Dibenzothiophene	10.37	860	ug/kg	JN
	unknown PAH substance	15.69	840	ug/kg	J
	unknown PAH substance	15.88	2100	ug/kg	J
	unknown PAH substance	17.50	760	ug/kg	J
	Dibenzopyrene	18.73	930	ug/kg	J
	Dibenzopyrene	18.85	770	ug/kg	J
	Total TIC, Semi-Volatile		18680	ug/kg	J

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

<b>Client Sample ID:</b> TP11-4.5	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.7
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF117313.D	1	02/06/13	HQ	02/05/13	OP63344	GEF4677
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	957	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		22-141%
877-09-8	Tetrachloro-m-xylene	76%		22-141%
2051-24-3	Decachlorobiphenyl	160%		18-163%
2051-24-3	Decachlorobiphenyl	107%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
4

## Report of Analysis

<b>Client Sample ID:</b> TP11-4.5		<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3		<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 91.7
<b>Project:</b> Anderson Phase II		

4.3  
4

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	6.7	2.2	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.51	0.22	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.54	0.54	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	31.6	1.1	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	64.3	2.7	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	133	2.2	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.64	0.032	mg/kg	1	02/05/13	02/05/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	26.3	4.3	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.2	2.2	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	0.93	0.54	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.1	1.1	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	190	2.2	mg/kg	1	02/05/13	02/06/13	GT SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30413
- (2) Instrument QC Batch: MA30429
- (3) Prep QC Batch: MP69609
- (4) Prep QC Batch: MP69616

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RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> TP11-4.5	<b>Date Sampled:</b> 02/01/13
<b>Lab Sample ID:</b> JB27829-3	<b>Date Received:</b> 02/01/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.7
<b>Project:</b> Anderson Phase II	

4.3  
4

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.28	0.28	mg/kg	1	02/05/13 16:45	NP	SW846 9012 M/LACHAT
Solids, Percent	91.7		%	1	02/08/13 14:00	BM	SM2540 G-97

RL = Reporting Limit

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

5LL



# CHAIN OF CUSTODY

PAGE    OF   

SWISWALL © KSM PARTNERS.COM

2235 Route 130, Dayton, NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.acctest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # <b>JB27829</b>

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name <b>KFAING ENVIRONMENTAL</b>		Project Name <b>ANDERSON PHASE II</b>				VO + 10 BN + 15 PPL METALS PCBs CHANOL										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid W/P - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address <b>835 SPRINGDALE DR ST 200</b>		Street															
City State Zip <b>EXTON PA 19341</b>		Billing Information (if different from Report to)															
Project Contact <b>STUART WISWALL</b>		Project # <b>7311</b>															
Phone # <b>484 459-0815</b>		Client Purchase Order #															
Sampler(s) Name(s) <b>J.S. WISWALL</b>		Project Manager				LAB USE ONLY											
Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vol #	Date	Time	Sampled by	Matrix	# of bottles	PCl	NiOH	HMDS	HEXCA	NONE	DI Water	MEOH	ENCLOSURE	LAB USE ONLY	
-1	TP 8-4.0	6041	2/1/13	1000	JSL	S	7						1	2	1	X X X X X	
-2	TP 9-4.0	6042	2/1/13	1200	JSL	S	4						1	2	1	X X X X X	UTC 42
-3	TP 11-4.5	6047	2/1/13	1550	JSL	S	4						1	2	1	X X X X Y	1406 4014

5.1  
5

Turnaround Time (Business days)		Data Deliverable Information				Comments / Special Instructions										
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> other _____ <small>Emergency &amp; Rush T/A data available VIA Lablink</small>		Approved By (Accutest PM): / Date: _____ <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only          Commercial "B" = Results + QC Summary          NJ Reduced = Results + QC Summary + Partial Raw data</small>				<b>D.I. slurry voc vials frozen storage</b> Date: <u>2/1/13</u> Time: <u>19:44</u> Initials: <u>col</u>  <b>Field Kits Received</b>										
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by Sampler: <u>J.S. Wiswall</u>		Date Time: <u>2/1/13 1650</u>		Received By: <u>JPS</u>		Date Time: <u>1800</u>		Relinquished By: <u>JPS</u>		Date Time: <u>2/1/13</u>		Received By: <u>[Signature]</u>				
Relinquished by Sampler: _____		Date Time: _____		Received By: _____		Date Time: _____		Relinquished By: _____		Date Time: _____		Received By: _____				
Relinquished by: <u>5</u>		Date Time: _____		Received By: _____		Date Time: _____		Custody Seal # _____		<input type="checkbox"/> Intact    Preserved where applicable <input type="checkbox"/> Not intact		On Ice <input type="checkbox"/>		Cooler Temp: <u>1.8</u>		

LA

col



# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB27829 Client: \_\_\_\_\_ Project: \_\_\_\_\_

Date / Time Received: 2/1/2013 Delivery Method: \_\_\_\_\_ Airbill #'s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (1.8/1.8); 0

<b>Cooler Security</b>	<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<b>Cooler Temperature</b>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

<b>Quality Control Preservation</b>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Sample Integrity - Documentation</b>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Sample Integrity - Condition</b>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact		

<b>Sample Integrity - Instructions</b>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories  
V: 732.329.0200

2235 US Highway 130  
F: 732.329.3499

Dayton, New Jersey  
www.accutest.com

5.1  
5

Technical Report for

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KEM Partners, Inc.

Anderson Phase II

7311

Accutest Job Number: JB27970

Sampling Date: 02/04/13

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Report to:

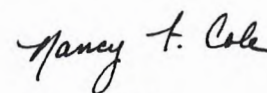
KEM Partners, Inc.  
835 Springdale Drive Suite 200  
Exton, PA 19341  
SWiswall@KemPartners.com

ATTN: Stuart Wiswall

Total number of pages in report: **544**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Nancy F. Cole".

Nancy Cole  
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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### Sample Summary

KEM Partners, Inc.

Job No: JB27970

Anderson Phase II  
Project No: 7311

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB27970-1	02/04/13	09:30 JW	02/04/13	SO	Soil	TP12-8.0
JB27970-2	02/04/13	11:50 JW	02/04/13	SO	Soil	TP14-5.0
JB27970-3	02/04/13	14:52 JW	02/04/13	SO	Soil	TP16-7.5

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** KEM Partners, Inc.

**Job No** JB27970

**Site:** Anderson Phase II

**Report Date** 2/22/2013 1:08:01 PM

On 02/04/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB27970 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO

**Batch ID:** VA7209

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB28334-11MS, JB28334-11MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** SO

**Batch ID:** VE8788

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28538-22MS, JB28538-22MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Methylcyclohexane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Methylcyclohexane are outside control limits. Outside control limits due to matrix interference.
- JB27970-1: Dilution required due to matrix interference.

### Extractables by GCMS By Method SW846 8270D

**Matrix:** SO

**Batch ID:** OP63536

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28392-1MS, JB28392-1MSD were used as the QC samples indicated.

### Extractables by GC By Method SW846 8082A

**Matrix:** SO

**Batch ID:** OP63456

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28050-1MS, JB28050-1MSD were used as the QC samples indicated.
- Sample(s) JB27970-2, JB27970-3 have surrogates outside control limits.
- JB27970-2 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JB27970-2 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB27970-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.



## Summary of Hits

**Job Number:** JB27970  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 02/04/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**JB27970-1 TP12-8.0**

Ethylbenzene <sup>a</sup>	66.7 J	140	38	ug/kg	SW846 8260B
Isopropylbenzene <sup>a</sup>	42.0 J	720	11	ug/kg	SW846 8260B
Toluene <sup>a</sup>	51.1 J	140	15	ug/kg	SW846 8260B
m,p-Xylene <sup>a</sup>	89.4 J	140	25	ug/kg	SW846 8260B
Xylene (total) <sup>a</sup>	89.4 J	140	20	ug/kg	SW846 8260B
Total TIC, Volatile	113100 J			ug/kg	
Acenaphthene	691	39	11	ug/kg	SW846 8270D
Anthracene	263	39	14	ug/kg	SW846 8270D
Benzo(a)anthracene	188	39	13	ug/kg	SW846 8270D
Benzo(a)pyrene	126	39	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene	118	39	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	67.4	39	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	105	39	15	ug/kg	SW846 8270D
Chrysene	196	39	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	28.8 J	39	13	ug/kg	SW846 8270D
Dibenzofuran	776	77	11	ug/kg	SW846 8270D
Fluoranthene	654	39	17	ug/kg	SW846 8270D
Fluorene	1810	39	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	68.3	39	13	ug/kg	SW846 8270D
2-Methylnaphthalene	374	77	22	ug/kg	SW846 8270D
Naphthalene	126	39	11	ug/kg	SW846 8270D
Phenanthrene	419	39	18	ug/kg	SW846 8270D
Pyrene	549	39	15	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	86800 J			ug/kg	
Aroclor 1248	81.8	45	14	ug/kg	SW846 8082A
Arsenic	5.7	2.9		mg/kg	SW846 6010C
Beryllium	0.71	0.29		mg/kg	SW846 6010C
Chromium	44.4	1.4		mg/kg	SW846 6010C
Copper	43.2	3.6		mg/kg	SW846 6010C
Lead	122	2.9		mg/kg	SW846 6010C
Mercury	0.34	0.040		mg/kg	SW846 7471B
Nickel	22.0	5.7		mg/kg	SW846 6010C
Zinc	93.0	2.9		mg/kg	SW846 6010C

**JB27970-2 TP14-5.0**

Acetone	47.1	11	1.9	ug/kg	SW846 8260B
Benzene	5.4	1.1	0.13	ug/kg	SW846 8260B
Carbon disulfide	0.59 J	5.6	0.13	ug/kg	SW846 8260B
Toluene	0.59 J	1.1	0.12	ug/kg	SW846 8260B
Acenaphthene	1420	37	11	ug/kg	SW846 8270D
Anthracene	1700	37	13	ug/kg	SW846 8270D
Benzo(a)anthracene	2120	190	60	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB27970  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 02/04/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method	
		Benzo(a)pyrene	1960	37	11	ug/kg	SW846 8270D
		Benzo(b)fluoranthene	3080	190	62	ug/kg	SW846 8270D
		Benzo(g,h,i)perylene	1290	37	14	ug/kg	SW846 8270D
		Benzo(k)fluoranthene	1160	190	70	ug/kg	SW846 8270D
		Butyl benzyl phthalate	636	74	21	ug/kg	SW846 8270D
		1,1'-Biphenyl	172	74	4.3	ug/kg	SW846 8270D
		Chrysene	3040	190	63	ug/kg	SW846 8270D
		Dibenzo(a,h)anthracene	429	37	13	ug/kg	SW846 8270D
		Dibenzofuran	485	74	11	ug/kg	SW846 8270D
		Di-n-butyl phthalate	3730	370	41	ug/kg	SW846 8270D
		Di-n-octyl phthalate	471	74	18	ug/kg	SW846 8270D
		bis(2-Ethylhexyl)phthalate	8750	370	160	ug/kg	SW846 8270D
		Fluoranthene	3900	190	82	ug/kg	SW846 8270D
		Fluorene	1760	37	12	ug/kg	SW846 8270D
		Indeno(1,2,3-cd)pyrene	1140	37	13	ug/kg	SW846 8270D
		2-Methylnaphthalene	887	74	21	ug/kg	SW846 8270D
		Naphthalene	862	37	10	ug/kg	SW846 8270D
		Phenanthrene	3100	37	17	ug/kg	SW846 8270D
		Pyrene	4360	190	71	ug/kg	SW846 8270D
		Total TIC, Semi-Volatile	79400 J			ug/kg	
		Aroclor 1248	17700	820	250	ug/kg	SW846 8082A
		Aroclor 1254	14200	820	380	ug/kg	SW846 8082A
		Aroclor 1260	4170	820	270	ug/kg	SW846 8082A
		Antimony	650	2.5		mg/kg	SW846 6010C
		Arsenic	258	2.5		mg/kg	SW846 6010C
		Beryllium	3.1	0.25		mg/kg	SW846 6010C
		Cadmium	20.7	0.62		mg/kg	SW846 6010C
		Chromium <sup>b</sup>	209	2.5		mg/kg	SW846 6010C
		Copper	6810	31		mg/kg	SW846 6010C
		Lead	31700	25		mg/kg	SW846 6010C
		Mercury	3.3	0.20		mg/kg	SW846 7471B
		Nickel	1310	5.0		mg/kg	SW846 6010C
		Silver	2.2	0.62		mg/kg	SW846 6010C
		Zinc	3460	2.5		mg/kg	SW846 6010C
		Cyanide	0.56	0.28		mg/kg	SW846 9012 M/LACHAT
<b>JB27970-3</b>	<b>TP16-7.5</b>						
		Acetone	82.7	12	2.1	ug/kg	SW846 8260B
		Carbon disulfide	0.63 J	6.2	0.14	ug/kg	SW846 8260B
		Acenaphthene	386	42	12	ug/kg	SW846 8270D
		Acenaphthylene	130	42	13	ug/kg	SW846 8270D
		Anthracene	1020	42	15	ug/kg	SW846 8270D
		Benzo(a)anthracene	2380	42	14	ug/kg	SW846 8270D
		Benzo(a)pyrene	1990	42	13	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB27970  
**Account:** KEM Partners, Inc.  
**Project:** Anderson Phase II  
**Collected:** 02/04/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(b)fluoranthene		1890	42	14	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		1170	42	15	ug/kg	SW846 8270D
Benzo(k)fluoranthene		1510	42	16	ug/kg	SW846 8270D
1,1'-Biphenyl		33.8 J	83	4.8	ug/kg	SW846 8270D
Carbazole		496	83	19	ug/kg	SW846 8270D
Chrysene		2790	42	14	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		484	42	14	ug/kg	SW846 8270D
Dibenzofuran		271	83	12	ug/kg	SW846 8270D
Dimethyl phthalate		62.8 J	83	15	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		160	83	37	ug/kg	SW846 8270D
Fluoranthene		4110	42	18	ug/kg	SW846 8270D
Fluorene		466	42	14	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		1170	42	14	ug/kg	SW846 8270D
2-Methylnaphthalene		103	83	23	ug/kg	SW846 8270D
Naphthalene		119	42	11	ug/kg	SW846 8270D
Phenanthrene		4770	83	38	ug/kg	SW846 8270D
Pyrene		4030	42	16	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		8470 J			ug/kg	
Antimony		6.0	2.6		mg/kg	SW846 6010C
Arsenic		20.0	2.6		mg/kg	SW846 6010C
Beryllium		0.90	0.26		mg/kg	SW846 6010C
Cadmium		1.8	0.65		mg/kg	SW846 6010C
Chromium		40.5	1.3		mg/kg	SW846 6010C
Copper		113	3.3		mg/kg	SW846 6010C
Lead		1210	2.6		mg/kg	SW846 6010C
Mercury		0.58	0.044		mg/kg	SW846 7471B
Nickel		24.1	5.2		mg/kg	SW846 6010C
Zinc		552	2.6		mg/kg	SW846 6010C
Cyanide		0.38	0.31		mg/kg	SW846 9012 M/LACHAT

(a) Dilution required due to matrix interference.

(b) Elevated detection limit due to dilution required for high interfering element.

Sample Results

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Report of Analysis

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Accutest Laboratories

## Report of Analysis

Page 1 of 3

<b>Client Sample ID:</b> TP12-8.0		<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1		<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	E199939.D	1	02/14/13	OTR	n/a	n/a	VE8788
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.5 g	10.0 ml	100 ul
Run #2			

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1400	240	ug/kg	
71-43-2	Benzene	ND	140	17	ug/kg	
74-97-5	Bromochloromethane	ND	720	38	ug/kg	
75-27-4	Bromodichloromethane	ND	720	15	ug/kg	
75-25-2	Bromoform	ND	720	22	ug/kg	
74-83-9	Bromomethane	ND	720	39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1400	340	ug/kg	
75-15-0	Carbon disulfide	ND	720	17	ug/kg	
56-23-5	Carbon tetrachloride	ND	720	19	ug/kg	
108-90-7	Chlorobenzene	ND	720	15	ug/kg	
75-00-3	Chloroethane	ND	720	32	ug/kg	
67-66-3	Chloroform	ND	720	12	ug/kg	
74-87-3	Chloromethane	ND	720	27	ug/kg	
110-82-7	Cyclohexane	ND	720	18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1400	130	ug/kg	
124-48-1	Dibromochloromethane	ND	720	23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	140	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	720	27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	720	27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	720	25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	720	33	ug/kg	
75-34-3	1,1-Dichloroethane	ND	720	20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	720	37	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	720	26	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	720	34	ug/kg	
78-87-5	1,2-Dichloropropane	ND	720	22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	720	20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	720	22	ug/kg	
123-91-1	1,4-Dioxane	ND	18000	8500	ug/kg	
100-41-4	Ethylbenzene	66.7	140	38	ug/kg	J
76-13-1	Freon 113	ND	720	62	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

### Report of Analysis

<b>Client Sample ID:</b> TP12-8.0		<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1		<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

4.1  
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**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	720	89	ug/kg	
98-82-8	Isopropylbenzene	42.0	720	11	ug/kg	J
79-20-9	Methyl Acetate	ND	720	370	ug/kg	
108-87-2	Methylcyclohexane	ND	720	24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	140	34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	720	110	ug/kg	
75-09-2	Methylene chloride	ND	720	180	ug/kg	
100-42-5	Styrene	ND	720	13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	720	19	ug/kg	
127-18-4	Tetrachloroethene	ND	720	25	ug/kg	
108-88-3	Toluene	51.1	140	15	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	720	23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	720	20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	720	15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	720	25	ug/kg	
79-01-6	Trichloroethene	ND	720	25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	720	43	ug/kg	
75-01-4	Vinyl chloride	ND	720	21	ug/kg	
	m,p-Xylene	89.4	140	25	ug/kg	J
95-47-6	o-Xylene	ND	140	20	ug/kg	
1330-20-7	Xylene (total)	89.4	140	20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	80%		70-122%
2037-26-5	Toluene-D8	95%		81-127%
460-00-4	4-Bromofluorobenzene	89%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	15.00	4500	ug/kg	J
	alkene	15.64	3900	ug/kg	J
	alkene	15.88	3700	ug/kg	J
	C4 alkyl benzene	16.91	5300	ug/kg	J
	Naphthalene decahydro	17.17	9800	ug/kg	J
	alkene	17.35	8100	ug/kg	J
	Naphthalene decahydro-methyl	17.84	18000	ug/kg	J
	Naphthalene decahydro-methyl	18.09	16000	ug/kg	J
	C5 alkyl benzene	18.78	8000	ug/kg	J

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> TP12-8.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

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### VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene-dihydro-trimethyl	19.10	4600	ug/kg	J
	Naphthalene tetrahydro-methyl	19.32	11000	ug/kg	J
	C6 alkyl benzene	19.72	8400	ug/kg	J
	unknown	20.09	4900	ug/kg	J
	unknown	20.62	3400	ug/kg	J
	unknown	20.87	3500	ug/kg	J
	Total TIC, Volatile		113100	ug/kg	J

(a) Dilution required due to matrix interference.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

<b>Client Sample ID:</b> TP12-8.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M91582.D	1	02/15/13	OYA	02/13/13	OP63536	EM3710
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	691	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.8	ug/kg	
120-12-7	Anthracene	263	39	14	ug/kg	
1912-24-9	Atrazine	ND	190	7.6	ug/kg	
56-55-3	Benzo(a)anthracene	188	39	13	ug/kg	
50-32-8	Benzo(a)pyrene	126	39	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	118	39	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	67.4	39	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	105	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	77	18	ug/kg	
105-60-2	Caprolactam	ND	77	12	ug/kg	
218-01-9	Chrysene	196	39	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	77	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	77	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	28.8	39	13	ug/kg	J
132-64-9	Dibenzofuran	776	77	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	8.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	77	19	ug/kg	
84-66-2	Diethyl phthalate	ND	77	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	14	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> TP12-8.0		<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1		<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	ND	77	34	ug/kg	
206-44-0	Fluoranthene	654	39	17	ug/kg	
86-73-7	Fluorene	1810	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	68.3	39	13	ug/kg	
78-59-1	Isophorone	ND	77	10	ug/kg	
91-57-6	2-Methylnaphthalene	374	77	22	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	126	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	77	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	9.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	419	39	18	ug/kg	
129-00-0	Pyrene	549	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	43%		21-122%
321-60-8	2-Fluorobiphenyl	51%		30-117%
1718-51-0	Terphenyl-d14	59%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	7.89	2700	ug/kg	J
	alkane	9.07	4900	ug/kg	J
	unknown	9.69	5000	ug/kg	J
	Naphthalene dimethyl	9.86	4800	ug/kg	J
	alkane	9.98	5100	ug/kg	J
	Naphthalene trimethyl	10.97	3000	ug/kg	J
	unknown	11.96	5800	ug/kg	J
	unknown	12.17	3800	ug/kg	J
	alkane	12.38	24000	ug/kg	J
	9H-Fluorene methyl	12.43	3400	ug/kg	J
	unknown	12.52	7500	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

### Report of Analysis

<b>Client Sample ID:</b> TP12-8.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

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#### BN TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	12.77	6200	ug/kg	J
	alkane	13.99	4200	ug/kg	J
	unknown	14.67	2800	ug/kg	J
	unknown	15.70	3600	ug/kg	J
	Total TIC, Semi-Volatile		86800	ug/kg	J

ND = Not detected MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

Accutest Laboratories

### Report of Analysis

<b>Client Sample ID:</b> TP12-8.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.0
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX129879.D	1	02/11/13	JR	02/08/13	OP63456	GXX4588
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	45	12	ug/kg	
11104-28-2	Aroclor 1221	ND	45	27	ug/kg	
11141-16-5	Aroclor 1232	ND	45	23	ug/kg	
53469-21-9	Aroclor 1242	ND	45	14	ug/kg	
12672-29-6	Aroclor 1248	81.8	45	14	ug/kg	
11097-69-1	Aroclor 1254	ND	45	21	ug/kg	
11096-82-5	Aroclor 1260	ND	45	15	ug/kg	
11100-14-4	Aroclor 1268	ND	45	13	ug/kg	
37324-23-5	Aroclor 1262	ND	45	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		22-141%
877-09-8	Tetrachloro-m-xylene	80%		22-141%
2051-24-3	Decachlorobiphenyl	80%		18-163%
2051-24-3	Decachlorobiphenyl	97%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> TP12-8.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-1	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.0
<b>Project:</b> Anderson Phase II	

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### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.9	2.9	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	5.7	2.9	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.71	0.29	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.71	0.71	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	44.4	1.4	mg/kg	1	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Copper	43.2	3.6	mg/kg	1	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Lead	122	2.9	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.34	0.040	mg/kg	1	02/11/13	02/13/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>5</sup>
Nickel	22.0	5.7	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.9	2.9	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.71	0.71	mg/kg	1	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.4	1.4	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	93.0	2.9	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA30463
- (2) Instrument QC Batch: MA30472
- (3) Instrument QC Batch: MA30479
- (4) Prep QC Batch: MP69718
- (5) Prep QC Batch: MP69741

RL = Reporting Limit

# Report of Analysis

**Client Sample ID:** TP12-8.0

**Lab Sample ID:** JB27970-1

**Matrix:** SO - Soil

**Project:** Anderson Phase II

**Date Sampled:** 02/04/13

**Date Received:** 02/04/13

**Percent Solids:** 73.0

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## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.29	0.29	mg/kg	1	02/08/13 13:39	NP	SW846 9012 M/LACHAT
Solids, Percent	73		%	1	02/12/13 10:00	BM	SM2540 G-97

RL = Reporting Limit

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### Report of Analysis

<b>Client Sample ID:</b> TP14-5.0		<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2		<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.4
<b>Method:</b> SW846 8260B		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A191575.D	1	02/12/13	OTR	n/a	n/a	VA7209
Run #2							

Run #	Initial Weight
Run #1	5.5 g
Run #2	

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	47.1	11	1.9	ug/kg	
71-43-2	Benzene	5.4	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	0.12	ug/kg	
75-25-2	Bromoform	ND	5.6	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	0.59	5.6	0.13	ug/kg	J
56-23-5	Carbon tetrachloride	ND	5.6	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.25	ug/kg	
67-66-3	Chloroform	ND	5.6	0.092	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.6	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.99	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.6	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.17	ug/kg	
123-91-1	1,4-Dioxane	ND	140	66	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.29	ug/kg	
76-13-1	Freon 113	ND	5.6	0.48	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.2  
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## Report of Analysis

<b>Client Sample ID:</b> TP14-5.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.4
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

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**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.6	0.69	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	0.083	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.9	ug/kg	
108-87-2	Methylcyclohexane	ND	5.6	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	0.84	ug/kg	
75-09-2	Methylene chloride	ND	5.6	1.4	ug/kg	
100-42-5	Styrene	ND	5.6	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	0.19	ug/kg	
108-88-3	Toluene	0.59	1.1	0.12	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.6	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.19	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
17060-07-0	1,2-Dichloroethane-D4	92%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	103%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

### Report of Analysis

<b>Client Sample ID:</b> TP14-5.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.4
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M91583.D	1	02/15/13	OYA	02/13/13	OP63536	EM3710
Run #2	M91641.D	5	02/18/13	OYA	02/13/13	OP63536	EM3713

Run #	Initial Weight	Final Volume
Run #1	33.2 g	1.0 ml
Run #2	33.2 g	1.0 ml

**BN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1420	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.5	ug/kg	
120-12-7	Anthracene	1700	37	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	2120 <sup>a</sup>	190	60	ug/kg	
50-32-8	Benzo(a)pyrene	1960	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	3080 <sup>a</sup>	190	62	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1290	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	1160 <sup>a</sup>	190	70	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	636	74	21	ug/kg	
92-52-4	1,1'-Biphenyl	172	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	11	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	3040 <sup>a</sup>	190	63	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	429	37	13	ug/kg	
132-64-9	Dibenzofuran	485	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	3730 <sup>a</sup>	370	41	ug/kg	
117-84-0	Di-n-octyl phthalate	471	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b>	TP14-5.0	<b>Date Sampled:</b>	02/04/13
<b>Lab Sample ID:</b>	JB27970-2	<b>Date Received:</b>	02/04/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	81.4
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Anderson Phase II		

## BN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	8750 <sup>a</sup>	370	160	ug/kg	
206-44-0	Fluoranthene	3900 <sup>a</sup>	190	82	ug/kg	
86-73-7	Fluorene	1760	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1140	37	13	ug/kg	
78-59-1	Isophorone	ND	74	10	ug/kg	
91-57-6	2-Methylnaphthalene	887	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	14	ug/kg	
91-20-3	Naphthalene	862	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	3100	37	17	ug/kg	
129-00-0	Pyrene	4360 <sup>a</sup>	190	71	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	56%	47%	21-122%
321-60-8	2-Fluorobiphenyl	62%	60%	30-117%
1718-51-0	Terphenyl-d14	64%	66%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	4.30	5500	ug/kg	J
	Naphthalene dimethyl	9.64	2700	ug/kg	J
	unknown	9.70	3800	ug/kg	J
	Naphthalene dimethyl	9.86	3500	ug/kg	J
	alkane	9.98	4000	ug/kg	J
	Naphthalene trimethyl	10.98	5300	ug/kg	J
	Naphthalene trimethyl	11.17	3000	ug/kg	J
	unknown	11.48	4800	ug/kg	J
	unknown	11.98	4800	ug/kg	J
	unknown	12.19	3500	ug/kg	J
	alkane	12.39	20000	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP14-5.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.4
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

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**BN TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	12.55	5200	ug/kg	J
	Dimethylbiphenyl	12.80	3800	ug/kg	J
	unknown	20.17	5200	ug/kg	J
	unknown	20.53	4300	ug/kg	J
	Total TIC, Semi-Volatile		79400	ug/kg	J

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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### Report of Analysis

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<b>Client Sample ID:</b> TP14-5.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.4
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX129880.D	1	02/11/13	JR	02/08/13	OP63456	GXX4588
Run #2	XX129944.D	20	02/12/13	JR	02/08/13	OP63456	GXX4589

Run #	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	11	ug/kg	
11104-28-2	Aroclor 1221	ND	41	25	ug/kg	
11141-16-5	Aroclor 1232	ND	41	21	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248	17700 <sup>a</sup>	820	250	ug/kg	
11097-69-1	Aroclor 1254	14200 <sup>a</sup>	820	380	ug/kg	
11096-82-5	Aroclor 1260	4170 <sup>a</sup>	820	270	ug/kg	
11100-14-4	Aroclor 1268	ND	41	12	ug/kg	
37324-23-5	Aroclor 1262	ND	41	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	133%	145% <sup>b</sup>	22-141%
877-09-8	Tetrachloro-m-xylene	67%	60%	22-141%
2051-24-3	Decachlorobiphenyl	108%	144%	18-163%
2051-24-3	Decachlorobiphenyl	270% <sup>b</sup>	215% <sup>b</sup>	18-163%

(a) Result is from Run# 2  
 (b) Outside control limits due to matrix interference.

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> TP14-5.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.4
<b>Project:</b> Anderson Phase II	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	650	2.5	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	258	2.5	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	3.1	0.25	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	20.7	0.62	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium <sup>a</sup>	209	2.5	mg/kg	2	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Copper	6810	31	mg/kg	10	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Lead	31700	25	mg/kg	10	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Mercury	3.3	0.20	mg/kg	5	02/11/13	02/13/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>5</sup>
Nickel	1310	5.0	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium <sup>a</sup>	< 5.0	5.0	mg/kg	2	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Silver	2.2	0.62	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium <sup>a</sup>	< 12	12	mg/kg	10	02/11/13	02/14/13 ND	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Zinc	3460	2.5	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30463

(2) Instrument QC Batch: MA30472

(3) Instrument QC Batch: MA30486

(4) Prep QC Batch: MP69718

(5) Prep QC Batch: MP69741

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> TP14-5.0	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-2	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.4
<b>Project:</b> Anderson Phase II	

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### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.56	0.28	mg/kg	1	02/08/13 13:40	NP	SW846 9012 M/LACHAT
Solids, Percent	81.4		%	1	02/12/13 10:00	BM	SM2540 G-97

RL = Reporting Limit

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### Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.4
<b>Method:</b> SW846 8260B	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A191574.D	1	02/12/13	OTR	n/a	n/a	VA7209
Run #2							

Run #	Initial Weight
Run #1	5.5 g
Run #2	

**VOA TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	82.7	12	2.1	ug/kg	
71-43-2	Benzene	ND	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	0.63	6.2	0.14	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.2	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	150	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.33	ug/kg	
76-13-1	Freon 113	ND	6.2	0.53	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
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## Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	
<b>Lab Sample ID:</b> JB27970-3	<b>Date Sampled:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 73.4
<b>Project:</b> Anderson Phase II	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.77	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.092	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.93	ug/kg	
75-09-2	Methylene chloride	ND	6.2	1.6	ug/kg	
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	ND	1.2	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	104%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

### Report of Analysis

Page 1 of 3

<b>Client Sample ID:</b> TP16-7.5		<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3		<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 73.4
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Anderson Phase II		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M91584.D	1	02/15/13	OYA	02/13/13	OP63536	EM3710
Run #2	M91642.D	2	02/18/13	OYA	02/13/13	OP63536	EM3713

Run #	Initial Weight	Final Volume
Run #1	32.8 g	1.0 ml
Run #2	32.8 g	1.0 ml

**BN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	386	42	12	ug/kg	
208-96-8	Acenaphthylene	130	42	13	ug/kg	
98-86-2	Acetophenone	ND	210	7.3	ug/kg	
120-12-7	Anthracene	1020	42	15	ug/kg	
1912-24-9	Atrazine	ND	210	8.2	ug/kg	
56-55-3	Benzo(a)anthracene	2380	42	14	ug/kg	
50-32-8	Benzo(a)pyrene	1990	42	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	1890	42	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1170	42	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	1510	42	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	83	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	83	24	ug/kg	
92-52-4	1,1'-Biphenyl	33.8	83	4.8	ug/kg	J
100-52-7	Benzaldehyde	ND	210	9.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	83	13	ug/kg	
106-47-8	4-Chloroaniline	ND	210	13	ug/kg	
86-74-8	Carbazole	496	83	19	ug/kg	
105-60-2	Caprolactam	ND	83	13	ug/kg	
218-01-9	Chrysene	2790	42	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	83	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	83	13	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	83	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	83	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	83	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	83	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	484	42	14	ug/kg	
132-64-9	Dibenzofuran	271	83	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	83	9.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	83	20	ug/kg	
84-66-2	Diethyl phthalate	ND	83	14	ug/kg	
131-11-3	Dimethyl phthalate	62.8	83	15	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
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### Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.4
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

4.3  
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**BN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	160	83	37	ug/kg	
206-44-0	Fluoranthene	4110	42	18	ug/kg	
86-73-7	Fluorene	466	42	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	83	14	ug/kg	
87-68-3	Hexachlorobutadiene	ND	42	12	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	420	42	ug/kg	
67-72-1	Hexachloroethane	ND	210	12	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1170	42	14	ug/kg	
78-59-1	Isophorone	ND	83	11	ug/kg	
91-57-6	2-Methylnaphthalene	103	83	23	ug/kg	
88-74-4	2-Nitroaniline	ND	210	18	ug/kg	
99-09-2	3-Nitroaniline	ND	210	17	ug/kg	
100-01-6	4-Nitroaniline	ND	210	16	ug/kg	
91-20-3	Naphthalene	119	42	11	ug/kg	
98-95-3	Nitrobenzene	ND	83	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	83	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	25	ug/kg	
85-01-8	Phenanthrene	4770 <sup>a</sup>	83	38	ug/kg	
129-00-0	Pyrene	4030	42	16	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	40%	45%	21-122%
321-60-8	2-Fluorobiphenyl	47%	52%	30-117%
1718-51-0	Terphenyl-d14	51%	64%	31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.76	1100	ug/kg	J
	system artifact/aldol-condensation	2.81	410	ug/kg	J
	system artifact	3.98	430	ug/kg	J
	unknown	4.48	700	ug/kg	J
486-25-9	9H-Fluoren-9-one	12.82	310	ug/kg	JN
132-65-0	Dibenzothiophene	12.96	420	ug/kg	JN
	Phenanthrene methyl	14.19	440	ug/kg	J
	Phenanthrene methyl	14.25	580	ug/kg	J
	Anthracene methyl	14.33	470	ug/kg	J
	unknown	14.40	780	ug/kg	J
	unknown	14.81	450	ug/kg	J

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.4
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Anderson Phase II	

4.3  
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### BN TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
84-65-1	9,10-Anthracenedione	14.85	390	ug/kg	JN
	Phenanthrene dimethyl	15.31	400	ug/kg	J
	Phenanthrene dimethyl	15.40	1100	ug/kg	J
	Fluoranthene, -methyl-	16.46	340	ug/kg	J
	Chrysene methyl	18.27	280	ug/kg	J
	unknown	18.90	1000	ug/kg	J
	unknown PAH substance	19.36	810	ug/kg	J
	Total TIC, Semi-Volatile		8470	ug/kg	J

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

### Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.4
<b>Method:</b> SW846 8082A SW846 3546	
<b>Project:</b> Anderson Phase II	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX129881.D	1	02/11/13	JR	02/08/13	OP63456	GXX4588
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	45	12	ug/kg	
11104-28-2	Aroclor 1221	ND	45	27	ug/kg	
11141-16-5	Aroclor 1232	ND	45	23	ug/kg	
53469-21-9	Aroclor 1242	ND	45	14	ug/kg	
12672-29-6	Aroclor 1248	ND	45	14	ug/kg	
11097-69-1	Aroclor 1254	ND	45	21	ug/kg	
11096-82-5	Aroclor 1260	ND	45	15	ug/kg	
11100-14-4	Aroclor 1268	ND	45	13	ug/kg	
37324-23-5	Aroclor 1262	ND	45	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		22-141%
877-09-8	Tetrachloro-m-xylene	75%		22-141%
2051-24-3	Decachlorobiphenyl	107%		18-163%
2051-24-3	Decachlorobiphenyl	253% <sup>a</sup>		18-163%

(a) Outside control limits due to matrix interference.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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**4**

## Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.4
<b>Project:</b> Anderson Phase II	

4.3  
4

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	6.0	2.6	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Arsenic	20.0	2.6	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Beryllium	0.90	0.26	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Cadmium	1.8	0.65	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Chromium	40.5	1.3	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Copper	113	3.3	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Lead	1210	2.6	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Mercury	0.58	0.044	mg/kg	1	02/11/13	02/13/13 CS	SW846 7471B <sup>1</sup>	SW846 7471B <sup>4</sup>
Nickel	24.1	5.2	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Selenium	< 2.6	2.6	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.65	0.65	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Thallium	< 1.3	1.3	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Zinc	552	2.6	mg/kg	1	02/11/13	02/13/13 ND	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA30463
- (2) Instrument QC Batch: MA30472
- (3) Prep QC Batch: MP69718
- (4) Prep QC Batch: MP69741

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> TP16-7.5	<b>Date Sampled:</b> 02/04/13
<b>Lab Sample ID:</b> JB27970-3	<b>Date Received:</b> 02/04/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.4
<b>Project:</b> Anderson Phase II	

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### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.38	0.31	mg/kg	1	02/08/13 13:45	NP	SW846 9012 M/LACHAT
Solids, Percent	73.4		%	1	02/12/13 10:00	BM	SM2540 G-97

RL = Reporting Limit

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



3LL

**CHAIN OF CUSTODY**

2335 Route 130, Dayton, NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.accutest.com

FED-EX Tracking #  
Accutest Quote #  
Matrix Order Control #  
Accutest Job # **JB27970**

Client / Reporting Information		Project Information				Requested Analysis ( see TEST CODE sheet)								Matrix Codes				
Company Name <b>KEATING ENVIRONMENTAL</b>		Project Name <b>ANDERSON PHASE II</b>				VOC + 10 BN + 15 PAK METAL PCBs CYANIDE								DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank				
Street Address <b>835 SPRINGDALE DRWC EXTON PA 19341</b>		Street		Billing Information (if different from Report to)														
City State Zip		City State		Company Name														
Project Contact <b>JSWISWAL @KeatingEnv.com</b>		Project # <b>7311</b>		Street Address														
Phone # <b>484 459-0815</b>		Client Purchase Order #		City State Zip														
Sampler(s) Name(s) <b>J.S. WISWAL</b>		Project Manager <b>JSWISWAL</b>		Attention:														
Accutest Sample #	Field ID / Point of Collection	MECH/HAZMAT#	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	PHOX	PHOX	PHOX	PHOX	PHOX	PHOX	PHOX	PHOX	LAB USE ONLY
-1	TP 12 - 8.0	7183 7184	6040	2/14/13	0930	JSW	5	4										
-2	TP 14 - 5.0	7195 7196	6046	2/14/13	1150	JSW	5	4										
-3	TP 16 - 7.5	7197 7198	6044	2/14/13	1452	JSW	5	4										

Turnaround Time ( Business days) \_\_\_\_\_

Data Deliverable Information \_\_\_\_\_

Comments / Special Instructions  
**D.I. slurry voc vials frozen storage**  
Date: 2/4/13 Time: 1930 Initials: (A)

Field Kits Received \_\_\_\_\_

Approved By (Accutest PM) / Date: \_\_\_\_\_

Commercial "A" (Level 1)  Commercial "B" (Level 2)  FULLT1 (Level 3+4)  NJ Reduced  Commercial "C"

Commercial "A" = Results Only  
Commercial "B" = Results + QC Summary  
NJ Reduced = Results + QC Summary + Partial Raw data

Relinquished by: J. Sp... 2/14/13 1646 Received By: [Signature] 1

Relinquished by: [Signature] 2 Date Time: 2/14/13 Received By: [Signature] 2

Relinquished by: [Signature] 3 Received By: [Signature] 3

Relinquished by: [Signature] 4 Received By: [Signature] 4

Relinquished by: [Signature] 5 Received By: [Signature] 5

Custody Seal # \_\_\_\_\_ Intact  Not Intact  Preserved where applicable  On Ice  Cooler Temp. 3.5°C

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# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB27970 Client: \_\_\_\_\_ Project: \_\_\_\_\_

Date / Time Received: 2/4/2013 Delivery Method: \_\_\_\_\_ Airbill #'s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (3.5/3.5); 0

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1  
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## ANALYTICAL REPORT

Eurofins TestAmerica, Edison  
777 New Durham Road  
Edison, NJ 08817  
Tel: (732)549-3900

Laboratory Job ID: 460-228548-1  
Client Project/Site: Beach St

For:  
RT Environmental Services, Inc.  
215 West Church Road  
Suite 300  
King of Prussia, Pennsylvania 19406

Attn: Craig Herr



*Authorized for release by:  
2/24/2021 3:27:53 PM*

Jill Miller, Senior Project Manager  
(484)685-0871  
[Jill.Miller@Eurofinset.com](mailto:Jill.Miller@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

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**Job ID: 460-228548-1**

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**Laboratory: Eurofins TestAmerica, Edison**

## Narrative

**Job Narrative  
460-228548-1**

## Comments

No additional comments.

## Receipt

The samples were received on 2/22/2021 11:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

## GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 460-760619 was outside the method criteria for the following analyte(s): < Pentachlorophenol and Benzaldehyde>. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-101**

**Lab Sample ID: 460-228548-1**

**Date Collected: 02/22/21 08:19**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 94.0**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	13	U	350	13	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2-Chlorophenol	13	U	350	13	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2-Methylphenol	13	U	350	13	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Methylphenol	22	U	350	22	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2-Nitrophenol	35	U	350	35	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,4-Dimethylphenol	15	U	350	15	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,4-Dichlorophenol	23	U	140	23	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Chloro-3-methylphenol	20	U	350	20	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,4,6-Trichlorophenol	45	U	140	45	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,4,5-Trichlorophenol	36	U	350	36	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,4-Dinitrotoluene	38	U	71	38	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Nitrophenol	57	U	710	57	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4,6-Dinitro-2-methylphenol	140	U F1	280	140	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Pentachlorophenol	72	U	280	72	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Bis(2-chloroethyl)ether	12	U	35	12	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
N-Nitrosodi-n-propylamine	26	U	35	26	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Hexachloroethane	12	U	35	12	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Nitrobenzene	8.4	U	35	8.4	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Isophorone	100	U	140	100	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Naphthalene	6.1	U	350	6.1	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Chloroaniline	62	U	350	62	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Hexachlorobutadiene	7.5	U	71	7.5	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2-Methylnaphthalene	9.8	U	350	9.8	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Hexachlorocyclopentadiene	31	U F1	350	31	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2-Chloronaphthalene	16	U	350	16	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2-Nitroaniline	13	U	350	13	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Dimethyl phthalate	80	U	350	80	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Acenaphthylene	3.5	U	350	3.5	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,6-Dinitrotoluene	25	U	71	25	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
3-Nitroaniline	40	U	350	40	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Acenaphthene	10	U	350	10	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Dibenzofuran	4.9	U	350	4.9	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
2,4-Dinitrophenol	170	U F1	280	170	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Diethyl phthalate	5.1	U	350	5.1	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Chlorophenyl phenyl ether	12	U	350	12	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Fluorene	4.8	U	350	4.8	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Nitroaniline	40	U	350	40	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
N-Nitrosodiphenylamine	29	U	350	29	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
4-Bromophenyl phenyl ether	14	U	350	14	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Hexachlorobenzene	17	U	35	17	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Phenanthrene	6.2	U	350	6.2	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Anthracene	11	U	350	11	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Carbazole	13	U	350	13	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Di-n-butyl phthalate	13	U	350	13	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Fluoranthene	12	U	350	12	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Pyrene	8.7	U	350	8.7	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Butyl benzyl phthalate	16	U	350	16	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Benzo[a]anthracene	12	U F1	35	12	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1
Chrysene	5.9	U F1	350	5.9	ug/Kg	✱	02/23/21 18:57	02/24/21 12:53	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-101**

**Lab Sample ID: 460-228548-1**

**Date Collected: 02/22/21 08:19**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 94.0**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	19	U	350	19	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Di-n-octyl phthalate	19	U	350	19	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Benzo[b]fluoranthene	9.1	U	35	9.1	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Benzo[k]fluoranthene	6.9	U	35	6.9	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Benzo[a]pyrene	9.4	U	35	9.4	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Indeno[1,2,3-cd]pyrene	14	U	35	14	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Dibenz(a,h)anthracene	15	U	35	15	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Benzo[g,h,i]perylene	10	U F1	350	10	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Diphenyl	4.7	U	350	4.7	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Acetophenone	17	U	350	17	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Benzaldehyde	58	U	350	58	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Caprolactam	55	U	350	55	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Atrazine	21	U	140	21	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
2,2'-oxybis[1-chloropropane]	6.4	U	350	6.4	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
1,2,4,5-Tetrachlorobenzene	11	U	350	11	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
2,3,4,6-Tetrachlorophenol	24	U	350	24	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
3,3'-Dichlorobenzidine	53	U	140	53	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1
Bis(2-chloroethoxy)methane	27	U	350	27	ug/Kg	☼	02/23/21 18:57	02/24/21 12:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Iron,	2000	J N	ug/Kg	☼	11.09	69815-45-8	02/23/21 18:57	02/24/21 12:53	1
tricarbonyl[(5a,5b,11a,11b-.eta.)-2,3,4,5,6,7,8,9,10,1									
Unknown	1000	J	ug/Kg	☼	11.53		02/23/21 18:57	02/24/21 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		11 - 104	02/23/21 18:57	02/24/21 12:53	1
Phenol-d5	74		15 - 100	02/23/21 18:57	02/24/21 12:53	1
Terphenyl-d14	78		12 - 126	02/23/21 18:57	02/24/21 12:53	1
2,4,6-Tribromophenol	75		10 - 123	02/23/21 18:57	02/24/21 12:53	1
2-Fluorophenol	76		10 - 105	02/23/21 18:57	02/24/21 12:53	1
2-Fluorobiphenyl	77		14 - 103	02/23/21 18:57	02/24/21 12:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.0		1.0	1.0	%			02/23/21 13:23	1
Percent Solids	94.0		1.0	1.0	%			02/23/21 13:23	1

**Client Sample ID: SS-102**

**Lab Sample ID: 460-228548-2**

**Date Collected: 02/22/21 08:16**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 92.6**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2-Chlorophenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2-Methylphenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
4-Methylphenol	22	U	360	22	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2-Nitrophenol	36	U	360	36	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2,4-Dimethylphenol	16	U	360	16	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2,4-Dichlorophenol	23	U	140	23	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1

Eurofins TestAmerica, Edison



# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-102**

**Lab Sample ID: 460-228548-2**

**Date Collected: 02/22/21 08:16**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 92.6**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	20	U	360	20	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2,4,6-Trichlorophenol	46	U	140	46	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2,4,5-Trichlorophenol	36	U	360	36	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2,4-Dinitrotoluene	38	U	72	38	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
4-Nitrophenol	58	U	720	58	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
4,6-Dinitro-2-methylphenol	150	U	290	150	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Pentachlorophenol	73	U	290	73	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Bis(2-chloroethyl)ether	12	U	36	12	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
N-Nitrosodi-n-propylamine	26	U	36	26	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Hexachloroethane	12	U	36	12	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Nitrobenzene	8.6	U	36	8.6	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Isophorone	100	U	140	100	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Naphthalene	6.2	U	360	6.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
4-Chloroaniline	63	U	360	63	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Hexachlorobutadiene	7.6	U	72	7.6	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2-Methylnaphthalene	10	U	360	10	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Hexachlorocyclopentadiene	31	U	360	31	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2-Chloronaphthalene	17	U	360	17	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2-Nitroaniline	13	U	360	13	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Dimethyl phthalate	81	U	360	81	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Acenaphthylene	3.6	U	360	3.6	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2,6-Dinitrotoluene	26	U	72	26	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
3-Nitroaniline	40	U	360	40	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Acenaphthene	10	U	360	10	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Dibenzofuran	5.0	U	360	5.0	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
2,4-Dinitrophenol	180	U	290	180	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Diethyl phthalate	5.2	U	360	5.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
4-Chlorophenyl phenyl ether	13	U	360	13	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Fluorene	4.8	U	360	4.8	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
4-Nitroaniline	41	U	360	41	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
N-Nitrosodiphenylamine	29	U	360	29	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
4-Bromophenyl phenyl ether	14	U	360	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Hexachlorobenzene	17	U	36	17	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Phenanthrene</b>	<b>11</b>	<b>J</b>	360	6.3	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Anthracene	11	U	360	11	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Carbazole	14	U	360	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Di-n-butyl phthalate	13	U	360	13	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Fluoranthene</b>	<b>19</b>	<b>J</b>	360	12	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Pyrene</b>	<b>19</b>	<b>J</b>	360	8.9	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Butyl benzyl phthalate	17	U	360	17	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Benzo[a]anthracene</b>	<b>18</b>	<b>J</b>	36	12	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Chrysene</b>	<b>16</b>	<b>J</b>	360	6.0	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Bis(2-ethylhexyl) phthalate	19	U	360	19	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Di-n-octyl phthalate	19	U	360	19	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Benzo[b]fluoranthene</b>	<b>25</b>	<b>J</b>	36	9.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Benzo[k]fluoranthene</b>	<b>7.1</b>	<b>J</b>	36	7.0	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
<b>Benzo[a]pyrene</b>	<b>17</b>	<b>J</b>	36	9.5	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Indeno[1,2,3-cd]pyrene	14	U	36	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1
Dibenz(a,h)anthracene	15	U	36	15	ug/Kg	✱	02/23/21 18:57	02/24/21 11:02	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-102**

**Date Collected: 02/22/21 08:16**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-2**

**Matrix: Solid**

**Percent Solids: 92.6**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	11	U	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
Diphenyl	4.7	U	360	4.7	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
Acetophenone	18	U	360	18	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
Benzaldehyde	59	U	360	59	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
Caprolactam	56	U	360	56	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
Atrazine	21	U	140	21	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2,2'-oxybis[1-chloropropane]	6.5	U	360	6.5	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
1,2,4,5-Tetrachlorobenzene	11	U	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
2,3,4,6-Tetrachlorophenol	24	U	360	24	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
3,3'-Dichlorobenzidine	54	U	140	54	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1
Bis(2-chloroethoxy)methane	28	U	360	28	ug/Kg	☼	02/23/21 18:57	02/24/21 11:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			02/23/21 18:57	02/24/21 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		11 - 104	02/23/21 18:57	02/24/21 11:02	1
Phenol-d5	77		15 - 100	02/23/21 18:57	02/24/21 11:02	1
Terphenyl-d14	92		12 - 126	02/23/21 18:57	02/24/21 11:02	1
2,4,6-Tribromophenol	65		10 - 123	02/23/21 18:57	02/24/21 11:02	1
2-Fluorophenol	78		10 - 105	02/23/21 18:57	02/24/21 11:02	1
2-Fluorobiphenyl	79		14 - 103	02/23/21 18:57	02/24/21 11:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		1.0	1.0	%			02/23/21 13:23	1
Percent Solids	92.6		1.0	1.0	%			02/23/21 13:23	1

**Client Sample ID: SS-103**

**Date Collected: 02/22/21 08:14**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-3**

**Matrix: Solid**

**Percent Solids: 89.7**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	14	U	370	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2-Chlorophenol	13	U	370	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2-Methylphenol	14	U	370	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
4-Methylphenol	23	U	370	23	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2-Nitrophenol	37	U	370	37	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2,4-Dimethylphenol	16	U	370	16	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2,4-Dichlorophenol	24	U	150	24	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
4-Chloro-3-methylphenol	21	U	370	21	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2,4,6-Trichlorophenol	47	U	150	47	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2,4,5-Trichlorophenol	38	U	370	38	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
2,4-Dinitrotoluene	40	U	75	40	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
4-Nitrophenol	60	U	750	60	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
4,6-Dinitro-2-methylphenol	150	U	300	150	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
Pentachlorophenol	75	U	300	75	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
Bis(2-chloroethyl)ether	13	U	37	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
N-Nitrosodi-n-propylamine	27	U	37	27	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1
Hexachloroethane	13	U	37	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-103**

**Lab Sample ID: 460-228548-3**

Date Collected: 02/22/21 08:14

Matrix: Solid

Date Received: 02/23/21 11:20

Percent Solids: 89.7

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	8.8	U	37	8.8	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Isophorone	110	U	150	110	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Naphthalene	6.4	U	370	6.4	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
4-Chloroaniline	65	U	370	65	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Hexachlorobutadiene	7.8	U	75	7.8	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2-Methylnaphthalene	10	U	370	10	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Hexachlorocyclopentadiene	32	U	370	32	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2-Chloronaphthalene	17	U	370	17	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2-Nitroaniline	14	U	370	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Dimethyl phthalate	84	U	370	84	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Acenaphthylene	3.7	U	370	3.7	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2,6-Dinitrotoluene	27	U	75	27	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
3-Nitroaniline	41	U	370	41	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Acenaphthene	10	U	370	10	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Dibenzofuran	5.2	U	370	5.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2,4-Dinitrophenol	180	U	300	180	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Diethyl phthalate	5.3	U	370	5.3	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
4-Chlorophenyl phenyl ether	13	U	370	13	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Fluorene	5.0	U	370	5.0	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
4-Nitroaniline	42	U	370	42	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
N-Nitrosodiphenylamine	30	U	370	30	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
4-Bromophenyl phenyl ether	15	U	370	15	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Hexachlorobenzene	17	U	37	17	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Phenanthrene</b>	<b>41</b>	<b>J</b>	370	6.5	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Anthracene	11	U	370	11	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Carbazole	14	U	370	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Di-n-butyl phthalate	14	U	370	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Fluoranthene</b>	<b>71</b>	<b>J</b>	370	13	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Pyrene</b>	<b>67</b>	<b>J</b>	370	9.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Butyl benzyl phthalate	17	U	370	17	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Benzo[a]anthracene</b>	<b>45</b>		37	13	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Chrysene</b>	<b>41</b>	<b>J</b>	370	6.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Bis(2-ethylhexyl) phthalate	19	U	370	19	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Di-n-octyl phthalate	20	U	370	20	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Benzo[b]fluoranthene</b>	<b>57</b>		37	9.5	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Benzo[k]fluoranthene</b>	<b>18</b>	<b>J</b>	37	7.2	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Benzo[a]pyrene</b>	<b>44</b>		37	9.8	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>30</b>	<b>J</b>	37	14	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Dibenz(a,h)anthracene	16	U	37	16	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
<b>Benzo[g,h,i]perylene</b>	<b>27</b>	<b>J</b>	370	11	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Diphenyl	4.9	U	370	4.9	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Acetophenone	18	U	370	18	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Benzaldehyde	61	U	370	61	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Caprolactam	57	U	370	57	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
Atrazine	22	U	150	22	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2,2'-oxybis[1-chloropropane]	6.7	U	370	6.7	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
1,2,4,5-Tetrachlorobenzene	11	U	370	11	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
2,3,4,6-Tetrachlorophenol	25	U	370	25	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1
3,3'-Dichlorobenzidine	56	U	150	56	ug/Kg	✱	02/23/21 18:57	02/24/21 11:24	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-103**

**Date Collected: 02/22/21 08:14**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-3**

**Matrix: Solid**

**Percent Solids: 89.7**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	29	U	370	29	ug/Kg	☼	02/23/21 18:57	02/24/21 11:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			02/23/21 18:57	02/24/21 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		11 - 104	02/23/21 18:57	02/24/21 11:24	1
Phenol-d5	75		15 - 100	02/23/21 18:57	02/24/21 11:24	1
Terphenyl-d14	90		12 - 126	02/23/21 18:57	02/24/21 11:24	1
2,4,6-Tribromophenol	74		10 - 123	02/23/21 18:57	02/24/21 11:24	1
2-Fluorophenol	76		10 - 105	02/23/21 18:57	02/24/21 11:24	1
2-Fluorobiphenyl	78		14 - 103	02/23/21 18:57	02/24/21 11:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		1.0	1.0	%			02/23/21 13:23	1
Percent Solids	89.7		1.0	1.0	%			02/23/21 13:23	1

**Client Sample ID: SS-104**

**Date Collected: 02/22/21 08:05**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-4**

**Matrix: Solid**

**Percent Solids: 91.3**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2-Chlorophenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2-Methylphenol	14	U	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Methylphenol	23	U	360	23	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2-Nitrophenol	36	U	360	36	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,4-Dimethylphenol	16	U	360	16	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,4-Dichlorophenol	23	U	150	23	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Chloro-3-methylphenol	20	U	360	20	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,4,6-Trichlorophenol	47	U	150	47	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,4,5-Trichlorophenol	37	U	360	37	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,4-Dinitrotoluene	39	U	73	39	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Nitrophenol	59	U	730	59	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4,6-Dinitro-2-methylphenol	150	U	290	150	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Pentachlorophenol	74	U	290	74	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Bis(2-chloroethyl)ether	13	U	36	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
N-Nitrosodi-n-propylamine	26	U	36	26	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Hexachloroethane	12	U	36	12	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Nitrobenzene	8.7	U	36	8.7	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Isophorone	100	U	150	100	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Naphthalene	6.3	U	360	6.3	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Chloroaniline	64	U	360	64	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Hexachlorobutadiene	7.7	U	73	7.7	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2-Methylnaphthalene	10	U	360	10	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Hexachlorocyclopentadiene	32	U	360	32	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2-Chloronaphthalene	17	U	360	17	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2-Nitroaniline	14	U	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Dimethyl phthalate	82	U	360	82	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-104**

**Lab Sample ID: 460-228548-4**

Date Collected: 02/22/21 08:05

Matrix: Solid

Date Received: 02/23/21 11:20

Percent Solids: 91.3

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthylene</b>	<b>10</b>	<b>J</b>	360	3.6	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,6-Dinitrotoluene	26	U	73	26	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
3-Nitroaniline	41	U	360	41	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Acenaphthene</b>	<b>20</b>	<b>J</b>	360	10	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Dibenzofuran	5.1	U	360	5.1	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,4-Dinitrophenol	180	U	290	180	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Diethyl phthalate	5.2	U	360	5.2	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Chlorophenyl phenyl ether	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Fluorene</b>	<b>16</b>	<b>J</b>	360	4.9	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Nitroaniline	42	U	360	42	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
N-Nitrosodiphenylamine	30	U	360	30	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
4-Bromophenyl phenyl ether	14	U	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Hexachlorobenzene	17	U	36	17	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Phenanthrene</b>	<b>190</b>	<b>J</b>	360	6.4	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Anthracene</b>	<b>51</b>	<b>J</b>	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Carbazole</b>	<b>21</b>	<b>J</b>	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Di-n-butyl phthalate	14	U	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Fluoranthene</b>	<b>340</b>	<b>J</b>	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Pyrene</b>	<b>320</b>	<b>J</b>	360	9.0	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Butyl benzyl phthalate	17	U	360	17	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Benzo[a]anthracene</b>	<b>210</b>		36	13	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Chrysene</b>	<b>180</b>	<b>J</b>	360	6.1	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Bis(2-ethylhexyl) phthalate	19	U	360	19	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Di-n-octyl phthalate	19	U	360	19	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Benzo[b]fluoranthene</b>	<b>310</b>		36	9.4	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Benzo[k]fluoranthene</b>	<b>92</b>		36	7.1	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Benzo[a]pyrene</b>	<b>230</b>		36	9.7	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>160</b>		36	14	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Dibenz(a,h)anthracene</b>	<b>45</b>		36	16	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
<b>Benzo[g,h,i]perylene</b>	<b>150</b>	<b>J</b>	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Diphenyl	4.8	U	360	4.8	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Acetophenone	18	U	360	18	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Benzaldehyde	60	U	360	60	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Caprolactam	56	U	360	56	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Atrazine	21	U	150	21	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,2'-oxybis[1-chloropropane]	6.6	U	360	6.6	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
1,2,4,5-Tetrachlorobenzene	11	U	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
2,3,4,6-Tetrachlorophenol	25	U	360	25	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
3,3'-Dichlorobenzidine	55	U	150	55	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1
Bis(2-chloroethoxy)methane	28	U	360	28	ug/Kg	☼	02/23/21 18:57	02/24/21 11:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			02/23/21 18:57	02/24/21 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		11 - 104	02/23/21 18:57	02/24/21 11:46	1
Phenol-d5	78		15 - 100	02/23/21 18:57	02/24/21 11:46	1
Terphenyl-d14	93		12 - 126	02/23/21 18:57	02/24/21 11:46	1
2,4,6-Tribromophenol	75		10 - 123	02/23/21 18:57	02/24/21 11:46	1
2-Fluorophenol	78		10 - 105	02/23/21 18:57	02/24/21 11:46	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-104**

Date Collected: 02/22/21 08:05

Date Received: 02/23/21 11:20

**Lab Sample ID: 460-228548-4**

Matrix: Solid

Percent Solids: 91.3

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		14 - 103	02/23/21 18:57	02/24/21 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		1.0	1.0	%			02/23/21 13:23	1
Percent Solids	91.3		1.0	1.0	%			02/23/21 13:23	1

**Client Sample ID: SS-105**

Date Collected: 02/22/21 08:23

Date Received: 02/23/21 11:20

**Lab Sample ID: 460-228548-5**

Matrix: Solid

Percent Solids: 92.6

**Method: 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2-Chlorophenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2-Methylphenol	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Methylphenol	22	U	360	22	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2-Nitrophenol	36	U	360	36	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,4-Dimethylphenol	16	U	360	16	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,4-Dichlorophenol	23	U	140	23	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Chloro-3-methylphenol	20	U	360	20	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,4,6-Trichlorophenol	46	U	140	46	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,4,5-Trichlorophenol	36	U	360	36	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,4-Dinitrotoluene	38	U	72	38	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Nitrophenol	58	U	720	58	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4,6-Dinitro-2-methylphenol	150	U	290	150	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Pentachlorophenol	73	U	290	73	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Bis(2-chloroethyl)ether	12	U	36	12	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
N-Nitrosodi-n-propylamine	26	U	36	26	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Hexachloroethane	12	U	36	12	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Nitrobenzene	8.6	U	36	8.6	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Isophorone	100	U	140	100	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Naphthalene	6.2	U	360	6.2	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Chloroaniline	63	U	360	63	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Hexachlorobutadiene	7.6	U	72	7.6	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2-Methylnaphthalene	10	U	360	10	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Hexachlorocyclopentadiene	31	U	360	31	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2-Chloronaphthalene	17	U	360	17	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2-Nitroaniline	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Dimethyl phthalate	81	U	360	81	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Acenaphthylene</b>	<b>18</b>	<b>J</b>	360	3.6	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,6-Dinitrotoluene	26	U	72	26	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
3-Nitroaniline	40	U	360	40	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Acenaphthene	10	U	360	10	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Dibenzofuran	5.0	U	360	5.0	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,4-Dinitrophenol	180	U	290	180	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Diethyl phthalate	5.2	U	360	5.2	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Chlorophenyl phenyl ether	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Fluorene	4.8	U	360	4.8	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Nitroaniline	41	U	360	41	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-105**

**Lab Sample ID: 460-228548-5**

Date Collected: 02/22/21 08:23

Matrix: Solid

Date Received: 02/23/21 11:20

Percent Solids: 92.6

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	29	U	360	29	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
4-Bromophenyl phenyl ether	14	U	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Hexachlorobenzene	17	U	36	17	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Phenanthrene</b>	<b>45</b>	<b>J</b>	360	6.3	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Anthracene	11	U	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Carbazole	14	U	360	14	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Di-n-butyl phthalate	13	U	360	13	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Fluoranthene</b>	<b>120</b>	<b>J</b>	360	12	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Pyrene</b>	<b>110</b>	<b>J</b>	360	8.9	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Butyl benzyl phthalate</b>	<b>23</b>	<b>J</b>	360	17	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Benzo[a]anthracene</b>	<b>72</b>		36	12	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Chrysene</b>	<b>110</b>	<b>J</b>	360	6.0	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>37</b>	<b>J</b>	360	19	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Di-n-octyl phthalate	19	U	360	19	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Benzo[b]fluoranthene</b>	<b>170</b>		36	9.2	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Benzo[k]fluoranthene</b>	<b>47</b>		36	7.0	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Benzo[a]pyrene</b>	<b>120</b>		36	9.5	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>78</b>		36	14	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Dibenz(a,h)anthracene</b>	<b>26</b>	<b>J</b>	36	15	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
<b>Benzo[g,h,i]perylene</b>	<b>90</b>	<b>J</b>	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Diphenyl	4.7	U	360	4.7	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Acetophenone	18	U	360	18	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Benzaldehyde	59	U	360	59	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Caprolactam	56	U	360	56	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Atrazine	21	U	140	21	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,2'-oxybis[1-chloropropane]	6.5	U	360	6.5	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
1,2,4,5-Tetrachlorobenzene	11	U	360	11	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
2,3,4,6-Tetrachlorophenol	24	U	360	24	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
3,3'-Dichlorobenzidine	54	U	140	54	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1
Bis(2-chloroethoxy)methane	28	U	360	28	ug/Kg	☼	02/23/21 18:57	02/24/21 12:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1R- $\alpha$ -Pinene	350	J N	ug/Kg	☼	3.72	7785-70-8	02/23/21 18:57	02/24/21 12:31	1
Thioacetamide, 2-[4-(2-oxo-2H-chromen-3-yl)thiazol-2-yl]	3200	J N	ug/Kg	☼	9.33	1000277-24-9	02/23/21 18:57	02/24/21 12:31	1
-									
10,18-Bisnorabieta-8,11,13-triene	690	J N	ug/Kg	☼	9.65	32624-67-2	02/23/21 18:57	02/24/21 12:31	1
1H-Benzocyclohepten-7-ol,	450	J N	ug/Kg	☼	10.81	6892-80-4	02/23/21 18:57	02/24/21 12:31	1
2,3,4,4a,5,6,7,8-octahydro-1,1,4a,Unknown	1500	J	ug/Kg	☼	11.15		02/23/21 18:57	02/24/21 12:31	1
1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	3900	J N	ug/Kg	☼	12.03	1000110-40-2	02/23/21 18:57	02/24/21 12:31	1
Unknown	550	J	ug/Kg	☼	13.38		02/23/21 18:57	02/24/21 12:31	1
Unknown	580	J	ug/Kg	☼	15.09		02/23/21 18:57	02/24/21 12:31	1
4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a,5,6,6a,6b,7,8,8a,9,	1300	J N	ug/Kg	☼	15.90	1000194-62-4	02/23/21 18:57	02/24/21 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		11 - 104	02/23/21 18:57	02/24/21 12:31	1
Phenol-d5	73		15 - 100	02/23/21 18:57	02/24/21 12:31	1

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-105**

**Date Collected: 02/22/21 08:23**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-5**

**Matrix: Solid**

**Percent Solids: 92.6**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	73		12 - 126	02/23/21 18:57	02/24/21 12:31	1
2,4,6-Tribromophenol	72		10 - 123	02/23/21 18:57	02/24/21 12:31	1
2-Fluorophenol	75		10 - 105	02/23/21 18:57	02/24/21 12:31	1
2-Fluorobiphenyl	75		14 - 103	02/23/21 18:57	02/24/21 12:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		1.0	1.0	%			02/23/21 13:23	1
Percent Solids	92.6		1.0	1.0	%			02/23/21 13:23	1

**Client Sample ID: SS-106**

**Date Collected: 02/22/21 08:25**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-6**

**Matrix: Solid**

**Percent Solids: 89.2**

**Method: 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	27	U	740	27	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2-Chlorophenol	26	U	740	26	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2-Methylphenol	28	U	740	28	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4-Methylphenol	46	U	740	46	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2-Nitrophenol	74	U	740	74	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,4-Dimethylphenol	33	U	740	33	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,4-Dichlorophenol	48	U	300	48	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4-Chloro-3-methylphenol	42	U	740	42	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,4,6-Trichlorophenol	95	U	300	95	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,4,5-Trichlorophenol	76	U	740	76	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,4-Dinitrotoluene	80	U	150	80	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4-Nitrophenol	120	U	1500	120	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4,6-Dinitro-2-methylphenol	300	U	600	300	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Pentachlorophenol	150	U	600	150	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Bis(2-chloroethyl)ether	26	U	74	26	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
N-Nitrosodi-n-propylamine	54	U	74	54	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Hexachloroethane	25	U	74	25	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Nitrobenzene	18	U	74	18	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Isophorone	210	U	300	210	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Naphthalene</b>	<b>30</b>	<b>J</b>	740	13	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4-Chloroaniline	130	U	740	130	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Hexachlorobutadiene	16	U	150	16	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>2-Methylnaphthalene</b>	<b>34</b>	<b>J</b>	740	21	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Hexachlorocyclopentadiene	65	U	740	65	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2-Chloronaphthalene	34	U	740	34	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2-Nitroaniline	28	U	740	28	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Dimethyl phthalate	170	U	740	170	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Acenaphthylene</b>	<b>370</b>	<b>J</b>	740	7.5	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,6-Dinitrotoluene	54	U	150	54	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
3-Nitroaniline	84	U	740	84	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Acenaphthene</b>	<b>330</b>	<b>J</b>	740	21	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Dibenzofuran</b>	<b>140</b>	<b>J</b>	740	10	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,4-Dinitrophenol	360	U	600	360	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Diethyl phthalate	11	U	740	11	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2

Eurofins TestAmerica, Edison



# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-106**

**Lab Sample ID: 460-228548-6**

Date Collected: 02/22/21 08:25

Matrix: Solid

Date Received: 02/23/21 11:20

Percent Solids: 89.2

**Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	26	U	740	26	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Fluorene</b>	<b>480</b>	<b>J</b>	740	10	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4-Nitroaniline	85	U	740	85	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
N-Nitrosodiphenylamine	61	U	740	61	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
4-Bromophenyl phenyl ether	29	U	740	29	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Hexachlorobenzene	35	U	74	35	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Phenanthrene</b>	<b>5500</b>		740	13	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Anthracene</b>	<b>1400</b>		740	23	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Carbazole</b>	<b>300</b>	<b>J</b>	740	28	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Di-n-butyl phthalate	28	U	740	28	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Fluoranthene</b>	<b>12000</b>		740	26	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Pyrene</b>	<b>9800</b>		740	18	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Butyl benzyl phthalate	35	U	740	35	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Benzo[a]anthracene</b>	<b>5700</b>		74	26	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Chrysene</b>	<b>5700</b>		740	13	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Bis(2-ethylhexyl) phthalate	39	U	740	39	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Di-n-octyl phthalate	39	U	740	39	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Benzo[b]fluoranthene</b>	<b>9100</b>		74	19	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Benzo[k]fluoranthene</b>	<b>2800</b>		74	15	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Benzo[a]pyrene</b>	<b>6700</b>		74	20	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Indeno[1,2,3-cd]pyrene</b>	<b>3500</b>		74	29	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Dibenz(a,h)anthracene</b>	<b>920</b>		74	32	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
<b>Benzo[g,h,i]perylene</b>	<b>2600</b>		740	22	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Diphenyl	9.8	U	740	9.8	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Acetophenone	36	U	740	36	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Benzaldehyde	120	U	740	120	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Caprolactam	120	U	740	120	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Atrazine	44	U	300	44	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,2'-oxybis[1-chloropropane]	13	U	740	13	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
1,2,4,5-Tetrachlorobenzene	23	U	740	23	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
2,3,4,6-Tetrachlorophenol	50	U	740	50	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
3,3'-Dichlorobenzidine	110	U	300	110	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2
Bis(2-chloroethoxy)methane	58	U	740	58	ug/Kg	☼	02/23/21 18:57	02/24/21 13:15	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene, 1,4,6-trimethyl-	700	J N	ug/Kg	☼	7.66	2131-42-2	02/23/21 18:57	02/24/21 13:15	2
4H-Cyclopenta[def]phenanthrene	2600	J N	ug/Kg	☼	9.24	203-64-5	02/23/21 18:57	02/24/21 13:15	2
9,10-Anthracenedione	1100	J N	ug/Kg	☼	9.44	84-65-1	02/23/21 18:57	02/24/21 13:15	2
Phenanthrene, 2,5-dimethyl-	1600	J N	ug/Kg	☼	9.66	3674-66-6	02/23/21 18:57	02/24/21 13:15	2
11H-Benzo[b]fluorene	650	J N	ug/Kg	☼	10.34	243-17-4	02/23/21 18:57	02/24/21 13:15	2
Unknown PAH	770	J	ug/Kg	☼	10.45		02/23/21 18:57	02/24/21 13:15	2
Pyrene, 1-methyl-	970	J N	ug/Kg	☼	10.54	2381-21-7	02/23/21 18:57	02/24/21 13:15	2
11H-Benzo[a]fluoren-11-one	970	J N	ug/Kg	☼	10.87	479-79-8	02/23/21 18:57	02/24/21 13:15	2
Benzo[b]naphtho[2,3-d]thiophene	1500	J N	ug/Kg	☼	10.99	243-46-9	02/23/21 18:57	02/24/21 13:15	2
Cyclopenta(cd)pyrene, 3,4-dihydro-	780	J N	ug/Kg	☼	11.42	25732-74-5	02/23/21 18:57	02/24/21 13:15	2
Chrysene, 1-methyl-	800	J N	ug/Kg	☼	11.79	3351-28-8	02/23/21 18:57	02/24/21 13:15	2
Unknown	1100	J	ug/Kg	☼	11.95		02/23/21 18:57	02/24/21 13:15	2
Benz(A)anthracene-7,12-dione	760	J N	ug/Kg	☼	12.21	2498-66-0	02/23/21 18:57	02/24/21 13:15	2
Unknown	660	J	ug/Kg	☼	12.44		02/23/21 18:57	02/24/21 13:15	2
Benzo[e]pyrene	1100	J N	ug/Kg	☼	12.80	192-97-2	02/23/21 18:57	02/24/21 13:15	2

Eurofins TestAmerica, Edison

# Client Sample Results

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-106**

**Lab Sample ID: 460-228548-6**

Date Collected: 02/22/21 08:25

Matrix: Solid

Date Received: 02/23/21 11:20

Percent Solids: 89.2

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dibenzo[def,mno]chrysene	2000	J N	ug/Kg	☼	15.45	191-26-4	02/23/21 18:57	02/24/21 13:15	2
Unknown	740	J	ug/Kg	☼	16.02		02/23/21 18:57	02/24/21 13:15	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		11 - 104	02/23/21 18:57	02/24/21 13:15	2
Phenol-d5	84		15 - 100	02/23/21 18:57	02/24/21 13:15	2
Terphenyl-d14	86		12 - 126	02/23/21 18:57	02/24/21 13:15	2
2,4,6-Tribromophenol	81		10 - 123	02/23/21 18:57	02/24/21 13:15	2
2-Fluorophenol	85		10 - 105	02/23/21 18:57	02/24/21 13:15	2
2-Fluorobiphenyl	84		14 - 103	02/23/21 18:57	02/24/21 13:15	2

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		1.0	1.0	%			02/23/21 13:23	1
Percent Solids	89.2		1.0	1.0	%			02/23/21 13:23	1

# Lab Chronicle

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-101**

**Date Collected: 02/22/21 08:19**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	760509	02/23/21 13:23	MMC	TAL EDI

**Client Sample ID: SS-101**

**Date Collected: 02/22/21 08:19**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-1**

**Matrix: Solid**

**Percent Solids: 94.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			760560	02/23/21 18:57	ARA	TAL EDI
Total/NA	Analysis	8270E		1	760619	02/24/21 12:53	DAN	TAL EDI

**Client Sample ID: SS-102**

**Date Collected: 02/22/21 08:16**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	760509	02/23/21 13:23	MMC	TAL EDI

**Client Sample ID: SS-102**

**Date Collected: 02/22/21 08:16**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-2**

**Matrix: Solid**

**Percent Solids: 92.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			760560	02/23/21 18:57	ARA	TAL EDI
Total/NA	Analysis	8270E		1	760619	02/24/21 11:02	DAN	TAL EDI

**Client Sample ID: SS-103**

**Date Collected: 02/22/21 08:14**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	760509	02/23/21 13:23	MMC	TAL EDI

**Client Sample ID: SS-103**

**Date Collected: 02/22/21 08:14**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-3**

**Matrix: Solid**

**Percent Solids: 89.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			760560	02/23/21 18:57	ARA	TAL EDI
Total/NA	Analysis	8270E		1	760619	02/24/21 11:24	DAN	TAL EDI

**Client Sample ID: SS-104**

**Date Collected: 02/22/21 08:05**

**Date Received: 02/23/21 11:20**

**Lab Sample ID: 460-228548-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	760509	02/23/21 13:23	MMC	TAL EDI

Eurofins TestAmerica, Edison

# Lab Chronicle

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

**Client Sample ID: SS-104**

**Lab Sample ID: 460-228548-4**

**Date Collected: 02/22/21 08:05**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			760560	02/23/21 18:57	ARA	TAL EDI
Total/NA	Analysis	8270E		1	760619	02/24/21 11:46	DAN	TAL EDI

**Client Sample ID: SS-105**

**Lab Sample ID: 460-228548-5**

**Date Collected: 02/22/21 08:23**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	760509	02/23/21 13:23	MMC	TAL EDI

**Client Sample ID: SS-105**

**Lab Sample ID: 460-228548-5**

**Date Collected: 02/22/21 08:23**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 92.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			760560	02/23/21 18:57	ARA	TAL EDI
Total/NA	Analysis	8270E		1	760619	02/24/21 12:31	DAN	TAL EDI

**Client Sample ID: SS-106**

**Lab Sample ID: 460-228548-6**

**Date Collected: 02/22/21 08:25**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	760509	02/23/21 13:23	MMC	TAL EDI

**Client Sample ID: SS-106**

**Lab Sample ID: 460-228548-6**

**Date Collected: 02/22/21 08:25**

**Matrix: Solid**

**Date Received: 02/23/21 11:20**

**Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			760560	02/23/21 18:57	ARA	TAL EDI
Total/NA	Analysis	8270E		2	760619	02/24/21 13:15	DAN	TAL EDI

**Laboratory References:**

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

## Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	12-31-21
Georgia	State	12028 (NJ)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
New York	NELAP	11452	04-01-21
Pennsylvania	NELAP	68-00522	02-28-22
Rhode Island	State	LAO00132	12-30-21
USDA	US Federal Programs	P330-20-00244	11-03-23

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



# Sample Summary

Client: RT Environmental Services, Inc.  
Project/Site: Beach St

Job ID: 460-228548-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-228548-1	SS-101	Solid	02/22/21 08:19	02/23/21 11:20	
460-228548-2	SS-102	Solid	02/22/21 08:16	02/23/21 11:20	
460-228548-3	SS-103	Solid	02/22/21 08:14	02/23/21 11:20	
460-228548-4	SS-104	Solid	02/22/21 08:05	02/23/21 11:20	
460-228548-5	SS-105	Solid	02/22/21 08:23	02/23/21 11:20	
460-228548-6	SS-106	Solid	02/22/21 08:25	02/23/21 11:20	

TAL-9210

Address: \_\_\_\_\_

1.6°C

Regulatory Program:  DW  NPDES  RCRA  Other: **PADEP**

Client Contact Company Name: <b>RT Env Serv</b> Address: <b>215 W. Church</b> City/State/Zip: <b>POB</b> Phone: _____ Fax: _____ Project Name: <b>Beach St</b> Site: _____ P.O.#: <b>70588-21-20</b>		Project Manager: <b>Craig Hen</b> Tel/Email: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input checked="" type="checkbox"/> 1 day		Site Contact: <b>Craig Hen</b> Date: <b>2-22-21</b> Carrier: _____ COC No: _____ of _____ COCs	
Sample Identification <b>55-101</b> <b>55-102</b> <b>55-103</b> <b>55-104</b> <b>55-105</b> <b>55-106</b>		Sample Date <b>2-22-21</b> <b>819</b> <b>816</b> <b>814</b> <b>805</b> <b>823</b> <b>825</b>		Sample Type (G=Comp, G=Grab) <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b>	
Sample Matrix <b>Sol</b> <b>Sol</b> <b>Sol</b> <b>Sol</b> <b>Sol</b> <b>Sol</b> <b>Sol</b>		Sample Cont. <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>		Sample Specific Notes: <b>1-2-3-4-5-6</b>	
Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		Barcode:  460-228548 Chain of Custody	
<p><b>Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other</b></p> <p><b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown</p>					
<p><b>Special Instructions/QC Requirements &amp; Comments:</b></p> <p>Cooler Temp. (°C): <b>2.5°C</b>    Cor'd: _____    Therm ID No.: _____</p> <p><input type="checkbox"/> Return to Client    <input type="checkbox"/> Disposal by Lab    <input type="checkbox"/> Archive for _____ Months</p>					
Custody Seal No.: _____		Received by: <b>Craig Hen</b>		Date/Time: <b>2/22/21 10:13</b>	
Relinquished by: _____		Received by: <b>Adriano via Lead</b>		Date/Time: <b>2/23/21 11:20</b>	
Relinquished by: _____		Received in Laboratory by: _____		Date/Time: _____	

CASH # 1354209







# Login Sample Receipt Checklist

Client: RT Environmental Services, Inc.

Job Number: 460-228548-1

**Login Number: 228548**

**List Source: Eurofins TestAmerica, Edison**

**List Number: 1**

**Creator: Lysy, Susan**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1354209
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



**Appendix B – Field Activity & Test Pit Logs (RT)**

**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

**FILE**

Client: <u>Jim Anderson</u>		Project #: <u>70471-01</u>		Initials: <u>PL</u>	
Job Location: <u>Phila PA</u>		Date: <u>6/17/03</u>		Weather: <u>Sunny</u>	
Site Address:					
Equipment:					
Equipment Calibration: Model:					
PID: Gas/Lot#:		Gas ppm=		Instrument ppm=	
H & S: Hospital Name:					
Location:			Number:		
Police:			Number:		
Explosive Atmosphere/Conditions:				Yes No	
Utility Clearance		Client Approval:			
Serial #		(On-Site Utilities)		Name Date/Time	
Drums on Site: No		Yes		Soil Pile: No Yes/Size	

**FIELD ACTIVITY:** TEST PIT INVESTIGATION

8:30 MEET WITH GRS, LIZ-TRILLIUM DISCUSS ACTIVITIES

8:54 BEGIN TEST PIT 1 IN AREA OF SB-10 (FIG 10) PART 5' of APPROX 9' OF HISTORICAL FILL BRICK, CINDER, LAYER OF CONCRETE APPROX 5' 4" THICK, SANDY MATERIAL AT 10-11', CLAY + WATER AT 12-12.5

9:30 COLLECT TP-1 1-1 (APPROX 5' CINDER MATERIAL)

9:32 COLLECT TP-1 1-2 (APPROX 12' SANDY WET MATERIAL), BACKFILL EXCAVATION

9:50 BEGIN TEST PIT 2 IN AREA OF SB-8, WATER AT APPROX. 5', ALL FILL MATERIAL ON TOP LARGE PIECES OF CONCRETE THE FURTHER DOWN WE EXCAVATE

10:02 COLLECT TP-2 2-1 (FROM APPROX 4', ~~FROM~~ GW INTERFACE) BACKFILL EXCAVATION

10:30 BEGIN TEST PIT 3 IN AREA OF SB-1, INTERMITTENT LAYERS OF BROWN SOIL BETWEEN GREY CINDER, BRICK, RR TIES, OBSTRUCTION AT APPROX 3', MOVE BACK AND CONTINUE EXCAVATION, SMALL TRICKLE OF WATER INFILTRATION AT APPROX 2.5'

11:08 COLLECT TP-3 3-4 3'

11:14 COLLECT TP-3 3-5 11.5' (GW Interface), BACKFILL EXCAVATION

12:35 BEGIN TEST PIT 4 IN AREA BETWEEN TWO LARGE MOUNDS, EXCAVATION - SOIL WITH 2-3" STONE, NO BRICK, BACK OF EXCAVATION CONCRETE FOUNDATION, WATER INFILTRATION 8'

12:52 COLLECT TP-4 4-6 3'

12:54 COLLECT TP-4 4-7 8' (GW Interface) BACKFILL EXCAVATION

1:10 BEGIN TEST PIT 5, LIGHT TAN AND BROWN SOIL TO 2' WITH BRICK, ROCK + CONCRETE TO 8' 8' WOOD PLATFORM, WATER UNDER PLATFORM

1:35 COLLECT TP-5 5-8 1'

1:37 COLLECT TP-5 5-9 GW INTERFACE 7.5'

1:44 BEGIN TEST PIT 6, DARK BROWN SOIL WITH METAL, ROCK, CONCRETE, WOOD, BRICK, MOST DEBRIS

Comments:



**RT ENVIRONMENTAL SERVICES, INC.**  
**FIELD ACTIVITY LOG**

Client: <u>Jim Anderson</u>	Project #: <u>70431-01</u>	Initials: <u>PL</u>
Job Location: <u>Phila PA</u>	Date: <u>6/18/03</u>	Weather: <u>OVERCAST RAIN</u>
Site Address:		
Equipment:		
Equipment Calibration: Model:		
PID: Gas/Lot#:	Gas ppm=	Instrument ppm=
H & S: Hospital Name:		
Location:		Number:
Police:		Number:
Explosive Atmosphere/Conditions:		Yes No
Utility Clearance	Client Approval:	
Serial #	(On-Site Utilities)	Name Date/Time
Drums on Site: No Yes	Soil Pile: No Yes/Size	

**FIELD ACTIVITY:** TEST PIT INVESTIGATION

8:45 BEGIN TEST PIT 8, STANDING WATER FLOWING INTO EXCAVATION, MOVE BACK 50' TO HIGHER GROUND, RESUME TEST PIT & EXCAVATION, BROWN SOIL WITH BRICK, WOOD, (WATER INFILTRATION AT APPROX 2') CONCRETE, METAL

9:05 BACKHOLE DOWN, TRY TO REPAIR IN FIELD, HERO FROM ANDERSON CONSTRUCTION UNIT, HAS ANOTHER BACKHOLE EN ROUTE

10:05 BACKHOLE REPAIRED, CONTINUE EXCAVATION, MORE DEBRIS IN BOTTOM PORTION OF EXCAVATION, METAL, ROCK, CONCRETE, PLASTIC METAL CABLE, WATER AT 10'

10:27 COLLECT TP-8 S-14 3'

10:25 COLLECT TP-8 S-15 (FROM TOP OF DEBRIS PILE HIGHLY MIXED, BLACK MATERIAL, SHEEN) PID 8.6

10:40 BEGIN TEST PIT 9, BROWN SOIL W/ BRICK, NOT A LOT OF DEBRIS, -DRIVE ROCKS + CONCRETE AT APPROX 10', GREY CLAY LAYER APPROX 11' SOME WATER FROM ABOVE THAT, CONCRETE FOUNDATION, ONLY SMALL AMOUNT OF WATER AT 8' NOT REACH WATER AT BOTTOM, 13'

11:15 COLLECT TP-9 S-16 3'

11:18 COLLECT TP-9 S-17 (FROM BETWEEN CONCRETE FOUNDATION - 13') BACKFILL EXCAVATION

11:35 BEGIN TEST PIT 10, VERY SMALL DEBRIS AT VERY SHALLOW INTERVAL, CONCRETE, METAL CABLE, GLASS, 1/2 DRUM BRICK, HME, TEXTILES, SMALL AMOUNT OF WATER INFILTRATION AT APPROX 3', 6' Black GRAVELLY SOIL w/ small rock, WATER AT 14'

12:11 COLLECT TP-10 S-18 3'

12:14 COLLECT TP-10 S-19 13.5' (GW INTERFACE) SLIGHT SHEEN, BACKFILL EXCAVATION

12:30 BEGIN TEST PIT 11, DARK BROWN SOIL WITH COBBLE STONES + RIVER ROCK, WOOD, SMALL AMOUNT OF BRICK, MORE BRICK AT APPROX 9', ALSO, ROCK AND CONCRETE, AT 12' THICK DRILL LAYER, UNDER BRICK, LARGE ROCKS (ORIGINAL BACKHEAD MATERIAL) WATER

1:41 COLLECT TP-11 S-20 3'

Comments:

**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

Client: <u>Jim Anderson</u>		Project #: <u>70431-01</u>	Initials: <u>PL</u>
Job Location: <u>Phila PA</u>		Date: <u>6/18/07</u>	Weather: <u>OVERCAST</u>
Site Address:			
Equipment:			
Equipment Calibration: Model:			
PID: Gas/Lot#:		Gas ppm=	Instrument ppm=
H & S: Hospital Name:			
Location:		Number:	
Police:		Number:	
Explosive Atmosphere/Conditions:		Yes	No
Utility Clearance		Client Approval:	
Serial #	(On-Site Utilities)	Name	Date/Time
Drums on Site: <u>No</u>	<u>Yes</u>	Soil Pile: <u>No</u>	<u>Yes/Size</u>

**FIELD ACTIVITY:** TEST PIT INVESTIGATION

1:40 COLLECT TP-11 S-21 14.5' (GW INTERFACE, STILL DRILL AND LARGE ROCKS)  
BACKFILL EXCAVATION

2:35 BEGIN TEST PIT 12, TAN, BROWN + BLACK SANDY SOILS, W/ SMALL AMOUNTS OF DRILL AND GRAVEL  
NATIVE SOIL, SANDY TAN SOIL AT 6', WATER 7'

2:45 COLLECT TP-12 S-22 6' (SANDY SOIL, NATIVE) BACKFILL EXCAVATION

2:50 BEGIN TEST PIT 13, TAN, BROWN TO DARK BROWN SOILS, SMALL AMOUNTS OF ROCK, BRICK  
CLAM/OYSTER SHELLS, GREY SAND AT 5', WATER 6'

2:57 COLLECT TP-13 S-23 6' (GW INTERFACE NATIVE SOILS)

2:59 COLLECT TP-13 S-24 5.5' (NATIVE SOILS) BACKFILL EXCAVATION

3:07 BEGIN TEST PIT 14, TAN, BROWN SOILS, ASPHALT LAYER AT 2', BROWN SAND TO  
CLAY + ORGANIC MATERIAL WATER 11'

(ROLL 3:20 COLLECT TP-14 S-25 6' (SANDY CLAY NATIVE) BACKFILL EXCAVATION

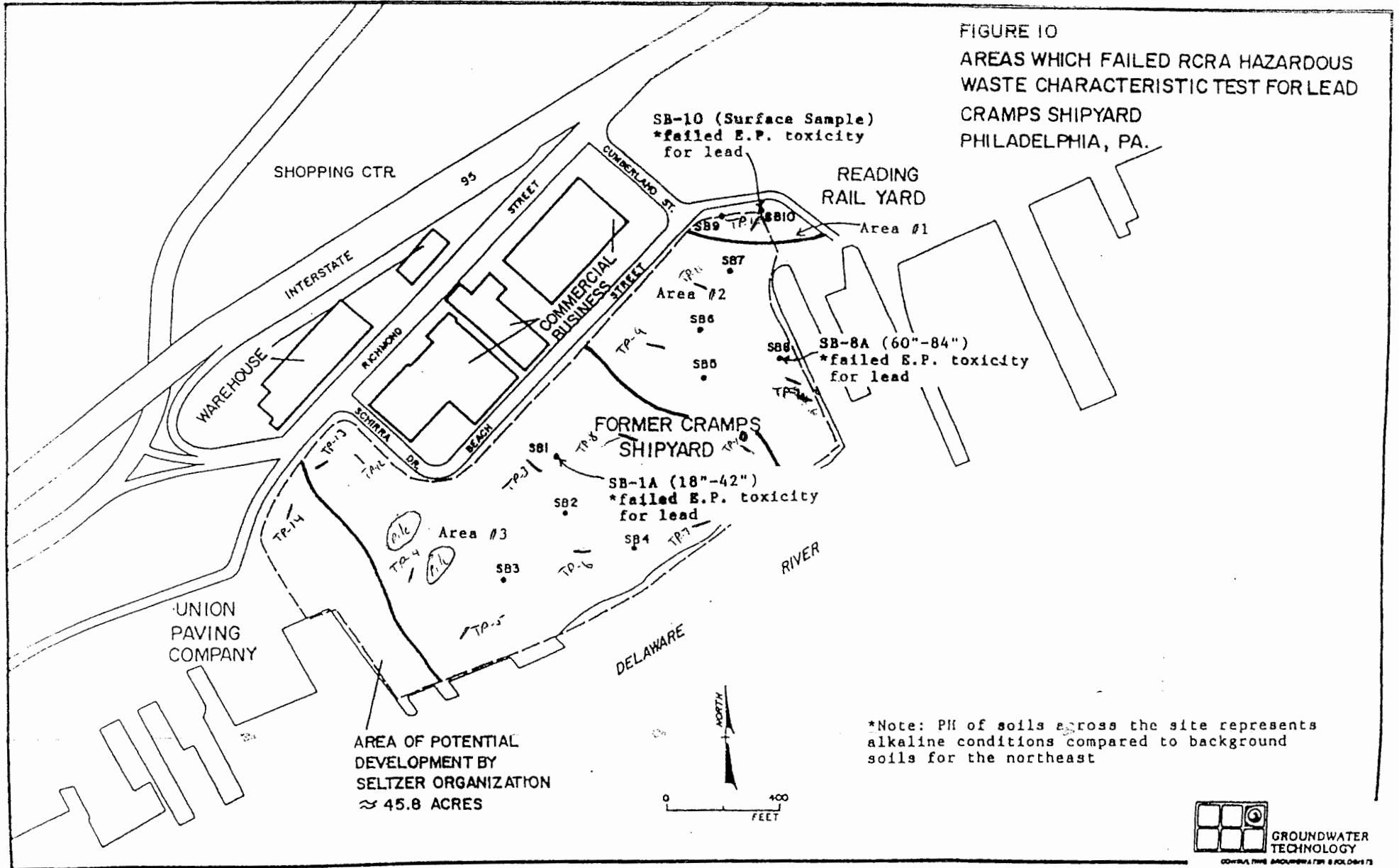
3:45 LEAVE SITE

3:22 COLLECT TP-14 S-26 9' GW INTERFACE, BACKFILL EXCAVATION

3:45 LEAVE SITE

Comments:

FIGURE 10  
 AREAS WHICH FAILED RCRA HAZARDOUS  
 WASTE CHARACTERISTIC TEST FOR LEAD  
 CRAMPS SHIPYARD  
 PHILADELPHIA, PA.







# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client:	Bill To:	TAT: Standard    5 DAY    3 DAY    1 DAY 4 DAY    2 DAY    < 24 HRS.
Address:	Address:	DATE RESULTS NEEDED:
Report to:	Phone #: ( ) Fax #: ( )	State & Program: PA DEP
	Phone #: ( ) Fax #: ( )	SHIPPING#:

Project:	Sampler:	PO/Quote #:	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
							MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED-BROKEN	IMPROPERLY SEALED		GOOD CONDITION
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			PID:																
			2																
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COMMENTS: \_\_\_\_\_

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# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <i>...</i>		Bill To: <i>...</i>		TAT: Standard		5 DAY		3 DAY		1 DAY											
Address: <i>...</i>		Address: <i>...</i>				4 DAY		2 DAY		< 24 HRS.											
Report to: <i>...</i>		Phone #: ( ) <i>...</i>		State & Program: <i>PA DEP</i>		Phone #: ( ) <i>...</i>		Fax #: ( ) <i>...</i>		DATE RESULTS NEEDED:											
Project: <i>...</i>		Fax #: ( ) <i>...</i>								TEMPERATURE UPON RECEIPT:											
Sampler: <i>...</i>		SHIPPING#:																			
PO/Quote #: <i>...</i>																					
FIELD ID, LOCATION		DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER				
					MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE			CRACKED-BROKEN	IMPROPERLY SEALED	GOOD CONDITION					
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# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <i>...</i>	Bill To: <i>...</i>	TAT: Standard 5 DAY 3 DAY 1 DAY 4 DAY 2 DAY < 24 HRS.
Address: <i>...</i>	Address: <i>SAME</i>	DATE RESULTS NEEDED: <i>4/1/16</i>
Report to: <i>...</i>	Phone #: ( ) <i>...</i> Fax #: ( ) <i>...</i>	State & Program: <i>PADEP</i>
	Phone #: ( ) <i>...</i> Fax #: ( ) <i>...</i>	SHIPPING#: <i>...</i>

Project:	Sampler:	PO/Quote #:	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE		TOTAL # OF BOTTLES	CRACKED-BROKEN	IMPROPERLY SEALED	
FIELD ID, LOCATION																	
1	PID:		<i>4/17</i>	<i>11:35</i>	<i>Soil</i>												<i>K...</i>
2	PID:		<i>4/17</i>	<i>11:10</i>	<i>Soil</i>												
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COMMENTS: *...*

PAGE *...* OF *...*



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <i>PA Dept of Environmental Protection</i>	Bill To: <i>PA Dept of Environmental Protection</i>	TAT: Standard 5 DAY 3 DAY 1 DAY 4 DAY 2 DAY < 24 HRS.
Address: <i>100 W. Chester St</i>	Address: <i>SAME</i>	DATE RESULTS NEEDED: <i>8/1/03</i>
Report to: <i>J. Blawie</i>	Phone #: (610) 263-1370 Fax #: (610) 263-1067	State & Program: <i>PA DEP</i>
	Phone #: ( ) Fax #: ( )	SHIPPING#:

Project: <i>PA DEP</i>	Sampler:	PO/Quote #:	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER
							MeOH	NaH2SO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED-BROKEN	IMPROPERLY SEALED	
			1] <i>PA DEP</i>	<i>6/10</i>	<i>14:35</i>	<i>Soil</i>							<i>2</i>					
			PID:															
			2] <i>PA DEP</i>	<i>6/10</i>	<i>14:10</i>	<i>Soil</i>							<i>2</i>					
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COMMENTS: \_\_\_\_\_

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**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

**FILE**

Client: <u>Anderson Construction</u>		Project #: <u>78431-01</u>	Initials: <u>PL</u>
Job Location: <u>PHIL PA</u>		Date: <u>10/26/02</u>	Weather: <u>SUNNY</u>
Site Address:			
Equipment:			
Equipment Calibration: Model:			
PID: Gas/Lot#:		Gas ppm=	Instrument ppm=
H & S: Hospital Name:			
Location:		Number:	
Police:		Number:	
Explosive Atmosphere/Conditions:		Yes No	
Utility Clearance		Client Approval:	
Serial #	(On-Site Utilities)	Name	Date/Time
Drums on Site: No	Yes	Soil Pile: No	Yes/Size
<b>FIELD ACTIVITY:</b>			
<u>TEST PIT INVESTIGATION</u>			
8:00 ARRIVE ON SITE, MEET WITH LIZ + EARL (CALIFORNIA OPERATOR) ON SILENCE ACTIVITIES			
UPON INSPECTION OF SITE IT WAS OBSERVED THAT THE LANDSCAPE HAS BEEN MODIFIED, A LARGE			
PILE OF SOIL IS ON THE LOCATION OF TP-5, THE LOCATION OF TP-0, TP-8, TP-9 AND TP-12 HAVE BEEN			
REMOVED EXACT LOCATION OF ORIGINAL TEST PITS LANDMARKS ARE NO LONGER THERE, WILL FIND			
BEST PLACE AVAILABLE TO MARK FROM LIZ + RT.			
8:45 BEGIN INVESTIGATION IN AREA OF TP-6			
8:53 SAMPLE TP-1 S-1 (4')			
9:05 SAMPLE TP-2 S-2 (4')			
9:20 SAMPLE TP-3 S-3 (4')			
9:33 SAMPLE TP-4 S-4 (4')			
9:46 SAMPLE TP-5 S-5 (4')			
9:59 SAMPLE TP-6 S-6 (4')			
10:12 SAMPLE TP-7 S-7 (4')			
10:24 SAMPLE TP-8 S-8 (4')			
11:04 SAMPLE TP-9 S-9 (2')			
11:16 SAMPLE TP-10 S-10 (2')			
11:24 SAMPLE TP-11 S-11 (2')			
11:32 SAMPLE TP-12 S-12 (2')			
11:40 SAMPLE TP-13 S-13 (2')			
11:46 SAMPLE TP-14 S-14 (2')			
11:55 SAMPLE TP-15 S-15 (2')			
12:00 SAMPLE TP-16 S-16 (2')			
1:50 SAMPLE TP-17 S-17 (10') GWA AT 10.5 (HEAVY W/ DATA ALSO COLLECT SATURATED SOIL SAMPLE			
Comments:			

Signature: *Paul Hill*

Page 1 of 1

**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

<b>Client:</b> Anderson Construction	<b>Project #:</b> 70431-01	<b>Initials:</b> PL
<b>Job Location:</b> Phil PA	<b>Date:</b> 10/20/03 - 12/03/03 10/20/03	<b>Weather:</b> Sunny
<b>Site Address:</b>		
<b>Equipment:</b>		
<b>Equipment Calibration: Model:</b>		
<b>PID: Gas/Lot#:</b>	<b>Gas ppm=</b>	<b>Instrument ppm=</b>
<b>H &amp; S: Hospital Name:</b>		
<b>Location:</b>	<b>Number:</b>	
<b>Police:</b>	<b>Number:</b>	
<b>Explosive Atmosphere/Conditions:</b>	<b>Yes</b>	<b>No</b>
<b>Utility Clearance</b>	<b>Client Approval:</b>	
<b>Serial #</b>	<b>(On-Site Utilities)</b>	<b>Name</b> <b>Date/Time</b>
<b>Drums on Site:</b> No	<b>Yes</b>	<b>Soil Pile:</b> No <b>Yes/Size</b>

**FIELD ACTIVITY:** TEST PIT INVESTIGATION

2:00 SAMPLE TP-13 S-13 (10') GW AT 10' SHEEN  
10/20/03

7:00 ARRIVE ON SITE BEGIN EXCAVATION

7:00 SAMPLE TP-14 S-14 (11')

8:00 SAMPLE TP-20 S-20 (10.5') GW (11') COLLECT GW SAMPLE 8:25

8:54 SAMPLE TP-21 S-21 (11')

9:44 SAMPLE TP-22 S-22 (10.5') GW 10.5' SHEEN

10:42 SAMPLE TP-23 S-23 (9') GW 9.5'

11:07 SAMPLE TP-24 S-24 (11')

11:54 SAMPLE TP-25 S-25 (13')

12:45 SAMPLE TP-26 S-26 (9.5')

12:50 SAMPLE TP-27 S-27 (9.5')

12:54 SAMPLE TP-28 S-28 (10')

1:50 SAMPLE TP-29 S-29 (9.5')

2:15 SAMPLE TP-30 S-30 (9.5')

2:40 SAMPLE TP-31 S-31 (9')

12/06/03

7:00 ARRIVE ON SITE BEGIN EXCAVATION

7:20 SAMPLE TP-32 S-32 (9')

8:27 SAMPLE TP-33 S-33 (13')

8:56 SAMPLE TP-34 S-34 (12.5')

9:34 SAMPLE TP-35 S-35 (12.5')

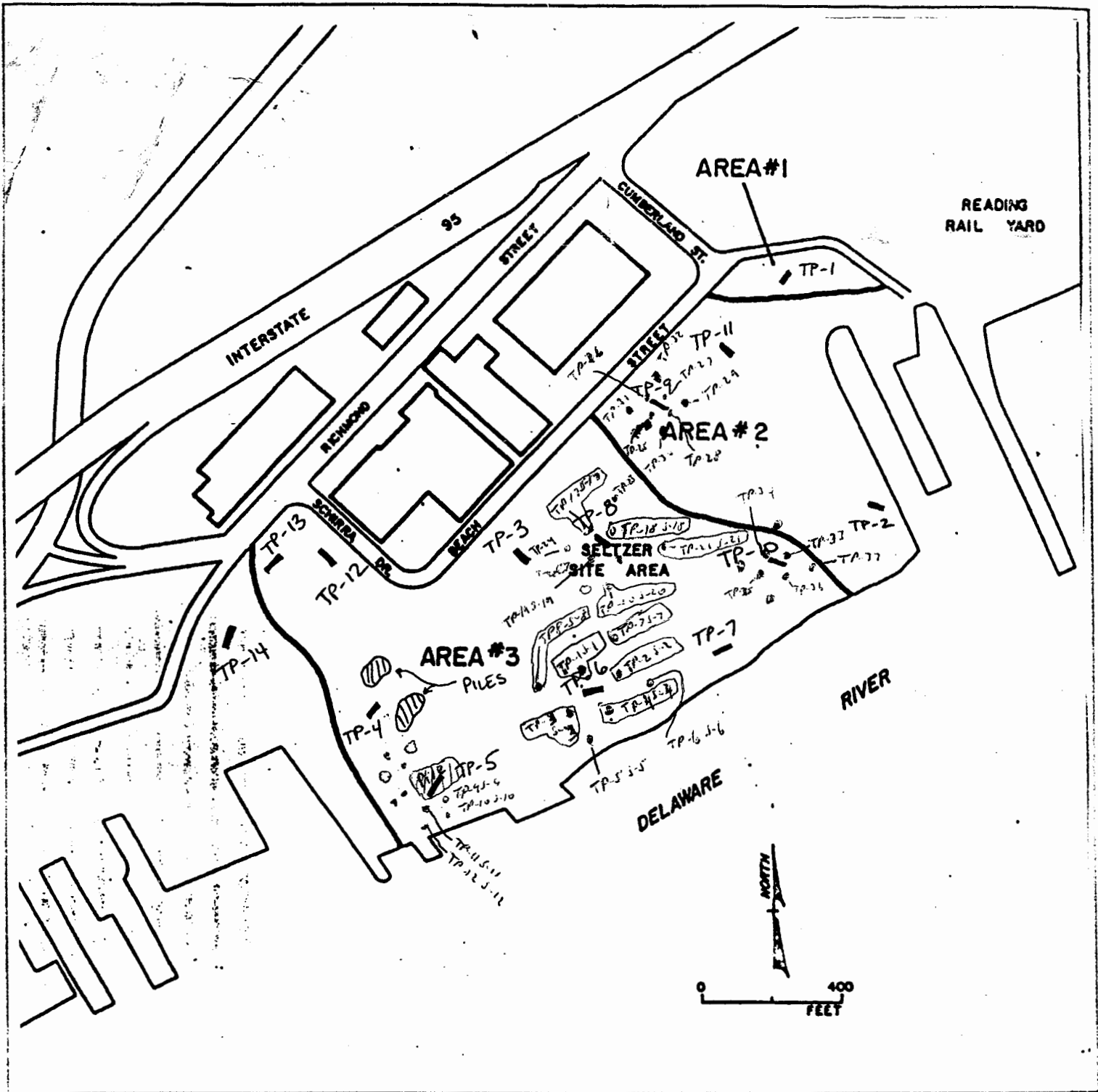
10:22 SAMPLE TP-36 S-36 (12.5')

**Comments:**

Signature: PL







**SOURCE:**

FIGURE BASED ON DRAWING FROM PART I - ENVIRONMENTAL ASSESSMENT REPORT OF PRELIMINARY SUBSURFACE EVALUATION, PREPARED BY GROUNDWATER TECHNOLOGY, MAY 19, 1989

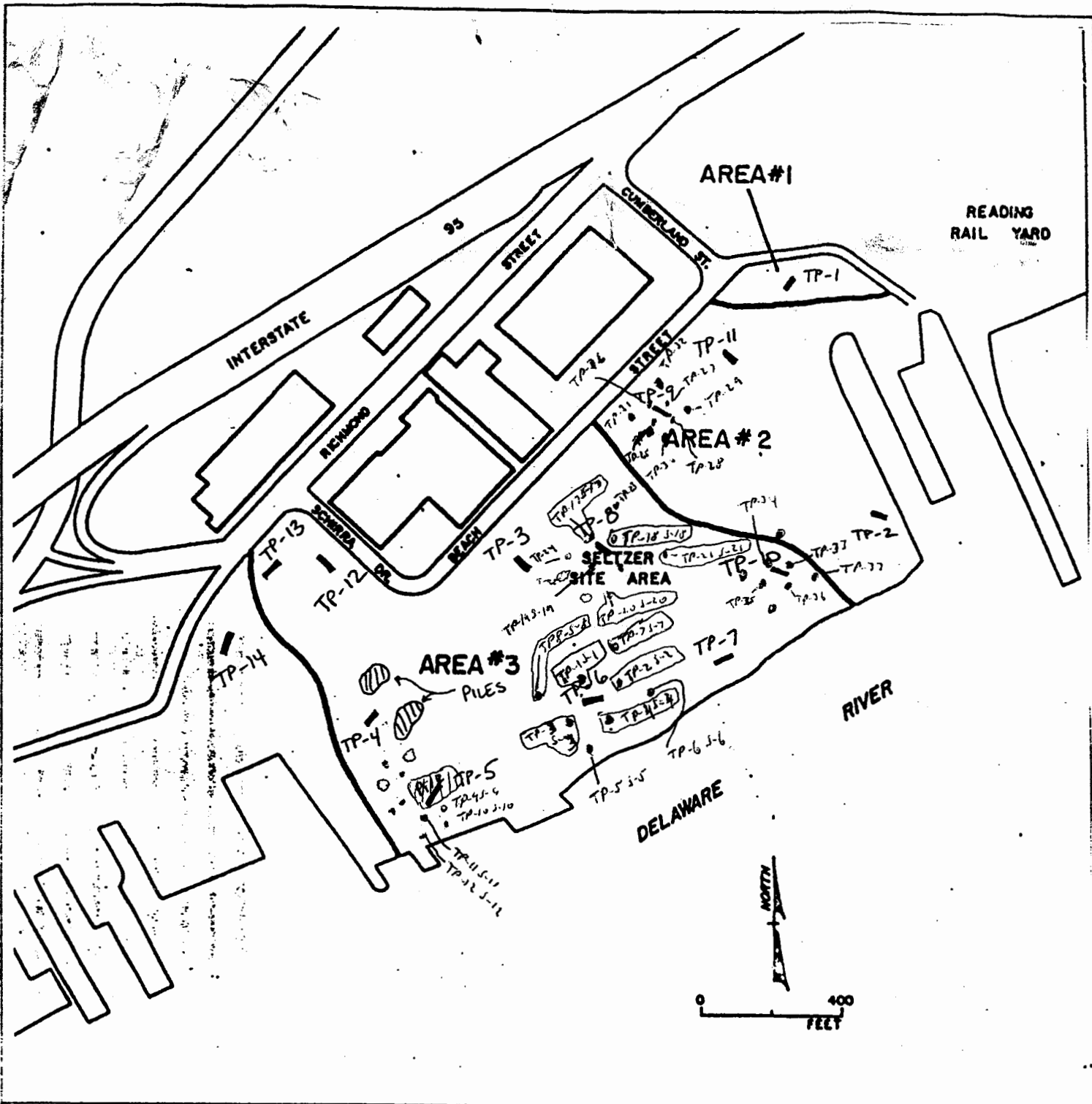
RT Environmental Services, Inc.  
215 West Church Road  
King of Prussia, PA. 19406

**FIGURE 1  
TEST PIT LOCATION MAP**

FORMER CRAMPS SHIPYARD  
PHILADELPHIA, PENNSYLVANIA

Prepared For:  
MEO, RENO & ASSOCIATES, PC  
150 MONUMENT ROAD, SUITE 603  
BALA CYNWYD, PENNSYLVANIA

CHARGE	AUTOCAD FILE 70431-01	ENGINEER	DESIGNER	DRAFTSPERSON PM
SCALE	GRAPHIC NUMBER			REVISION
DATE 7-15-03		704310100		



**SOURCE:**

FIGURE BASED ON DRAWING FROM PART I - ENVIRONMENTAL ASSESSMENT REPORT OF PRELIMINARY SUBSURFACE EVALUATION, PREPARED BY GROUNDWATER TECHNOLOGY, MAY 19, 1989



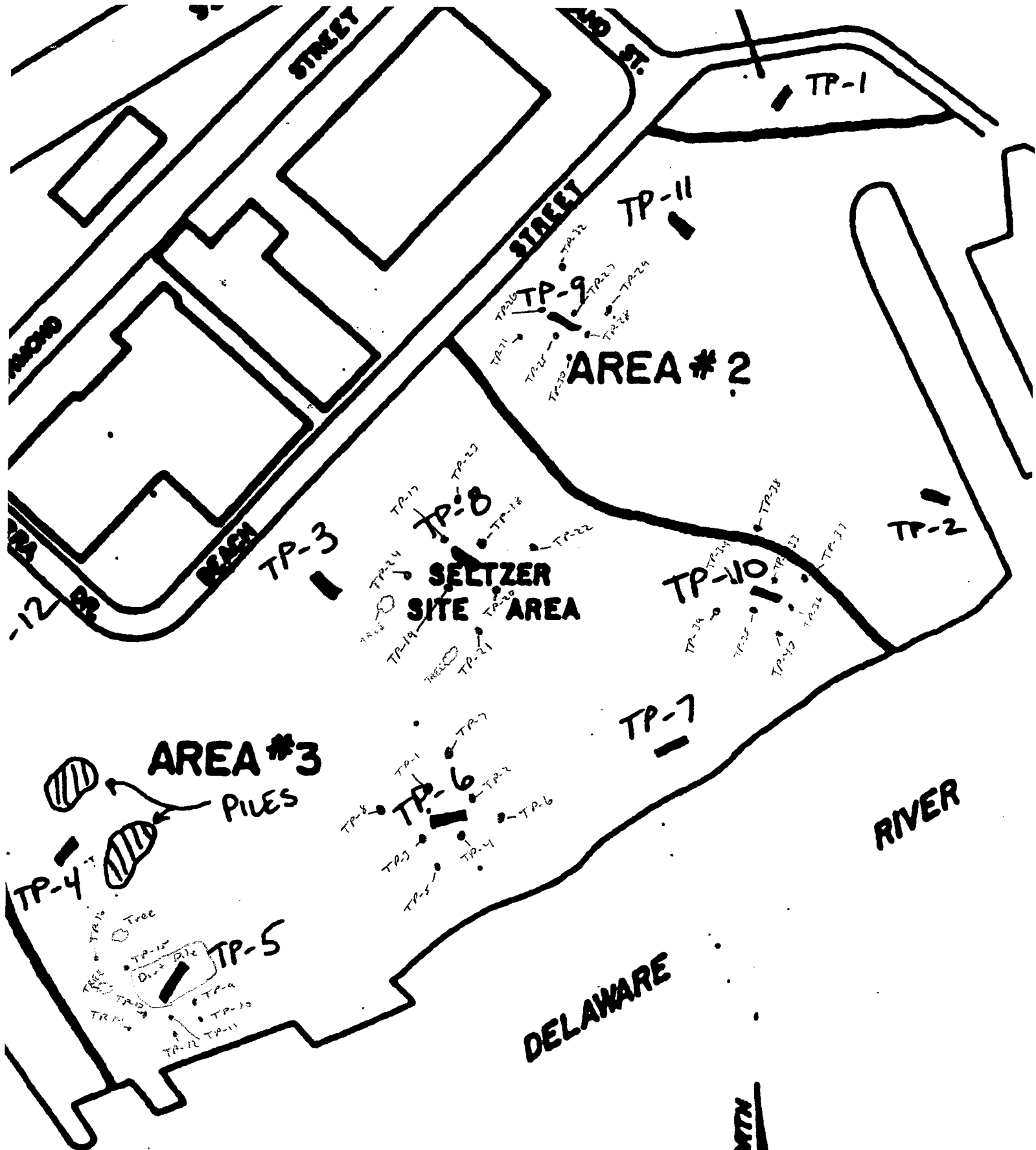
RT Environmental Services, Inc.  
215 West Church Road  
King of Prussia, PA. 19406

**FIGURE 1  
TEST PIT LOCATION MAP**

FORMER CRAMPS SHIPYARD  
PHILADELPHIA, PENNSYLVANIA

Prepared For:  
MEO, RENO & ASSOCIATES, PC  
150 MONUMENT ROAD, SUITE 603  
BALA CYNWYD, PENNSYLVANIA

CHARGE	AUTOCAD FILE 70431-01	DESIGNER	DESIGNER	DRAWN/REVISION PM
SCALE	DRAWING NUMBER	704310100		
DATE	7-15-03			



**AREA #3**

PILES

**SELTZER  
SITE AREA**

**AREA #2**

**RIVER**

**DELAWARE**

**NORTH**

STREET

STREET

MOND

BEACH

TP-1

TP-11

TP-9

TP-3

TP-8

TP-10

TP-2

TP-7

TP-4

TP-6

TP-5

-12

TP-8

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**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: 1	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/10/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recovery (in)	Description	USCS	Remarks
1				0-4 <sup>silty</sup> Brown s.s. with brick, rock + fill materials, black layer at approx 1'		
2						
3						Sample 4'
4						
5						
6						
7						
8						
9						
10						
11						
12						
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24						
25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: 2	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks	
1				<i>0-4 Brown silty soil with black ash bricks, rock &amp; fill material</i>			
2						<i>SAMPLE 4'</i>	
3							
4							
5							
6							
7							
8							
9							
10							
11							
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22							
23							
24							
25							
26							<b>WELL CONSTRUCTION</b>
27							Protective Casing:
28							Concrete:
29							Grout:
30							Bentonite:
31							Sand Pack:
32							Riser:
						Screen:	

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-97	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: <i>3</i>	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: <i>10/1/01</i>	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				<i>0-4 Brown silty soil black layer of soil approx 1', brick rock + fill</i>		
2						<i>Sample 4'</i>
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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30						
31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

RT ENVIRONMENTAL		SOIL BORING/WELL CONSTRUCTION LOG	
Prof. #:	20431-02	Prof. Name:	Example Shipyards
Boring #:	4	Elevation:	
Permit #:		Method:	
Start Date:	10/10/01	End Date:	
Depth (ft)	Sample Type & #	Blows (per ft)	Recovery (in)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
1			0-4 Brown silty soil with gray sub
2			at 2' rock, brick + fill material
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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27			
28			
29			
30			
31			
32			

Sample 41

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

Geologist: P2

Page of

End Date:

Method:

Elevation:

Permit #:

Start Date:

Depth (ft)

Sample Type & #

Blows (per ft)

Recovery (in)

Description

USCS

Remarks

Driller:

**FT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Crampl Shipyard</i>	Geologist: <i>Pi</i>
Boring #: <i>3</i>	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: <i>10/1/01</i>	End Date:	

Depth (ft)	Sample Type & #	Blows (per 5')	Recov-ery (in)	Description	USCS	Remarks
1				<i>off brown soil with brick rock + fill gray ash material at ~ 2 1/2' brown soil to 4'</i>		
2						<i>depth 4'</i>
3						
4						
5						
6						
7						
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24						
25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:



**FT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj #: 70431-02	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: <i>6</i>	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: <i>10/1/01</i>	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				<i>0-2 Brown soil w rock, brick + fill</i>		
2				<i>2' - 4' Brown soil w layer of grey ash</i>		<i>Sample 4'</i>
3				<i>a lot of brick + rock</i>		
4						
5						
6						
7						
8						
9						
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24						
25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:

**RT ENVIRONMENTAL**  
**SOIL BORING/WELL CONSTRUCTION LOG**

Prof. #: 20431-02      Proj. Name: *Camp Shipyard*

Boring #: 7      Method:      End Date: / / 01

Permit #:      Start Date: / / 01

Driller:      Geologist: *P?*

Page of

USCS      Description      Depth (ft)

Remarks      Sample Type & #      Blows Recov- (per 6")      (ft)

1      0-4' *Amber silt soil some brick*                1

2      *+ rock, not as much as previous excavation*                2

3                     3

4                     4

5                     5

6                     6

7                     7

8                     8

9                     9

10                     10

11                     11

12                     12

13                     13

14                     14

15                     15

16                     16

17                     17

18                     18

19                     19

20                     20

21                     21

22                     22

23                     23

24                     24

25                     25

26                     26

27                     27

28                     28

29                     29

30                     30

31                     31

32                     32

WELL CONSTRUCTION

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:



**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02      Proj. Name: *Cramer Shipyard*  
 Boring #: 4      Elevation:  
 Permit #:      Method:      Geologist: *PL*  
 Start Date: 10/1/01      End Date:      Driller:  
 Page of

Depth (ft)	Sample Type & #	Blows (per 6")	Recovery (in)	Description	USCS	Remarks
1				0-2 Dark brown silt w some		
2				brick + mica		Sample 2'
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
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31						
32						

**WELL CONSTRUCTION**  
 Protective Casing:  
 Concrete:  
 Grout:  
 Bentonite:  
 Sand Pack:  
 Riser:  
 Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Cramer Shipyard</i>	Elevation:	Geologist: <i>PL</i>
Boring #: 10	Method:	Driller:	
Permit #:	End Date:	Page of	
Start Date: 10/1/01			

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-2 Dark brown soil glass + brack at 2'		<i>Sample 2'</i>
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**FT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Camp Shipyard</i>	Geologist: <i>PL</i>
Boring #: 11	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 5')	Recovery (in)	Description	USCS	Remarks
1				0-2 Dark to light brown silt some brick material		Sample 2'
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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29						
30						
31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Crampl Shipyard</i>	Geologist: <i>PL</i>
Boring #: 12	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recovery (in)	Description	USCS	Remarks
1				0-2 Dark brown silt same brack + rock		Sample 2'
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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30						
31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:





**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Crampl Shipyard</i>	Geologist: <i>PI</i>
Boring #: 14	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-2 Dark brown soil some brick + concrete		Sample 2'
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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26						
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28						
29						
30						
31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: 15	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/10/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recovery (in)	Description	USCS	Remarks
1				0*2 Dark brown soil w/ industrial wastes, hoses, plastic, metal, rubber cables		
2						<i>Sample 2'</i>
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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27						
28						
29						
30						
31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PI</i>
Boring #: 16	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/10/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 5')	Recov-ery (in)	Description	USCS	Remarks
1				0-2 Dark brown soil with wood metal, plastic, cables + concrete		
2						<i>Sample 2'</i>
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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30						
31						
32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG

Prof. Name: *Camp Shipyards*  
 Boring #: *17*  
 Elevation:  
 Method:  
 End Date: *10/101*  
 Start Date: *10/101*  
 Permit #:  
 USCS  
 Page of  
 Driller:  
 Geologist: *P?*  
 Remarks

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-7 Brown silt with plastic, wood		
2				same back		
3				3-4 light brown sandy silt		
4				4-5 Layer of brick, black soil, rock, concrete, metal,		
5				5-10 Brown + black silt with wood, brick, metal, metal		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						Protective Casing
27						Concrete
28						Grout
29						Bentonite
30						Sand Pack
31						Pier
32						Screen

0-7 Brown silt with plastic, wood  
 same back  
 3-4 light brown sandy silt  
 4-5 Layer of brick, black soil, rock, concrete, metal,  
 5-10 Brown + black silt with wood, brick, metal, metal  
 GW at 10.5 with shear 1 order

Length 10'

**RT ENVIRONMENTAL**

**SOIL BORING/WELL CONSTRUCTION LOG**

Proj. Name: *Camp Shipyards* Boring #: *18* Elevation: *18* Method: *PT* Geologist: *PT* Permit #: *18* Start Date: *10/10/01* End Date: *10/10/01*

Proj. #: *20431-02* Blows Sample: *18* Type & # (per 6")

Depth (ft) Description

1 0-3 Brown silt

2 3-4 Blue/gray brown silt

3 4-10 Fill material black soil w/wood.

4 Snacks, shell, concrete, metal

5 GLW 10' silt & shells

6

7

8

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30

31

32

WELL CONSTRUCTION

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

Remarks

USCS

Page of

Driller:

Geologist: *PT*

**FT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Crampe Shipyard</i>	Geologist: <i>PL</i>
Boring #: 19	Elevation:	Driller:
Permit #:	Method:	End Date:
Start Date: 10/1/01	End Date:	Page of

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-3 Brown silt some brick + concrete		
2				3-11 Brown + black silt w/ industrial		
3				wastes, metal cans, wood, hoses, brick		SAMPLE 11'
4				concrete		
5						
6						
7						
8						
9						
10						
11						
12						
13						
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32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**FT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Crampl Shipyard</i>	Geologist: <i>PL</i>
Boring #: 20	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 5')	Recov-ery (in)	Description	USCS	Remarks
1				0-3 Brown silt with brick, rock + concrete		
2				3-11 Brown + black silt w/ wood, brick, concrete, metal		SAMPLE 10.5'
3						
4				11' h/w color shown		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
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32						

**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: Cramp Shipyard	Geologist: PL
Boring #: 2	Elevation:	Driller:
Permit #:	Method:	End Date:
Start Date: 10/1/01	End Date:	Page of

Depth (ft)	Sample Type & #	Blows (per 6')	Recov-ery (in)	Description	USCS	Remarks
1				0-4 Brown silt + asphalt		
2						
3				4-11 Intermittent railroad ties		
4				asphalt concrete + bricks		Sample 11'
5						
6						
7						
8						
9						
10						
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15						
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19						
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22						
23						
24						
25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:



**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-07	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: 23	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-4 Brown silt with concrete & brick		
2				4-10: Brick, cinder block, large pieces of		
3				concrete, metal, nails, textiles, wood.		
4						
5				GW 10.5 shown		Sample 10.5'
6						
7						
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25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:



**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PL</i>
Boring #: 24	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recovery (in)	Description	USCS	Remarks
1				0-3 Dark brown silt w/brck		
2				3-11 Dark brown soil w/brck, asphalt road, concrete		
3						<i>Sample 11</i>
4						
5						
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**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02      Proj. Name: *Crampl Shipyard*  
 Boring #: 28      Elevation:  
 Permit #:  
 Method:  
 Start Date: 10/1/01      End Date:  
 Geologist: *Pi*  
 Driller:  
 Page of

Depth (ft)	Sample Type & #	Blows (per 5')	Recovery (in)	Description	USCS	Remarks
1				0 - 11.5 Light brown silt, brack, stone,		
2				11.5 - 13 light brown silt, some black silt		
3				with brack, stone, concrete		SAMPLE 13'
4						
5						
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29						
30						
31						
2						<b>WELL CONSTRUCTION</b> Protective Casing: Concrete: Grout: Bentonite: Sand Pack: Riser: Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj #: 70431-02	Proj. Name: <i>Camp Shipyard</i>	Elevation:	Geologist: <i>PL</i>
Boring #: 26	Method:	Driller:	
Permit #:	End Date:	Page of	
Start Date: 10/1/03			

Depth (ft)	Sample Type & #	Blows (per 5')	Recov-ery (in)	Description	USCS	Remarks
1				0-8 Light brown silt, large pieces of concrete, brick & rock		
2						
3				8-10 Light brown & black sandy silt wood		
4				brick		SAMPLE 9.5
5				10 Bedrock wisconsin schist		
6						
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**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70-131-02	Proj. Name: <i>Crampe Shipyard</i>	Geologist: <i>PL</i>
Boring #: 27	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/03	End Date:	

Depth (ft)	Sample Type & #	Blows (per 5')	Recov-ery (in)	Description	USCS	Remarks
1				0-7 Light brown to black silt, brick		
2				rock; concrete		
3				7-10 Green stone w brown sandy silt		
4						
5				10 Bedrock Wissachickon schist		SAMPLE 9.5
6						
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25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj #: 70431-02	Proj. Name: Cramps Shipyard	Geologist: PL
Boring #: 28	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/03	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-2 Dark brown silt, concrete, rock, brick		
2				3-8 Dark brown + black silt		
3				8 Gray sand + stone		
4				12.5 Bedrock Wisconsin schist		SAMPLE 10'
5						
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**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02      Proj. Name: *Cramer Shipyard*  
 Boring #: 29      Elevation:  
 Permit #:  
 Start Date: 10/1/03      End Date:  
 Method:  
 Geologist: *PL*  
 Driller:  
 Page of

Depth (ft)	Sample Type & #	Blows (per 6")	Recovery (in)	Description	USCS	Remarks
1				0-10 Brown + black silt w/ brick, wood rock		
2						
3				15 Bedrock weathered schist.		
4						SAMPLE 9.5
5						
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25						
26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:





**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj #: 70431-07	Proj. Name: <i>Camp Shipyard</i>	Geologist: <i>PL</i>
Boring #: 31	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-7 Brown silt, brick, rock		
2				7 Layer of wood and metal		
3				7-9 Brown to black sandy silt		SAMPLE 9'
4				brick		
5				9' rock		
6						
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**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:



**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02      Proj. Name: *Cramp Shipyard*  
 Boring #: 33      Elevation:  
 Permit #:  
 Method:  
 Start Date: 10/26/01      End Date:  
 Geologist: *PL*  
 Driller:  
 Page of

Depth (ft)	Sample Type & #	Blows (per 5')	Recovery (in)	Description	USCS	Remarks
1				0-9 Brown silt w/ metal cable, concrete		
2				brick, brick, glass		
3				9-17 Brown + black silt w/ brick, metal		SAMPLE <del>18</del> 13'
4				glass		
5				17' Gravelly		
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**WELL CONSTRUCTION**  
 Protective Casing:  
 Concrete:  
 Grout:  
 Bentonite:  
 Sand Pack:  
 Riser:  
 Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj #: 70431-07	Proj. Name: Cramp Shipyard	Geologist: PL
Boring #: 24	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/00/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 5')	Recov-ery (in)	Description	USCS	Remarks
1				0-7 Brown silt w/ metal cable, brick, concrete blake		
2				rubber, textiles, wood		
3						
4				7-12.5 Black sandy silt, clay, metal, brick		(12.5)
5				concrete, wood, rubber hoses		
6						
7						
8						
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**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Cramer Shipyard</i>	Geologist: <i>PI</i>
Boring #: 75	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0 - 9.5 Brown silt w/brack, rock, concrete rubber, hoses, metal		
2						
3				9.5 - 12.5 Brown silt with a lot of concrete + brack		<i>12.5</i>
4						
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26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: Cramp Shipyard	Geologist: PL
Boring #: 36	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-9 Brown silt with large concrete pieces, brick, wood, tires, metal		
2						
3				9-12.5 Black sandy silt w/ brick, wood, concrete		SAMPLE 12.5
4						
5						
6						
7						
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26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Riser:
						Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70431-02	Proj. Name: <i>Crampl Shipyard</i>	Geologist: <i>PL</i>
Boring #: 37	Elevation:	Driller:
Permit #:	Method:	Page of
Start Date: 10/1/01	End Date:	

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-11 Brown silt, concrete rebar, brick		
2				11-12 Gray sandy silt, brick, concrete		
3						<i>BRP-C (11')</i>
4						
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**WELL CONSTRUCTION**

Protective Casing:

Concrete:

Grout:

Bentonite:

Sand Pack:

Riser:

Screen:



**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70-131-02      Proj. Name: *Camp Shipyard*  
 Boring #: 38      Elevation:  
 Permit #:      Method:      Geologist: *PC*  
 Start Date: 10/1/03      End Date:      Driller:  
 Page of

Depth (ft)	Sample Type & #	Blows (per 5')	Recovery (in)	Description	USCS	Remarks
1				0-3 Brown silt, brick, concrete, metal		
2				3-12.5 Brown + black silt w/ wood, concrete		
3				brick		SAMPLE 12.5
4				GW ≈ 12.5		
5						
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**WELL CONSTRUCTION**  
 Protective Casing:  
 Concrete:  
 Grout:  
 Bentonite:  
 Sand Pack:  
 Riser:  
 Screen:

**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70-131-02      Proj. Name: *Camp Shipyard*  
 Boring #: 38      Elevation:  
 Permit #:      Method:      Geologist: *PL*  
 Start Date: 10/1/03      End Date:      Driller:  
 Page of

Depth (ft)	Sample Type & #	Blows (per 5')	Recovery (in)	Description	USCS	Remarks
1				0-3 Brown silt, brick, concrete, metal		
2				3-12.5 Brown + black silt w/ wood, concrete		
3				brick		SAMPLE 12.5
4				GW ≈ 12.5		
5						
6						
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**WELL CONSTRUCTION**  
 Protective Casing:  
 Concrete:  
 Grout:  
 Bentonite:  
 Sand Pack:  
 Riser:  
 Screen:



**RT ENVIRONMENTAL  
SOIL BORING/WELL CONSTRUCTION LOG**

Proj. #: 70-131-02	Proj. Name: <i>Crampe Shipyard</i>	Elevation:	Geologist: <i>PC</i>
Boring #: 40	Elevation:	Method:	Driller:
Permit #:	Method:	End Date:	Page of
Start Date: 10/1/03	End Date:		

Depth (ft)	Sample Type & #	Blows (per 6")	Recov-ery (in)	Description	USCS	Remarks
1				0-4 Brown silt, brick, concrete		
2				4-13 Black + Brown silt, brick wood, concrete CW ≈ 13'		
3						SAMPLE 13'
4						
5						
6						
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26						<b>WELL CONSTRUCTION</b>
27						Protective Casing:
28						Concrete:
29						Grout:
30						Bentonite:
31						Sand Pack:
32						Filter:
						Screen:



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <i>Environmental</i>	Bill To: <i>State</i>	TAT: <del>Standard</del> <u>5 DAY</u> 3 DAY    1 DAY 4 DAY    2 DAY    < 24 HRS.
Address: <i>2000...</i>	Address:	DATE RESULTS NEEDED:
Report to: <i>...</i>	Phone #: (610) <i>260-1100</i> Fax #: ( )	State & Program: <i>PA DEP</i>
Phone #: ( ) Fax #: ( )		SHIPPING#:

Project:	Sampler:	PO/Quote #:	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
							MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED-BROKEN	IMPROPERLY SEALED		GOOD CONDITION
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						
			PID:									X	X						

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
DATE	DATE	DATE	DATE
TIME	TIME	TIME	TIME

COMMENTS:

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PAGE 1 OF 2



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <u>RTI</u>		Bill To: <u>RTI</u>		TAT: <del>Standard</del> <u>5-DAY</u> 3 DAY    1 DAY																
Address: <u>RTI</u>		Address:		4 DAY    2 DAY    < 24 HRS.																
Report to: <u>P. M. J. H.</u>		Phone #: (412) <u>261-1111</u>		DATE RESULTS NEEDED:																
Fax #: ( )		State & Program: <u>PA DEP</u>		TEMPERATURE UPON RECEIPT:																
Phone #: ( )		Fax #: ( )		SHIPPING#:																
Project: <u>Water Sampling</u>		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX		# of Bottles Preservative Used					TOTAL # OF BOTTLES		ANALYSIS TYPE		SAMPLE CONTROL			LABORATORY ID NUMBER
Sampler: <u>PL</u>								MeOH	NaHSO4	HCl	HNO3	H2SO4					NaOH	NONE	CRACKED-BROKEN	
PO/Quote #: <u>7247-02-01</u>		FIELD ID, LOCATION																		
1	<u>TR-10-10-8</u>	<u>10/10/08</u>	<u>11:40</u>	<u>Soil</u>																
	PID: <u>101010</u>																			
2	<u>TR-10-10-8</u>		<u>11:45</u>																	
	PID: <u>101010</u>																			
3	<u>TR-10-10-8</u>		<u>11:50</u>																	
	PID: <u>101010</u>																			
4	<u>TR-10-10-8</u>		<u>12:00</u>																	
	PID: <u>101010</u>																			
5	<u>TR-10-10-8</u>		<u>12:05</u>																	
	PID: <u>101010</u>																			
6	<u>TR-10-10-8</u>		<u>12:10</u>																	
	PID: <u>101010</u>																			
7	<u>TR-10-10-8</u>		<u>12:15</u>																	
	PID: <u>101010</u>																			
8	<u>TR-10-10-8</u>		<u>12:20</u>																	
	PID: <u>101010</u>																			
9	<u>TR-10-10-8</u>		<u>12:25</u>																	
	PID: <u>101010</u>																			
10	<u>TR-10-10-8</u>		<u>12:30</u>																	
	PID: <u>101010</u>																			
RELINQUISHED		DATE	RECEIVED		DATE	RELINQUISHED		DATE	RECEIVED		DATE	RELINQUISHED		DATE	RECEIVED		DATE	RELINQUISHED		DATE
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		TIME			TIME			TIME			TIME			TIME			TIME			TIME
COMMENTS:																				
PAGE <u>2</u> OF <u>2</u>																				



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <i>RT Env</i>	Bill To: <i>Same</i>	TAT: Standard <i>5 DAY</i> 3 DAY    1 DAY 4 DAY    2 DAY    < 24 HRS.
Address: <i>KOP</i>	Address:	DATE RESULTS NEEDED:
Report to: <i>F. Miller</i>	Phone #: ( ) Fax #: ( )	State & Program: <i>PA/DCP</i>
	Phone #: ( ) Fax #: ( )	SHIPPING#:

Project:	Sampler:	PO/Quote #:	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
							MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED/BROKEN	IMPROPERLY SEALED		GOOD CONDITION
<i>1</i>	<i>2</i>	<i>3</i>	<i>TP-100 6-1</i>	<i>10/10/03</i>	<i>8:00</i>	<i>CW</i>			<i>3</i>				<i>2</i>	<i>6</i>					
	PID:																		
<i>2</i>	<i>4</i>	<i>5</i>	<i>TP-100 2-10A</i>	<i>10/10/03</i>	<i>8:00</i>	<i>Soil</i>			<i>12</i>				<i>1</i>	<i>4</i>					
	PID:																		
<i>3</i>	<i>6</i>	<i>7</i>	<i>TP-100 2-10A</i>	<i>10/10/03</i>	<i>7:00</i>	<i>Soil</i>			<i>12</i>				<i>1</i>	<i>4</i>					
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<i>9</i>																			
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<i>10</i>																			
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RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>Same</i>		<i>10/10/03</i>	<i>8:00</i>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
-	TIME		TIME		TIME		TIME

COMMENTS: *Will then send for dioxin analysis. Analysis to be delivered.*

PAGE      OF 1



# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <i>NTL</i>	Bill To: <i>...</i>	TAT: Standard .5 DAY, 3 DAY, 1 DAY 4 DAY, 2 DAY, < 24 HRS.
Address: <i>...</i>	Address:	DATE RESULTS NEEDED:
Report to: <i>...</i>	State & Program: <i>PA DEP</i>	TEMPERATURE UPON RECEIPT:
Phone #: ( ) Fax #: ( )	Phone #: ( ) Fax #: ( )	SHIPPING#:

Project: <i>...</i>	Sampler: <i>P1</i>	PO/Quote #: <i>...</i>	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER	
							MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED-BROKEN	IMPROPERLY SEALED		GOOD CONDITION
1	PID: <i>...</i>																		
2	PID: <i>...</i>																		
3	PID: <i>...</i>																		
4	PID: <i>...</i>																		
5	PID: <i>...</i>																		
6	PID: <i>...</i>																		
7	PID: <i>...</i>																		
8	PID: <i>...</i>																		
9	PID: <i>...</i>																		
10	PID: <i>...</i>																		

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME





# CHAIN OF CUSTODY REPORT

1008 W. Ninth Ave.  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: <u>RT SW</u>	Bill To: <u>Sum</u>	TAT: Standard	5 DAY	3 DAY	1 DAY
Address: <u>Asp</u>	Address:	4 DAY    2 DAY    < 24 HRS.			
Report to: <u>11/10/10</u>	Phone #: ( )	State & Program: <u>PA DEP</u>	Phone #: ( )	DATE RESULTS NEEDED:	
	Fax #: ( )		Fax #: ( )	TEMPERATURE UPON RECEIPT:	
			SHIPPING#:		

Project:	Sampler:	PO/Quote #:	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER		
							MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH			NONE	CRACKED-BROKEN	IMPROPERLY SEALED		GOOD CONDITION	
			1	11/10/10	10:30	Soil							1							
			PID:																	
			2	11/10/10	11:00	Soil							1							
			PID:																	
			3	11/10/10	11:22	Soil							1							
			PID:																	
			4	11/10/10	11:40	Soil							1							
			PID:																	
			5	11/10/10	11:54	Soil							1							
			PID:																	
			6	11/10/10	12:00	Soil							1							
			PID:																	
			7	11/10/10	12:10	Soil							1							
			PID:																	
			8	11/10/10	12:11	Soil							1							
			PID:																	
			9	11/10/10	12:11	Soil							1							
			PID:																	
			10	11/10/10	12:15	Soil							1							
			PID:																	

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

Client: Anderson - Drott St.		Project #: 70588-09	Initials: TB
Job Location: Phila, PA		Date: 7/5/06	Weather: Rain TO
Site Address:			
Equipment:			
Equipment Calibration: Model:			
PID: Gas/Lot#:		Gas ppm=	Instrument ppm=
H & S: Hospital Name:			
Location:		Number:	
Police:		Number:	
Explosive Atmosphere/Conditions:			Yes No
Utility Clearance		Client Approval:	
Serial #	(On-Site Utilities)	Name	Date/Time
Drums on Site: No	Yes	Soil Pile: No	Yes/Size

**FIELD ACTIVITY:** Test Pit Investigation

7<sup>00</sup> RT onsite

Dig small trench on Columbus Blvd. → find fill, nothing unusual (No sample collected)

Begin test pits on Drott St.

TP-1 (see map) find fill (brick, concrete, coal ash, debris) w/ petro odor at 5' bgs (PID not working because of Rain)  
→ gw observed at 8' bgs, sample collected (TP-1(8))

TP-2 - same as TP-1 (fill material) w/ strong petro odor at 10' → gw at 10' bgs ? sample collected (TP-2(10))

TP-3 - same fill material down to 5' bgs where gw is observed (No petro odor) sample collected (TP-3(5))

TP-4 - same fill material and debris to gw at 4' bgs (No petro odor) sample collected (TP-4(4))

TP-5 - same fill material to gw at 5' bgs w/ a lot of debris (trash) sample collected (TP-5(5))

TP-6 - same fill material w/ a lot of rebar ? concrete down to 3' bgs → gw at 5' sample collected (TP-6(5))

TP-7 - same fill material as before w/ first petro odor to gw at 7' bgs - sample collected (TP-7(7))

TP-8 - same fill material w/ strong petro odor down to 9' bgs at gw → a lot of garbage ? municipal debris  
→ sample collected at 9' (TP-8(9))

TP-9 same fill material w/ a stone ? tan road at 3' bgs - a lot of debris ? garbage to gw at 12' bgs  
→ sample collected at 12' (TP-9(12))

TP-10 same fill material down to 12' bgs at gw → not as much debris (No petro odor) sampled (TP-10(12))

TP-11 same fill material w/ considerable amount of garbage (debris) to gw at 12' bgs sampled (TP-11(12))

TP-12 same fill material w/ a lot of concrete ? stone (No petro odor) to gw at 12' bgs sampled (TP-12(12))

TP-13 same fill material w/ some concrete ? debris to gw at 11' bgs sampled (TP-13(11))

→ No petroleum product observed in any test pits  
- samples taken to laboratory

3<sup>45</sup> RT off site

Comments:



Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>Donovan / Chen</b>		State & Program: <b>PADEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>Donovan / Chen</b>		Phone #: ( )		Temp. Upon Receipt:	
Phone #: ( )		Fax #: ( )		If Yes, please explain:	

Project Name: <b>Dyott St.</b>	Project #/PO#: <b>70588-09</b>	Sampler: <b>Donovan</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES DELIVERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	PP-Metals	PAHs	PCBs	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE							CRACKED	BROKEN	
1 TP-1 (8)	PID:		7/5	745	Soil	#	#					1	1	X	X	X					
2 TP-2 (10)	PID:			820																	
3 TP-3 (5)	PID:			845																	
4 TP-4 (4)	PID:			920																	
5 TP-5 (5)	PID:			930																	
6 TP-6 (5)	PID:			955																	
7 TP-7 (7)	PID:			1045																	
8 TP-8 (9)	PID:			1045																	
9 TP-9 (12)	PID:			1125																	
10 TP-10 (12)	PID:			1150																	

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>		<i>[Signature]</i>					
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS: **Keep TP-7(7), TP-10(12), TP-12(12) on Hold**

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>Donovan/Cierr</b>		State & Program: <b>DADEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>Donovan/Cierr</b>		Phone #: ( )		Temp. Upon Receipt:	
Phone #: ( )		Fax #: ( )		If Yes, please explain:	

Project Name: <b>Loveland</b>	Project #/PO#: <b>7058-09</b>	Sampler: <b>Donovan</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES PREPARED <input type="checkbox"/> YES <input type="checkbox"/> NO	PP-Metals	PAHs	PCBs	Full VOCs	Distillate	SIS	PE	SAMPLE CONTROL		LABORATORY ID NUMBER					
						MeOH	H2SO4	HCl	HNO3	H2SO4	NaOH	NONE										CRACKED/BROKEN	IMPROPERLY SEALED						
1	TP-11 (12)	PID:	7/5	1200	Soil							1	1	X	X	X													
2	TP-12 (12)	PID:	↓	1200	↓							1	1	X	X	X													
3	TA-B(11)	PID:	↓	1315	↓							1	1	X	X	X													
4		PID:																											
5		PID:																											
6	UST → Columbus Blvd.	PID:	7/6	1400	H2O		3					2	5				X	X											
7		PID:																											
8		PID:																											
9		PID:																											
10		PID:																											

RELINQUISHED	DATE	RECEIVED	RELINQUISHED	DATE	RECEIVED
	TIME	<i>[Signature]</i>		TIME	TIME
RELINQUISHED	DATE	RECEIVED	RELINQUISHED	DATE	RECEIVED
	TIME	<i>[Signature]</i>		TIME	TIME

COMMENTS: **Keep TP-7(7), TP-10(12), TP-12(12) on Hold**  
**UST is from Columbus Blvd Parcel → please Analyze ASAP**



**RT ENVIRONMENTAL SERVICES, INC.**  
**FIELD ACTIVITY LOG**

<b>Client:</b>	<b>Project #:</b>	<b>Initials:</b>
<b>Job Location:</b>	<b>Date:</b>	<b>Weather:</b>
<b>Site Address:</b>		
<b>Equipment:</b>		

**FIELD ACTIVITY:**

TP-100  
In former TP-5(1)  
Brown soil w/ Brick & Concrete  
Sampled at 1-1.5' TP-100(1)  
                  3-3.5' TP-100(3)  
                  6-6.5' TP-100(6)  
GWL at 6.5'  
Some fill material at 3-4'  
Metal: some rock

TP-101  
In former TP-4  
Brown soil w/ black fill  
Metal: concrete throughout  
Sampled at 1.5-2' TP-101(2)  
                  3.5-4' TP-101(4)  
                  5.5-6' TP-101(6)  
GWL at 6'

TP-102  
Brown soil w/ fill material throughout  
Blue substance at 2-2.5'  
Sampled at 2-2.5' TP-102(2)  
                  5-5.5' TP-102(5)  
GWL at 6'

TP-103  
Black fill 0-5'  
Concrete, glass, brick  
Sampled at 1.5-2' TP-103(2)  
                  5.5-6' TP-103(6)  
GWL at 5.5'

TP-104  
Concrete, municipal waste  
brick, coal ash throughout  
Sampled at 1-1.5' TP-104(1)  
                  3-3.5' TP-104(3)  
                  5-5.5' TP-104(5)  
GWL at 6'

TP-105  
Same fill throughout  
Blue-green (dark) clay soil at 4-6'  
Sampled at 1.5-2' TP-105(2)  
                  5.5-6' TP-105(6)  
GWL at 6'

TP-106  
Coal Ash-concrete, brick  
waste materials, lumber  
Some clay soils at 3'  
Sampled at 1-1.5' TP-106(1)  
                  3-3.5' TP-106(3)  
                  5-5.5' TP-106(5)  
GWL at 6'

TP-107  
Fill material - some  
white substance w/ slag  
at 5-6'  
Sampled at 2-2.5' TP-107(2)  
                  5-5.5' TP-107(5)  
GWL at 6'

TP-108  
Fill Material 0-8'  
8'-12' Petroleum odor  
stained clay soil (black)  
↳ No fill No PID  
No GWL at 12' - stop digging  
Sampled at 1-1.5' TP-108(1)  
                  4-4.5' TP-108(4)  
                  6-6.5' TP-108(6)  
                  12-12.5' TP-108(12)

**Comments:**

Signature: \_\_\_\_\_

Page \_\_\_\_\_

of \_\_\_\_\_

RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG

Client:	Project #:	Initials:
Job Location:	Date:	Weather:
Site Address:		
Equipment:		

**FIELD ACTIVITY:**

TP-109  
Normal fill throughout  
layer of crushed glass at 3'  
Sampled at 1.5-2' TP-109(2)  
4-4.5' TP-109(4)  
6-6.5' TP-109(6)  
  
GW at 7.5'

TP-110  
Fill Throughout  
crushed glass at 4'  
Sampled at 1-1.5' TP-110(1)  
3-3.5' TP-110(3)  
6-6.5' TP-110(6)  
  
GW at 7.5'

Comments:

Signature: \_\_\_\_\_

Page \_\_\_\_\_

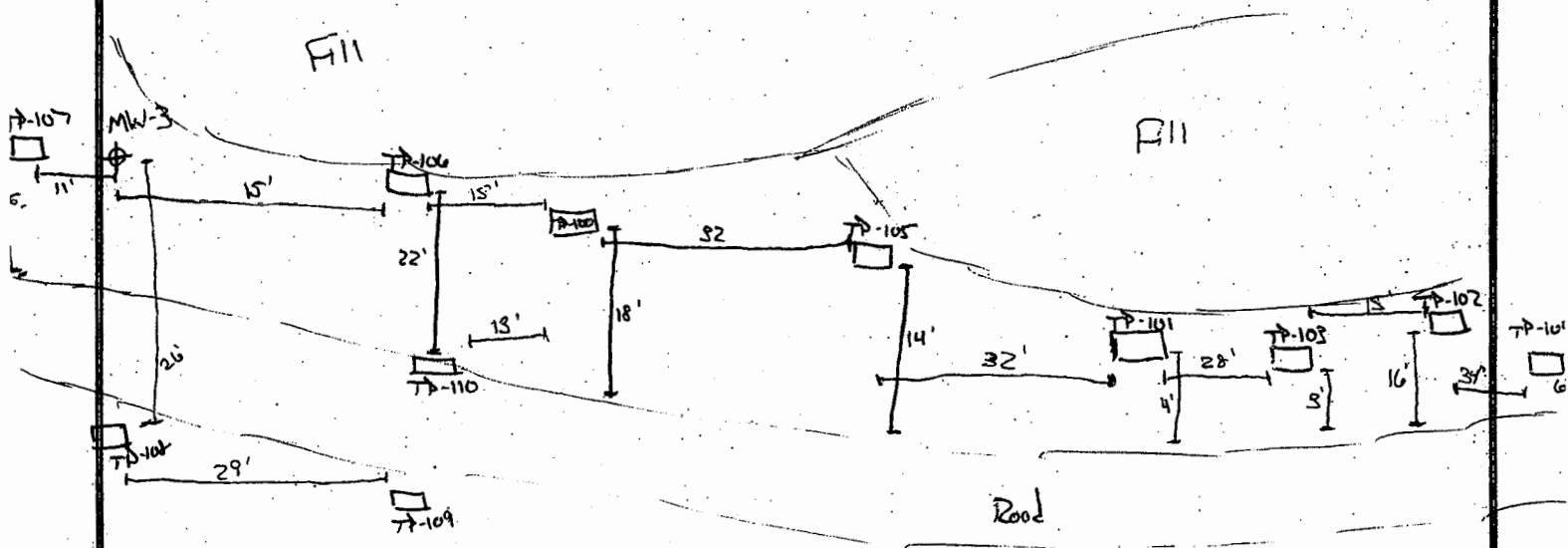
of \_\_\_\_\_



**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

<b>Client:</b>	<b>Project #:</b>	<b>Initials:</b>
<b>Job Location:</b>	<b>Date:</b>	<b>Weather:</b>
<b>Site Address:</b>		
<b>Equipment:</b>		

**FIELD ACTIVITY:**



**Comments:**

**RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG**

<b>Client:</b>	<b>Project #:</b>	<b>Initials:</b>
<b>Job Location:</b>	<b>Date:</b>	<b>Weather:</b>
<b>Site Address:</b>		
<b>Equipment:</b>		

**FIELD ACTIVITY:**

TP-111 In area of forms TP-10  
 Fill material throughout  
 Gray ash: rock 8'-12'  
 No GW down to 12'  
 Sampled at 1.5-2' TP-111(2)  
 8<sup>00</sup> 4-4.5' TP-111(4)  
 6-6.5' TP-111(6)  
 11-11.5' TP-111(11)

TP-112  
 Fill - Gray ash w/ rock 7'-12'  
 GW at 12.5'  
 Sampled at 1-1.5' TP-112(1)  
 9<sup>00</sup> 3-3.5' TP-112(3)  
 5-5.5' TP-112(5)  
 12-12.5' TP-112(12)  
 Lots of concrete: granite curbs  
 Brick, metal pipes

TP-113  
 Fill - Large pieces of concrete 3-7'  
 Black to gray ash 5'-8'  
 Sampled at 1.5-2' TP-113(2)  
 10<sup>15</sup> 5.5-6' TP-113(6)  
 10-10.5' TP-113(10)  
 GW at 12'

TP-114  
 Fill - metal - concrete, ash  
 Large pieces of brick  
 Petroleum (separate phase) at 11'-12'  
 No PID  
 Sampled at 1.5-2' TP-114(2)  
 12<sup>00</sup> 5-5.5' TP-114(5)  
 9.5-10' TP-114(10)  
 11.5-12' TP-114(12)  
 GW at 12.5'

TP-115  
 Fill - Large piece of concrete at 9-10'  
 Black coal ash w/ brick  
 Sampled at 1-1.5' TP-115(1)  
 12<sup>00</sup> 6-6.5' TP-115(6)  
 10.5-11' TP-115(10)  
 GW at 11.5'

TP-116  
 Fill - Layer of scrap metal: municipal waste  
 at 5-6'  
 Concrete, rebar, brick  
 Sampled at 1.5-2' TP-116(2)  
 13<sup>10</sup> 4.5-5' TP-116(5)  
 10.5-11' TP-116(11)  
 GW at 11'

TP-117 <sup>1400</sup>  
 Fill - Not as much concrete  
 brick, pipes, waste  
 Sampled at 1-1.5' TP-117(1)  
 3-3.5' TP-117(3)  
 6-6.5' TP-117(6)  
 10-10.5' TP-117(10)  
 GW at 11.5'

**Comments:**

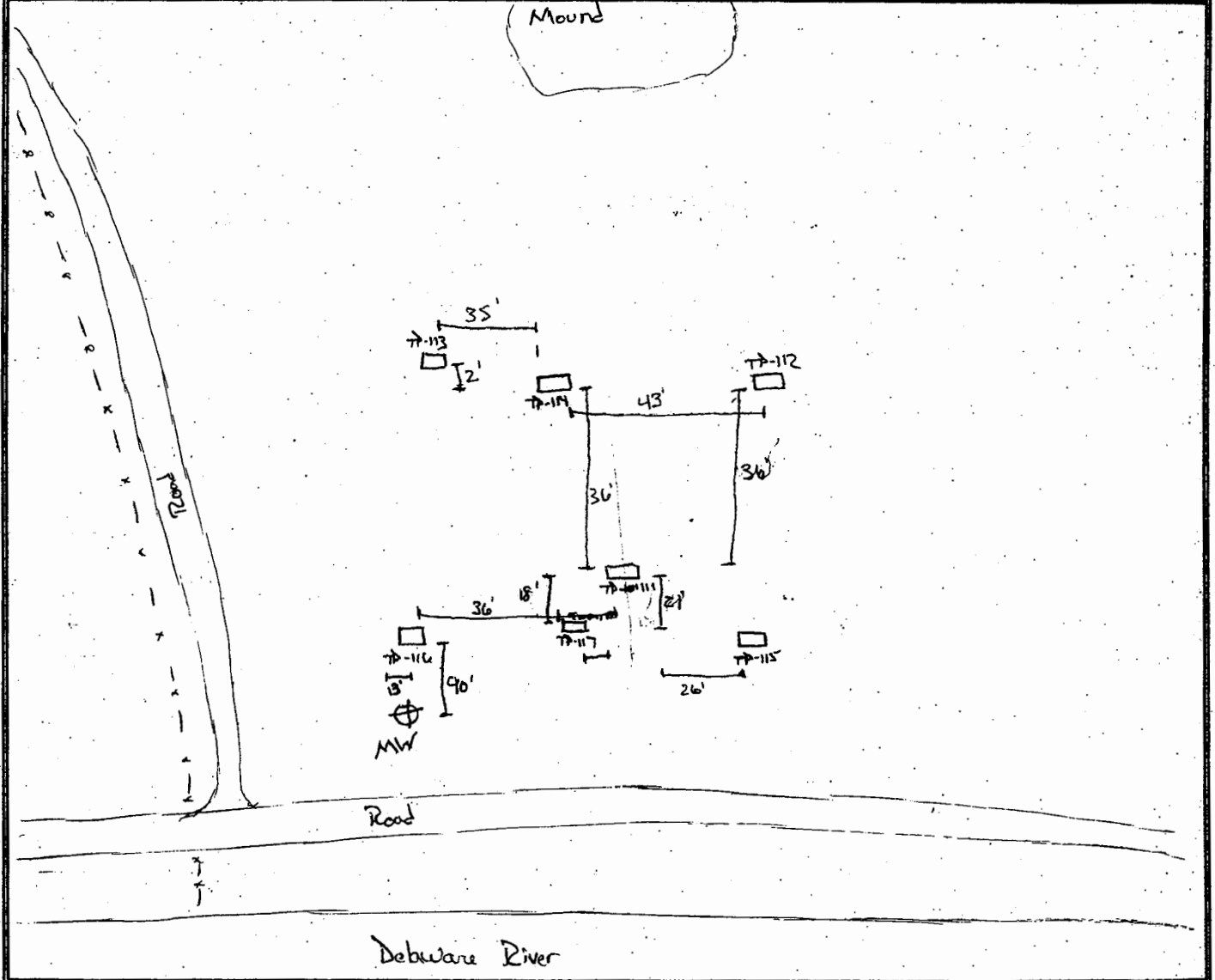
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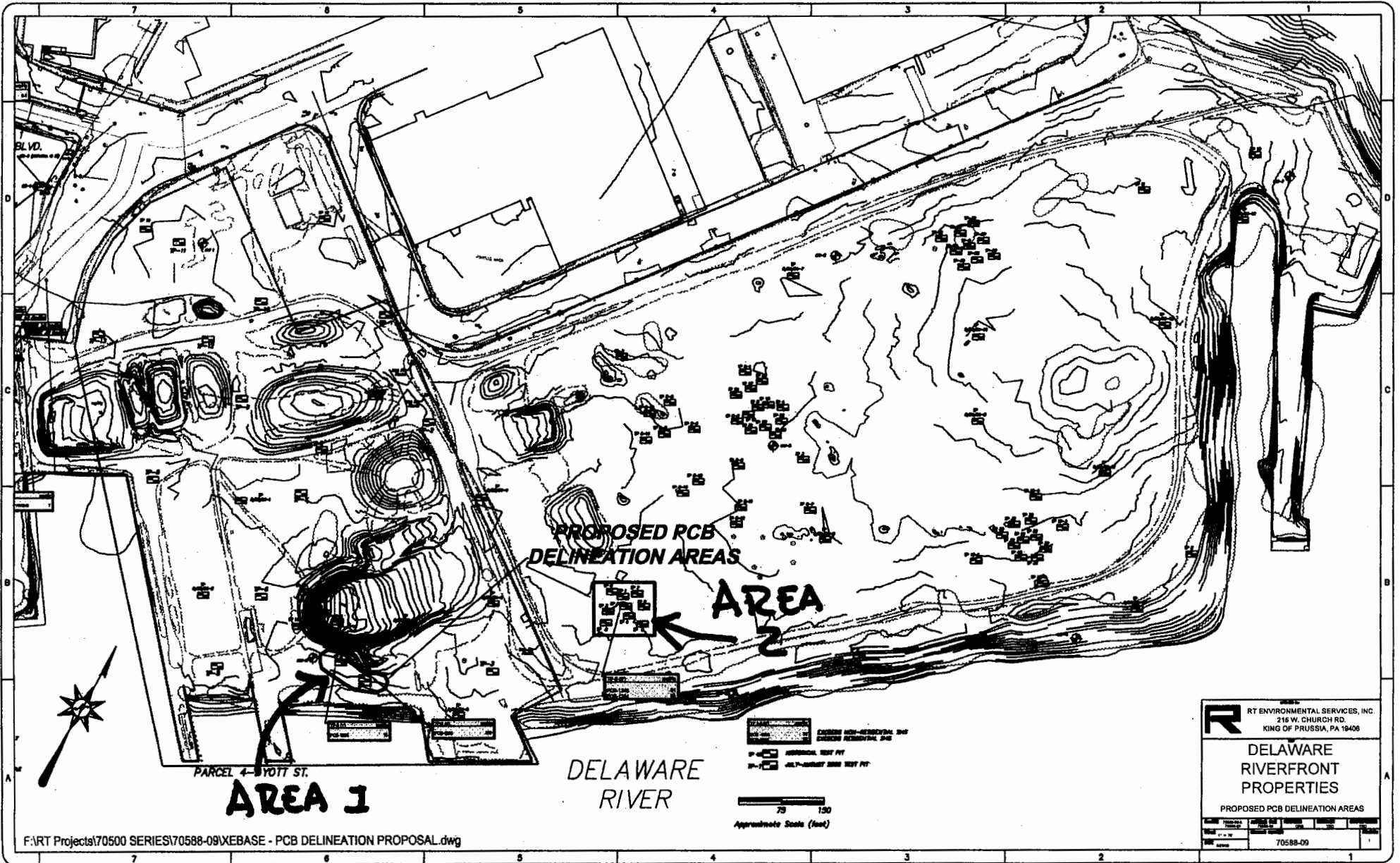
of \_\_\_\_\_

RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG

Client:	Project #:	Initials:
Job Location:	Date:	Weather:
Site Address:		
Equipment:		
<b>FIELD ACTIVITY:</b>		



Comments:



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>Cherr / Donovan</b>		State & Program: <b>VA DEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>Cherr / Donovan</b>		Phone #: ( )		Temp. Upon Receipt:	
Fax #: ( )		Phone #: ( )		If Yes, please explain:	
Fax #: ( )		Phone #: ( )			

Project Name: <b>Riverport PCB</b>	Project #/PO#: <b>70588-10-</b>	Sampler: <b>TA</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE					
1	TP-100(6)	PID:	5/23	7 <sup>55</sup>	Soil						1	1	X				
2	TP-100(3)	PID:		8 <sup>00</sup>													
3	TP-100(1)	PID:		7 <sup>50</sup>													
4	TP-101(2)	PID:		8 <sup>20</sup>													
5	TP-101(4)	PID:		8 <sup>25</sup>													
6	TP-101(6)	PID:		8 <sup>40</sup>													
7	TP-102(7)	PID:		9 <sup>00</sup>													
8	TP-102(5)	PID:		9 <sup>05</sup>													
9	TP-103(2)	PID:		9 <sup>35</sup>													
10	TP-103(6)	PID:		9 <sup>30</sup>													

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME	<b>7:55</b>	<b>3/10/07</b>		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS:

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH / TD		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH / TD		Phone #: ( )		Temp. Upon Receipt:	
Fax #: ( )		Phone #: ( )		If Yes, please explain:	
Fax #: ( )		Phone #: ( )		If Yes, please explain:	

Project Name: Riverfront PCB	Project #/PO#: 70588-10-	Sampler: TD	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES REID/FILTERED	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE					
1] → 104(1)	PID:		5/23	9:45	SOIL							11	X				
2] → 104(3)	PID:			9:50													
3] → 104(5)	PID:			9:55													
4] → 105(2)	PID:			10:05													
5] → 105(6)	PID:			10:10													
6] → 106(1)	PID:			10:30													
7] → 106(3)	PID:			10:35													
8] → 106(5)	PID:			10:40													
9] → 107(2)	PID:			11:00													
10] → 107(5)	PID:			11:05													

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
[Signature]	5/23/07	[Signature]	5/23/07				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: Hold

PAGE OF

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/TP</b>		Phone #: ( )		State & Program: <b>PA DEP</b>	
E-mail: <b>CH/TP</b>		Fax #: ( )		Phone #: ( )	
				Fax #: ( )	
If Yes, please explain:					

Project Name: <b>Riverfront PCP</b>	Project #/PO#: <b>70588-10</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SMARTS RED FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL CRACKED/BROKEN IMPROPERLY SEALED	LABORATORY ID NUMBER
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE					
1] <b>TP-107(2)</b>	PID:		<b>5/22</b>	<b>1100</b>	<b>SOIL</b>							<b>11</b>	<b>X</b>				
2] <b>TP-107(5)</b>	PID:			<b>1105</b>													
3] <b>TP-108(1)</b>	PID:			<b>1120</b>													
4] <b>TP-108(4)</b>	PID:			<b>1125</b>													
5] <b>TP-108(6)</b>	PID:			<b>1130</b>													
6] <b>TP-108(12)</b>	PID:			<b>1135</b>													
7] <b>TP-109(2)</b>	PID:			<b>1200</b>													
8] <b>TP-109(4)</b>	PID:			<b>1205</b>													
9] <b>TP-109(6)</b>	PID:			<b>1210</b>													
10] <b>TP-110(1)</b>	PID:			<b>1215</b>													

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<b>P. D.</b>	<b>5/22</b>	<b>[Signature]</b>	<b>5/24</b>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: **Hold**

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH/TD		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH/TD		Phone #: ( )		Temp. Upon Receipt:	
Phone #: ( )		Fax #: ( )		If Yes, please explain:	
Fax #: ( )					

Project Name: Riverfront PCB	Project #/PO#: 70588-10-	Sampler: TD	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES REFILTERED CI YES CI NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH				NONE	CRACKED/BROKEN	
1 TP-110(3)	PID:		5/23	12 <sup>20</sup>	Soil						11	X					
2 TP-110(6)	PID:		1	12 <sup>25</sup>	1												
3	PID:																
4	PID:																
5	PID:																
6	PID:																
7	PID:																
8	PID:																
9	PID:																
10	PID:																

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	5/23/07	<i>[Signature]</i>	5/27/07				
	TIME		TIME		TIME		TIME
	15		45				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: Hold



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
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Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH HS		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH HS		Phone #: { }		Temp. Upon Receipt:	
Phone #: { }		Fax #: { }		If Yes, please explain:	

Project Name: Riverfront PCB	Project #/PO#: 70588	Sampler: T	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES REID/FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH				NONE	CRACKED/BROKEN	
1	TP-111(2)	PID:	1/24	850	SIL							1	1	X			
2	TP-111(4)	PID:		855													
3	TP-111(6)	PID:		900													
4	TP-111(11)	PID:		905													
5	TP-112(1)	PID:		930													
6	TP-112(3)	PID:		935													
7	TP-112(5)	PID:		940													
8	TP-112(12)	PID:		945													
9	TP-113(2)	PID:		1015													
10	TP-113(6)	PID:		1020													

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>	1/24/07	<i>[Signature]</i>	1/24/07				
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS:

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: <b>Net 30 days</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/TD</b> Phone #: ( )		State & Program: <b>PA DEP</b>		Phone #: ( )	
E-mail: <b>CH/TD</b> Fax #: ( )				Fax #: ( )	
If Yes, please explain:					

Project Name: <b>Riverfront PCB</b>	Project #/PO#: <b>70588</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES REDUTERED Y/N	PCB	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH					NONE	CRACKED/BROKEN	
<del>TP-110(10)</del>			5/24	10 <sup>25</sup>	SOIL						1	1	x					
<b>TP-113(10)</b> PID:				11 <sup>30</sup>														
2] <b>TP-114(2)</b> PID:				11 <sup>35</sup>														
3] <b>TP-114(5)</b> PID:				11 <sup>40</sup>														
4] <b>TP-114(10)</b> PID:				11 <sup>45</sup>														
5] <b>TP-114(12)</b> PID:				12 <sup>00</sup>														
6] <b>TP-115(1)</b> PID:				12 <sup>05</sup>														
7] <b>TP-115(6)</b> PID:				12 <sup>00</sup>														
8] <b>TP-115(11)</b> PID:				13 <sup>00</sup>														
9] <b>TP-116(2)</b> PID:				13 <sup>05</sup>														
10] <b>TP-116(5)</b> PID:																		

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	5/24/07	<i>[Signature]</i>	5/24/07				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS: **HOLD**

PAGE OF

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
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(610) 337-9992  
FAX (610) 337-9939

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Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>TCT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: <b>Net 30 days</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/TA</b>		State & Program: <b>PADEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>CH/TA</b>		Phone #: ( )		Temp. Upon Receipt:	
Phone #: ( )		Fax #: ( )		If Yes, please explain:	

Project Name: <b>Riverfront PCB</b>	Project #/PO#: <b>70588</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	PCB	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH					NONE	CRACKED/BROKEN	
1	TD-116(11)	PID:	5/24	12:20	61L						1	1	4					
2	TD-117(1)	PID:		14:00														
3	TD-117(3)	PID:		14:05														
4	TD-117(6)	PID:		14:10														
5	TD-117(10)	PID:		14:15														
6		PID:																
7		PID:																
8		PID:																
9		PID:																
10		PID:																

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	5/24/07	<i>[Signature]</i>	5/24/07				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: **HOLD**

PAGE \_\_\_\_\_ OF \_\_\_\_\_



**RT ENVIRONMENTAL**

**TP-300**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 4 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 3.5' to 4'		
3½		TP-300(4)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-301**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 3' to 3.5'		
3 1/2		TP-301(3)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-302**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 2.5' to 3'		
3½		TP-302(3)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-303**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 2.5' to 3'		
3½		TP-303(3)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		



**RT ENVIRONMENTAL**

**TP-304**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2		Sample collected at 2.5' to 3'		
3		TP-304(3)		
3 1/2				
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-305**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 7 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 3 to 3.5'		
3 1/2		Sample collected at 6.5' to 7'		
4		TP-305(3)		
4 1/2		TP-305(7)		
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-306**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 6 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 5.5' to 6'		
3 1/2		TP-306(6)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-307**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 4 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 3.5' to 4'		
3 1/2		TP-307(4)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-308**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 4 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 2' to 2.5'		
3 1/2		TP-308(2)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-309**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	Geologist: Thomas Donovan
Boring#: TP-	Elevation: N/A	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: March 27, 2008	End Date: March 28, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 3' to 3.5'		
3½		TP-309(3)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-310**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)
Boring#: TP-	Elevation: N/A
Permit #: NA	Method: Backhoe
Start Date: March 27, 2008	End Date: March 28, 2008
Geologist: Thomas Donovan	
Operator: Anderson Construction	
Page 1 of 1	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 4 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 3.5' to 4'		
3 1/2		TP-310(4)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-311**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 3' to 3.5'		
3 1/2		TP-311(3)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
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14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		



**RT ENVIRONMENTAL**

**TP-312**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 6 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 6' to 6.5'		
3 1/2		TP-312(6)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-313**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)
Boring#: TP-	Elevation: N/A
Permit #: NA	Method: Backhoe
Start Date: March 27, 2008	End Date: March 28, 2008
	Geologist: Thomas Donovan
	Operator: Anderson Construction
	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 6 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 6' to 6.5'		
3 1/2		TP-313(6)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-314**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 10 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 9.5' to 10'		
3 1/2		TP-314(10)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-315**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 6 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 6' to 6.5'		
3½		TP-315(6)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-316**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 8 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 7.5' to 8'		
3 1/2		TP-316(8)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-317**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 4 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2				
3		Sample collected at 4' to 4.5'		
3 1/2		TP-317(4)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-318**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	
Boring#: TP-	Elevation: N/A	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: March 27, 2008	End Date: March 28, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1 1/2		No odor or PID reading		
2				
2 1/2		Sample collected at 3' to 3.5'		
3				
3 1/2		TP-318(3)		
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-319**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	Geologist: Thomas Donovan
Boring#: TP-	Elevation: N/A	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: March 27, 2008	End Date: March 28, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 3 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 3' to 3.5'		
3½		TP-319(3)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		



**RT ENVIRONMENTAL**

**TP-320**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	Geologist: Thomas Donovan
Boring#: TP-	Elevation: N/A	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: March 27, 2008	End Date: March 28, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 4 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½		Sample collected at 4' to 4.5'		
3				
3½		TP-320(4)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		

**RT ENVIRONMENTAL**

**TP-321**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Anderson - PCB Attainment Sampling - Dyott Parcel (Area 1)	Geologist: Thomas Donovan
Boring#: TP-	Elevation: N/A	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: March 27, 2008	End Date: March 28, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		Excavate Test Pit down to 6 feet bgs.		
1		All fill material including concrete, coal ash, brick, rock.		
1½		No odor or PID reading		
2				
2½				
3		Sample collected at 5.5' to 6'		
3½		TP-321(6)		
4				
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16		See Drawing for all Test Pit Locations		

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH/TD		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH/TD		Phone #: ( )		Temp. Upon Receipt:	
Phone #: ( )		Fax #: ( )		If Yes, please explain:	
Fax #: ( )					

FIELD ID LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FILTERED	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
				MeOH	H <sub>2</sub> SO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				NONE	CRACKED/BROKEN	
1 TP-30(3)	3/27	11 <sup>08</sup>	SOIL						1	1	X				
2 TP-36(4)		11 <sup>20</sup>													
3 TP-311(3)		11 <sup>40</sup>													
4 TP-312(6)		11 <sup>35</sup>													
5 TP-313(6)		12 <sup>10</sup>													
6 TP-314(10)		12 <sup>05</sup>													
7 TP-315(6)		12 <sup>45</sup>													
8 TP-316(8)		13 <sup>10</sup>													
9 TP-317(4)		13 <sup>05</sup>													
10 TP-318(3)		13 <sup>00</sup>													

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: HOLD ALL

PAGE OF

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Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>Cherr / Thompson</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>Cherr / Thompson</b>		Phone #: ( )		Temp. Upon Receipt:	
Fax #: ( )		Phone #: ( )		Fax #: ( )	
If Yes, please explain:					

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ACB	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
					MeOH	Hg/H2SO4	HCl	HNO3	H2SO4	NaOH	NONE					CRACKED/BROKEN	IMPROPERLY SEALED	
1	TP-300(4)	3/27	9:20	SOIL							1	1	X					
2	TP-301(2)		9:40															
3	TP-302(2)		9:45															
4	TP-303(2)		9:50															
5	TP-304(2)		9:52															
6	TP-305(7)		10:00															
7	TP-305(3)		10:05															
8	TP-306(6)		10:20															
9	TP-307(4)		10:30															
10	TP-308(2)		10:40															

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	3/28	<i>[Signature]</i>	3/28				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

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FAX (610) 337-9939

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Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	DATE RESULTS NEEDED:
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	Temp. Upon Receipt:
Report to: D/CH	Phone #: ( )	State & Program: DEP	Phone #: ( )	If Yes, please explain:	
E-mail:	Fax #: ( )		Fax #: ( )		

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES REJECTED	LABORATORY ID NUMBER
					MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE			
1	→ 319(3)	3/27	13 <sup>00</sup>	SOIL							11	X		
2	PID:													
3	PID:													
4	PID:													
5	PID:													
6	PID:													
7	PID:													
8	PID:													
9	PID:													
10	PID:													

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: HOLD

**CHAIN OF CUSTODY REPORT**

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King of Prussia, PA 19406  
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Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH/TD		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH/TD		Phone #: { } Fax #: { }		Temp. Upon Receipt:	
If Yes, please explain:					

Project Name: Riverfront PCB Attainment	Project #/PO#: 70588-16	Sampler: TD	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	PCB	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE					CRACKED/BROKEN	IMPROPERLY SEALED	
FIELD ID LOCATION																			
1	TP-321(6)	PID:	3/28	8 <sup>10</sup>	SOIL						1	1		X					
2	TP-320(4)	PID:	↓	7 <sup>50</sup>	↓						1	1		X					
3		PID:																	
4		PID:																	
5		PID:																	
6		PID:																	
7		PID:																	
8		PID:																	
9		PID:																	
10		PID:																	

RELINQUISHED	DATE 3/28/08	RECEIVED	DATE 3/29/08	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME 11:15		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: field All

RT ENVIRONMENTAL SERVICES, INC.  
FIELD ACTIVITY LOG

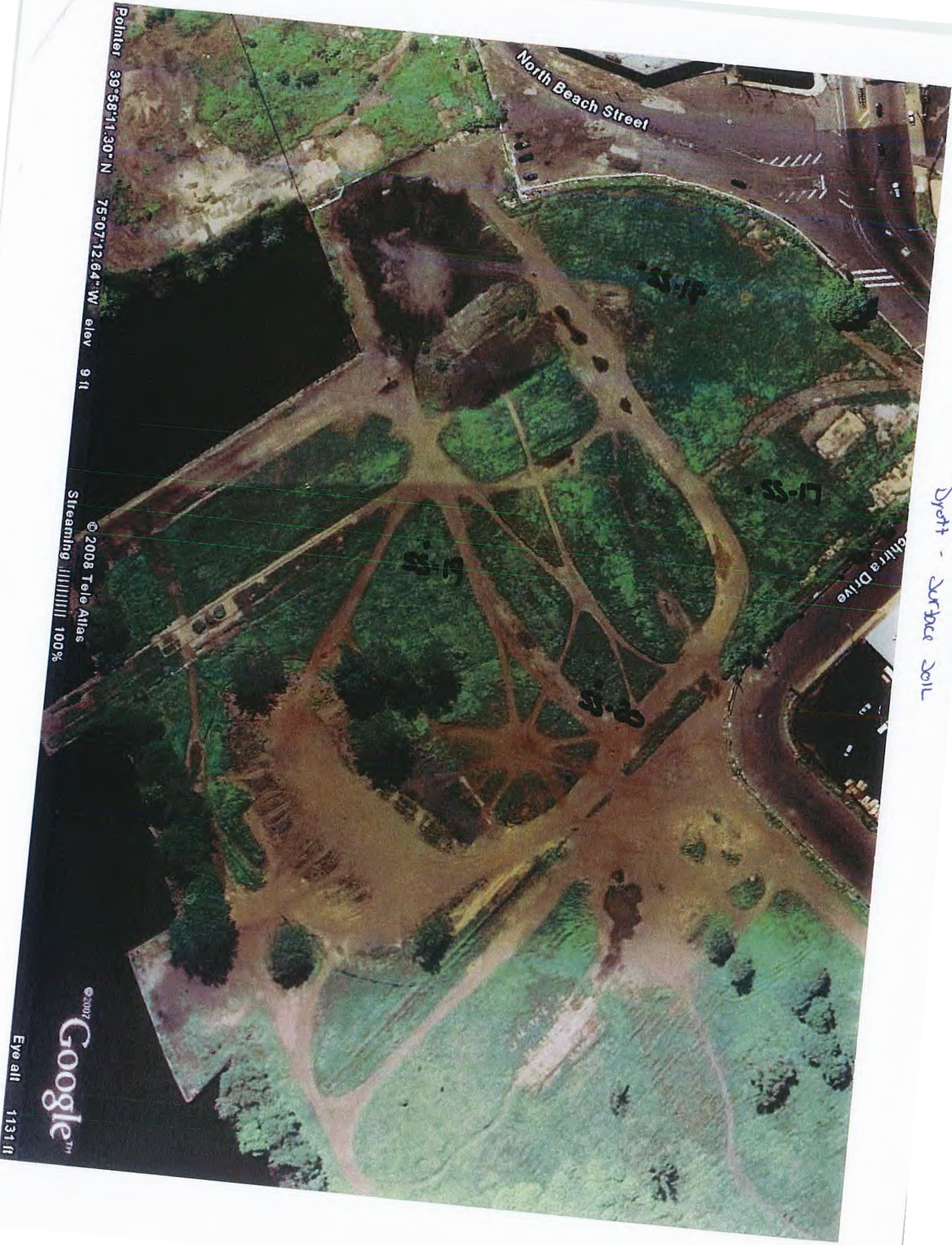
FILE

Client: Anderson Construction	Project #: 70588-16	Initials: JA
Job Location: Dyott St. Parcel	Date: 3/28/08	Weather: clouds SO-CO
Site Address: Riverfront - Phila, PA		
Equipment:		
Equipment Calibration: Model:		
PID: Gas/Lot#:	Gas ppm=	Instrument ppm=
H & S: Hospital Name:		
Location:		Number:
Police:		Number:
Explosive Atmosphere/Conditions:		Yes No
Utility Clearance	Client Approval: _____	
Serial #	(On-Site Utilities)	Name Date/Time
Drums on Site: No	Yes	Soil Pile: No Yes/Size
FIELD ACTIVITY: Surface Soil Sampling		
Begin collecting surface soil samples in random spots on property — see map for specific locations		
All samples collected from 0 to 2 foot interval using a hand trowel Trowel was decontaminated between each sample location		
A total of 8 surface soil samples collected on Dyott Parcel		
Submitted to laboratory for analysis of RCRA-8, PCB, & PAH		
Comments:		

Signature: \_\_\_\_\_

Page \_\_\_\_\_

of \_\_\_\_\_



North Beach Street

Chirra Drive

Pointer 39°58'11.30" N 75°07'12.64" W elev 9 ft

© 2008 Tele Atlas  
Streaming 100%

© 2007 Google™

Eye all 1131 ft

Dyott - surface soil

S-17

S-18

S-19

S-20



**CHAIN OF CUSTODY REPORT**

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FAX (610) 337-9939

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Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
				DATE RESULTS NEEDED:	
		<i>Terms: Net 30 days</i>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/→</b>		State & Program: <b>PA DEP</b>		Temp. Upon Receipt:	
E-mail: <b>CH/→</b>		Phone #: ( )		If Yes, please explain:	
		Fax #: ( )			

Project Name:	Project #/PO#:	Sampler:	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH					
<b>2verford - Surface Soil</b>	<b>70588 16</b>	<b>→</b>														
<b>1 SS-17</b>	PID:		<b>7/2</b>	<b>12<sup>00</sup></b>	<b>Soil</b>								<b>X</b>	<b>X</b>		
<b>2 SS-18</b>	PID:		<b>↓</b>	<b>12<sup>00</sup></b>	<b>↓</b>								<b>↓</b>	<b>↓</b>		
<b>3 SS-19</b>	PID:		<b>↓</b>	<b>13<sup>00</sup></b>	<b>↓</b>								<b>↓</b>	<b>↓</b>		
<b>4 SS-20</b>	PID:		<b>↓</b>	<b>13<sup>00</sup></b>	<b>↓</b>								<b>↓</b>	<b>↓</b>		
<b>5</b>	PID:															
<b>6</b>	PID:															
<b>7</b>	PID:															
<b>8</b>	PID:															
<b>9</b>	PID:															
<b>10</b>	PID:															

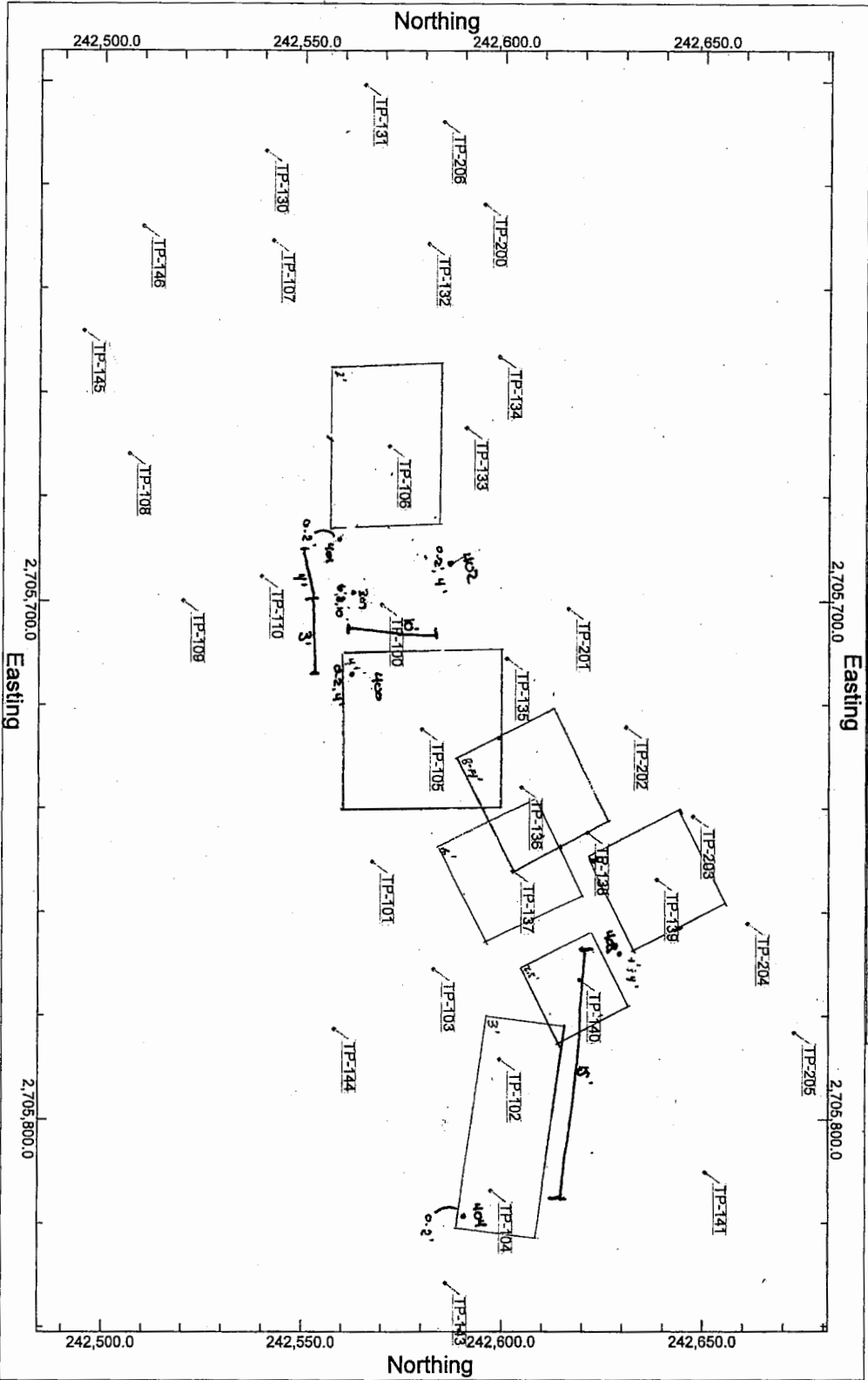
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>[Signature]</i>	<b>7/2/04</b>	<b>7/2/04</b>	<b>11/11/04</b>				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE

COMMENTS:

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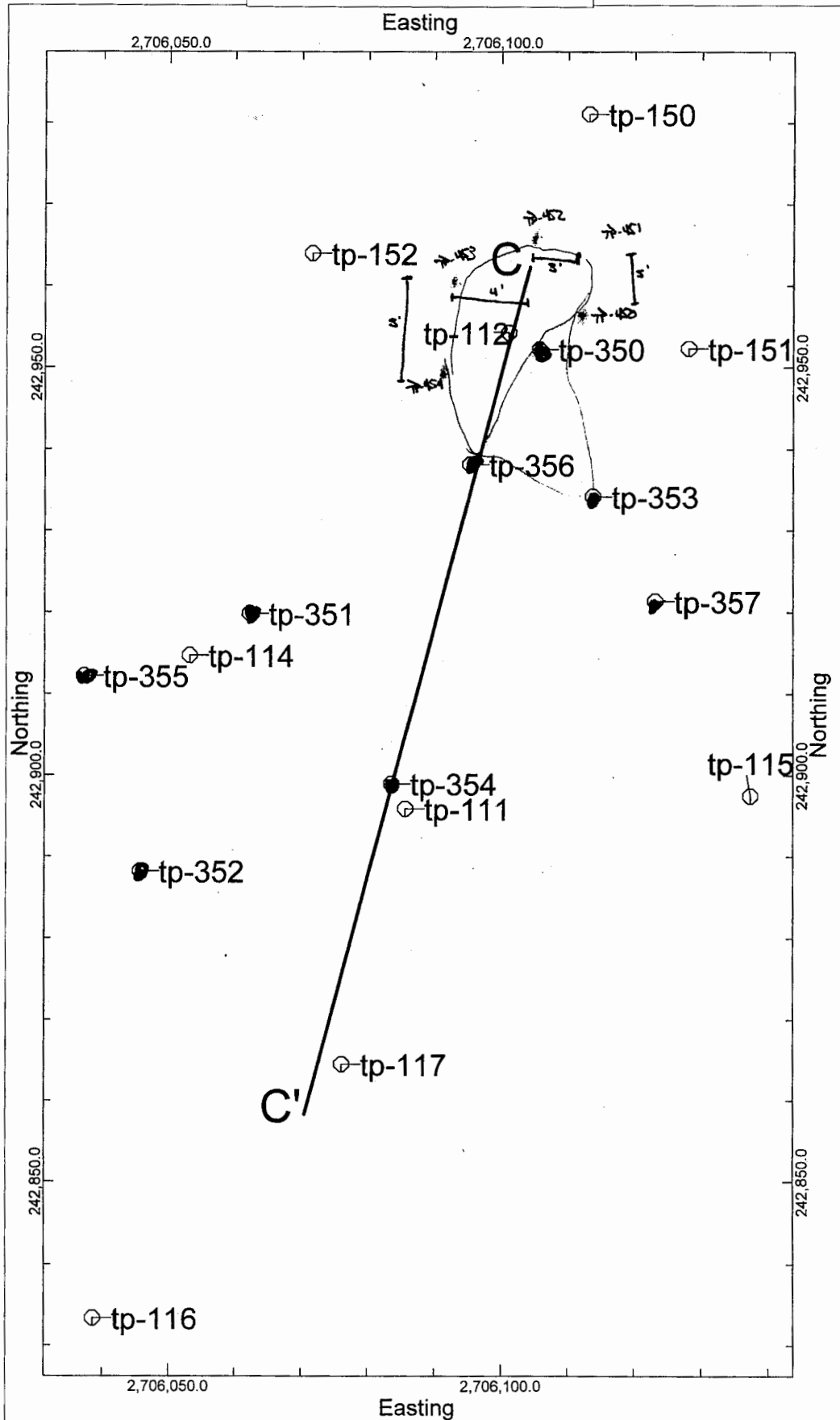


Contamination Distribution Area



# Contaminate Distribution

Area 2 - PCB 1260



**RT ENVIRONMENTAL**

**TP-307**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: April 22, 2008	End Date: April 22, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 10 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		Petroleum odor at approximately 4 feet bgs		
2		Black stained soil		
2 1/2				
3		Sampled at 6 - 6.5 feet bgs		
3 1/2		Sampled at 8 - 8.5 feet bgs		
4		Sampled at 10 - 10.5 feet bgs		
4 1/2				
5				
5 1/2		Groundwater observed at 10.5 feet bgs		
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-400**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: April 22, 2008	End Date: April 22, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 4 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 1.5 - 2 feet bgs		
3		Sampled at 4 - 4.5 feet bgs		
3 1/2				
4		TP-400(2)		
4 1/2		TP-400(4)		
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-401**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: April 22, 2008	End Date: April 22, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 2 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 1.5 - 2 feet bgs		
3				
3 1/2				
4		TP-401(2)		
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-402**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: April 22, 2008	End Date: April 22, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
½				
1		0 - 4 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1½		No PID and No Odor		
2				
2½		Sampled at 1.5 - 2 feet bgs		
3		Sampled at 4 - 4.5 feet bgs		
3½				
4		TP-402(2)		
4½		TP-402(4)		
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16				



**RT ENVIRONMENTAL**

**TP-404**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: April 22, 2008	End Date: April 22, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 2 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 1.5 - 2 feet bgs		
3		Sampled at 4 - 4.5 feet bgs		
3 1/2				
4		TP-404(2)		
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-450**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: April 22, 2008	End Date: April 22, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 8 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 8 - 8.5 feet bgs		
3				
3 1/2				
4		TP-450(8)		
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

TEST PIT LOG

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: April 22, 2008	End Date: April 22, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 6 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 6 - 6.5 feet bgs		
3				
3 1/2				
4		TP-451(6)		
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-452**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: April 22, 2008	End Date: April 22, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 10 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 9.5 - 10 feet bgs		
3				
3 1/2				
4		TP-452(10)		
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-453**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: April 22, 2008	End Date: April 22, 2008	

Depth (ft)	Sample Type & #	Description	PID	Remarks
½				
1		0 - 8 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1½		No PID and No Odor		
2				
2½		Sampled at 7.5 - 8 feet bgs		
3				
3½				
4		TP-453(8)		
4½				
5				
5½				
6				
6½				
7				
7½				
8				
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16				

**RT ENVIRONMENTAL**

**TP-454**

**TEST PIT LOG**

Proj. #: 70588-16	Proj. Name: Riverfront - PCB Attainment Sampling	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: April 22, 2008	End Date: April 22, 2008	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2				
1		0 - 12 feet bgs, fill material (brick, concrete, scrap metal, etc)		
1 1/2		No PID and No Odor		
2				
2 1/2		Sampled at 11.5 - 12 feet bgs		
3				
3 1/2				
4		TP-454(12)		
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>	Bill To: <b>SAME</b>	TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.
Address: <b>KOP</b>	Address:	Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient
Report to: <b>CHERR / TD noyan</b> Phone #: ( )		DATE RESULTS NEEDED:
E-mail: <b>CHERR / TD noyan</b> Fax #: ( )		Temp. Upon Receipt:
State & Program: <b>PA DEP</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES
Phone #: ( ) Fax #: ( )		If Yes, please explain:
Terms: Net 30 days		

Project Name: <b>Riverfort PCB Abatement</b>	Project #/PO#: <b>70588-16</b>	Sampler: <b>TD</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	PCB	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE					CRACKED	BROKEN	
1	TD-307(6)	PID:	4/22	900	61L							1	1		X				
2	TD-307(8)	PID:	↓	905	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	TD-307(10)	PID:		910															
4	TD-400(2)	PID:		912															
5	TD-400(4)	PID:		920															
6	TD-400(2)	PID:		915															
7	TD-402(2)	PID:		927															
8	TD-402(4)	PID:		925															
9	TD-403(1)	PID:		925															
10	TD-402(4)	PID:		922															

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>							

COMMENTS: **HOLD TD-307(8) : TD-307(10) RUN REST OF SAMPLES**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>ET ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <input checked="" type="checkbox"/> 5 DAY <input type="checkbox"/> 4 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 1 DAY <input type="checkbox"/> <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: <b>Net 30 days</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CH/TA</b> Phone #: ( )		State & Program: <b>PA DEP</b>		Phone #: ( )	
E-mail: <b>CH/TA</b> Fax #: ( )				Fax #: ( )	
If Yes, please explain:					

Project Name: <b>Riverford PCB Attachment</b>	Project #/PO#: <b>7088 of 16</b>	Sampler: <b>1</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES HELD FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	MeHSCl	HCl	HNO3	H2SO4	NaOH				NONE	CRACKED/BROKEN	
1	→ 404 (2)	PID:	4/22	9:45	Soil							11					
2	→ 450 (8)	PID:		10:00													
3	→ 451 (6)	PID:		10:00													
4	→ 452 (10)	PID:		10:20													
5	→ 453 (8)	PID:		10:40													
6	→ 454 (12)	PID:		11:00													
7		PID:															
8		PID:															
9		PID:															
10		PID:															

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE	
	TIME		TIME		TIME		TIME	
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE	
	TIME		TIME		TIME		TIME	
COMMENTS:							PAGE	OF



**RT ENVIRONMENTAL SERVICES, INC.**  
**FIELD ACTIVITY LOG**

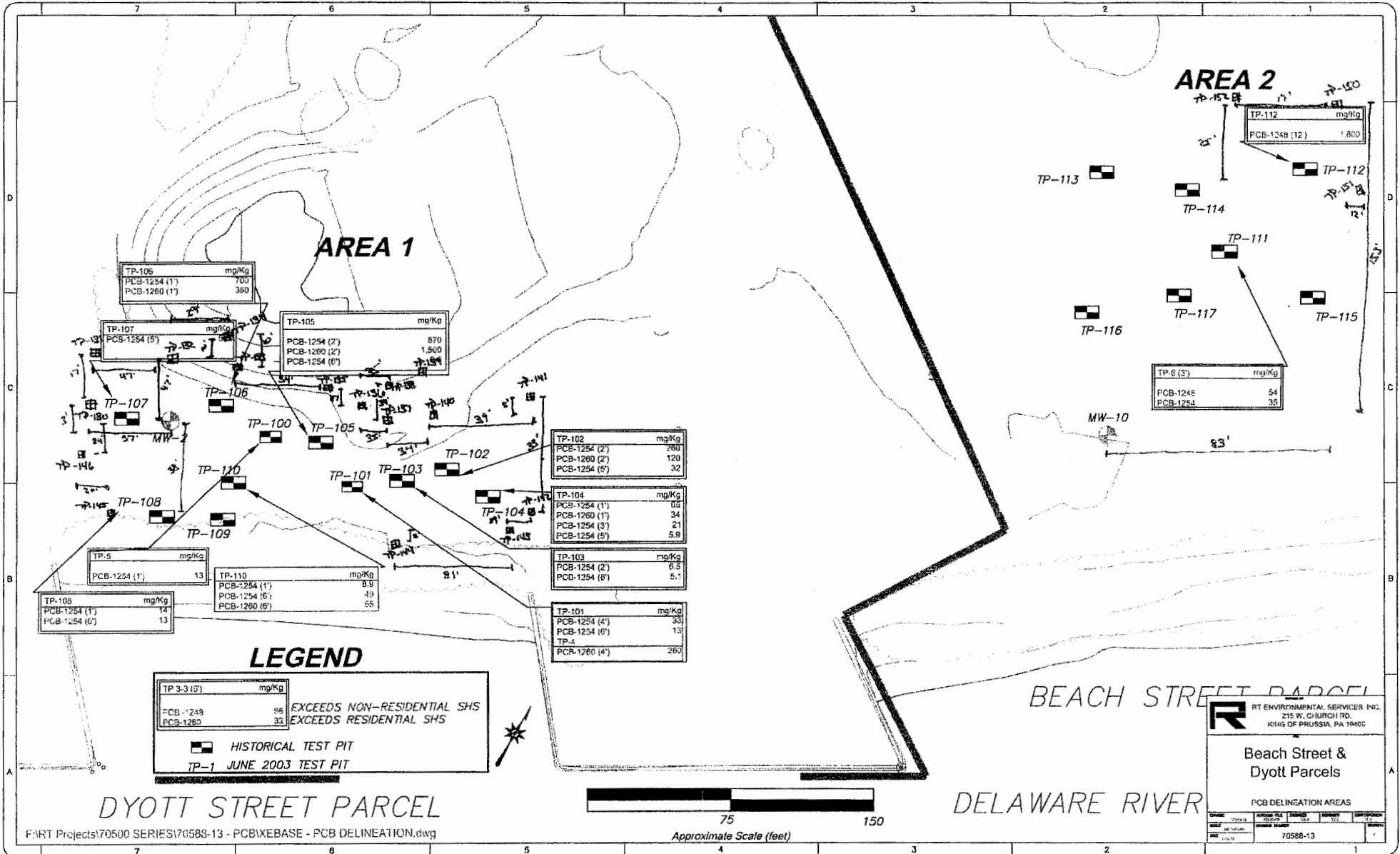
GB, CH, AM, TD, FIC

Client: Anderson Construction		Project #: 70588-13	Initials: TD	
Job Location: Riverfront - PCB		Date: 10/18 - 10/19/07	Weather: hazy / drizzle 70-80	
Site Address: 2015 Richmond St., Phila, PA				
Equipment:				
Equipment Calibration: Model:				
PID: Gas/Lot#:		Gas ppm=	Instrument ppm=	
H & S: Hospital Name:				
Location:		Number:		
Police:		Number:		
Explosive Atmosphere/Conditions:		Yes	No	
Utility Clearance		Client Approval:		
Serial #	(On-Site Utilities)		Name	Date/Time
Drums on Site:	No	Yes	Soil Pile:	No Yes/Size
<b>FIELD ACTIVITY: PCB Soil Delineation</b>				
Oct. 18, 2007				
RT onsite at 10 <sup>00</sup> w/ Anderson Construction				
Begin excavating test pits in Area 1 → see attached sample location map				
See Test Pit Logs for soils descriptions & sample points				
All samples taken above water table and unsaturated				
RT concludes first day of test pits - offsite at 15 <sup>30</sup>				
Oct. 19, 2007				
RT onsite at 7 <sup>00</sup> w/ Anderson Construction				
Continue w/ PCB delineation				
→ see attached logs & sample maps				
Soil delineation completed at 14 <sup>30</sup>				
All samples transported to laboratory.				
Attach: COC, Test Pit Logs, SLM				
Comments:				

Signature: \_\_\_\_\_

Page \_\_\_\_\_



of \_\_\_\_\_



**AREA 1**

**AREA 2**

**LEGEND**

TP 3-3 (3)	mg/Kg	
PCB-1249	86	EXCEEDS NON-RESIDENTIAL SHS
PCB-1260	31	EXCEEDS RESIDENTIAL SHS
 HISTORICAL TEST PIT  TP-1 JUNE 2003 TEST PIT		

TP-106	mg/Kg	
PCB-1254 (1)	700	
PCB-1260 (1)	360	
TP-107	mg/Kg	
PCB-1254 (5)		
TP-105	mg/Kg	
PCB-1254 (2)	870	
PCB-1200 (2)	1,500	
PCB-1254 (8)		
TP-102	mg/Kg	
PCB-1254 (2)	260	
PCB-1200 (2)	120	
PCB-1254 (5)	32	
TP-104	mg/Kg	
PCB-1254 (1)	0.2	
PCB-1260 (1)	34	
PCB-1254 (3)	21	
PCB-1254 (5)	5.9	
TP-103	mg/Kg	
PCB-1254 (2)	6.5	
PCB-1254 (8)	5.1	
TP-101	mg/Kg	
PCB-1254 (4)	33	
PCB-1254 (6)	1.3	
TP-1		
PCB-1260 (4)	260	
TP-5	mg/Kg	
PCB-1254 (1)	13	
TP-110	mg/Kg	
PCB-1254 (1)	6.9	
PCB-1254 (5)	49	
PCB-1260 (8)	55	
TP-108	mg/Kg	
PCB-1254 (1)	14	
PCB-1254 (6)	13	
TP-109	mg/Kg	
TP-110	mg/Kg	
PCB-1254 (1)	6.9	
PCB-1254 (5)	49	
PCB-1260 (8)	55	
TP-101	mg/Kg	
PCB-1254 (4)	33	
PCB-1254 (6)	1.3	
TP-1		
PCB-1260 (4)	260	
TP-102	mg/Kg	
PCB-1254 (2)	260	
PCB-1200 (2)	120	
PCB-1254 (5)	32	
TP-104	mg/Kg	
PCB-1254 (1)	0.2	
PCB-1260 (1)	34	
PCB-1254 (3)	21	
PCB-1254 (5)	5.9	
TP-103	mg/Kg	
PCB-1254 (2)	6.5	
PCB-1254 (8)	5.1	
TP-101	mg/Kg	
PCB-1254 (4)	33	
PCB-1254 (6)	1.3	
TP-1		
PCB-1260 (4)	260	
TP-112	mg/Kg	
PCB-1248 (12)	1,800	
TP-6 (3)	mg/Kg	
PCB-1248	54	
PCB-1254	35	

**RT ENVIRONMENTAL SERVICES INC.**  
 215 W. CHURCH RD.  
 KING OF PRUSSIA, PA 19406

**Beach Street & Dyott Parcels**

DATE	DESCRIPTION	BY	REVISION
07/15/03	PCB DELINEATION AREAS	...	...
PROJECT NO.		70588-13	



RT ENVIRONMENTAL

TP-130

TEST PIT LOG

Proj. # 70688-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-2' Light brown soil (sandy silt) w/ brick, concrete, metal		
1				
1 1/2		2'-8' Fill material concrete, brick, historic fill Metal Pungent odor at 5' (undetermined)  Ground water at 8'  Sampled at 1.5'-2' 3.5'-4' 7.5'-8'  TP - 130 (2) 130 (4) 130 (8)		
2				
2 1/2				
3				
3 1/2				
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
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9 1/2				
10				
10 1/2				
11				
11 1/2				
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12 1/2				
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13 1/2				
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14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP-131

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	Geologist: TD
Boring#: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		<p>0-10' Large pieces of concrete metal pipes, brick cobblestone, : some glass some coal ash throughout excavation</p> <p>No odors</p> <p>Groundwater at 10'</p> <p>Sampled 1.5'-2' 4.5'-5' 9.5'-10'</p> <p>TP-131 (2) 131 (5) 131 (10)      10<sup>30</sup></p>		
1				
1 1/2				
2				
2 1/2				
3				
3 1/2				
4				
4 1/2				
5				
5 1/2				
6				
6 1/2				
7				
7 1/2				
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL		TP-132			
TEST PIT LOG					
Proj. # 70588-13		Proj. Name: Riverfront PCB Delineation			
Boring#: TP-		Elevation:	Geologist: TD		
Permit #: NA		Method: Backhoe	Operator: Anderson Const.		
Start Date: October 18, 2007		End Date: October 19, 2007	Page 1 of 1		
Depth (ft)	Sample Type & #	Description	PID	Remarks	
1/2		0-8' Fill material Coal ash throughout Large concrete, brick broken glass, rebar No odor Groundwater at 8' Sampled at 1'-1.5' 3-3.5' 7.5-8' TP-132 (1) 132 (3) 10 <sup>30</sup> 132 (8)			
1					
1 1/2					
2					
2 1/2					
3					
3 1/2					
4					
4 1/2					
5					
5 1/2					
6					
6 1/2					
7					
7 1/2					
8					
8 1/2					
9					
9 1/2					
10					
10 1/2					
11					
11 1/2					
12					
12 1/2					
13					
13 1/2					
14					
14 1/2					
15					
15 1/2					
16					

RT ENVIRONMENTAL

TP-133

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-12' Fill material		
1				
1 1/2		Large concrete, brick		
2		broken glass, metal objects		
2 1/2		electrical wires, coil wire (metal)		
3		some coal ash		
3 1/2				
4		No odor		
4 1/2				
5				
5 1/2		Groundwater at 12'		
6				
8 1/2		Sampled at 10'-10.5'		
7		5.5'-6'		
7 1/2		1.5'-2'		
8				
8 1/2		TD-133 (10)		
9		133 (6)	1120	
9 1/2		133 (2)		
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP- 134

TEST PIT LOG

Proj. # 70688-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-8' Fill Material		
1		Concrete w/ rebar		
1 1/2		Metal pieces		
2		brick, coal ash		
2 1/2		broken glass		
3		gold paint chips		
3 1/2				
4		No odor		
4 1/2				
5		Groundwater at 8'		
5 1/2				
6		Sampled at 1.5-2'		
6 1/2		3.5-4'		
7		7'-7.5'		
7 1/2				
8		TP-134(2)		
8 1/2		134(4)	1145	
9		134(7)		
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				



RT ENVIRONMENTAL

TP-135

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-10' Fill material wood, coal ash concrete, rebar, brick Glass  what appears to be a large battery (old) excavated at 5' bgs (pic taken)		
1				
1 1/2				
2				
2 1/2				
3				
3 1/2				
4				
4 1/2				
5				
5 1/2		No odor in soil		
6		Strong odor from battery (not petroleum)		
6 1/2		o PID reading		
7				
7 1/2				
8		Sampled at 1.5'-2'		
8 1/2		4.5'-5'		
9		8.5'-9'		
9 1/2				
10		TP-135 (2)		
10 1/2		135 (5)		
11		135 (9)		
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

12<sup>20</sup>

RT ENVIRONMENTAL

TP-136

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	Geologist: TD
Boring #: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page: 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
0-9'		Fill material		
1'		Concrete, brick, wires		
1 1/2'		Various auto parts		
2'		coal ash		
2 1/2'		Blue / white powdery substance		
3'		observed from 4' - 6'		
3 1/2'		- Not ubiquitous		
4'		No odor		
4 1/2'				
5'				
5 1/2'				
6'		Groundwater at 10'		
6 1/2'		slight sheen on gw		
7'		No PID reading		
7 1/2'				
8'				
8 1/2'				
9'		Sampled at 1'-1.5'		
9 1/2'		4.5'-5'		
10'		7.5'-8'		
10 1/2'				
11'		TP-136 (1)		
11 1/2'		136 (5)	1245	
12'		136 (8)		
12 1/2'		TP-136 (5) contained very little blue material		
13'				
13 1/2'		Sample collected solely of blue material		
14'		at 4' bgs.		
14 1/2'				
15'				
15 1/2'				
16'				

RT ENVIRONMENTAL

TP-137

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	Geologist: TD
Boring#: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-10' Fill material		
1		Brick, cobblestone, large concrete		
1 1/2		metal. : some municipal waste		
2		(cons. paper, etc.)		
2 1/2				
3				
3 1/2		Some blue material from 3'-6'		
4		- Not as much as TP-136		
4 1/2				
5		Groundwater at 10'		
5 1/2		- slight sheen		
6		No odor or PID		
6 1/2				
7				
7 1/2				
8		Sampled at 1.5-2'		
8 1/2		4.5-5'		
9		7.5-8'		
9 1/2				
10		TP-137 (2)		
10 1/2		137 (5)	13 <sup>10</sup>	
11		137 (8)		
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL		TP- 138		
TEST PIT LOG				
Proj. # 70588-13		Proj. Name: Riverfront PCB Delineation		
Boring#: TP-		Elevation:	Geologist: TD	
Permit #: NA		Method: Backhoe	Operator: Anderson Const.	
Start Date: October 18, 2007		End Date: October 18, 2007	Page 1 of 1	
Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-10' Fill material		
1		Large concrete, brick, cobblestone		
1 1/2		w/ some trash (fabric)		
2		blue material observed from 3'-7'		
2 1/2		(not a lot) No odor		
3				
3 1/2				
4				
4 1/2		Groundwaters at 10'		
5		No sheen		
5 1/2				
6				
6 1/2		Sampled at 1.5'-2'		
7		5.5'-6'		
7 1/2		8.5'-9'		
8				
8 1/2		→ -138 (2)	1385	
9		138 (6)		
9 1/2		138 (9)		
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP- 139

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-11' Fill Material		
1		A lot of broken glass		
1 1/2		coal ash, concrete, stone, brick		
2		metal piping		
2 1/2				
3		No odor or PID		
3 1/2				
4				
4 1/2		Groundwater at 11'		
5		No sheen		
5 1/2				
6		Sampled at 1.5'-2'		
6 1/2		5'-5.5'		
7		8.5'-9'		
7 1/2				
8				
8 1/2		TP-139 (2)		
9		139 (5)		
9 1/2		139 (9)		
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

14<sup>10</sup>

RT ENVIRONMENTAL

TP-140

TEST PIT LOG

Proj. # 70688-13	Proj. Name: Riverfront PCB Delination	Geologist: TD
Boring#: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
0-8'		Fill material		
1		concrete, stone, coal ash		
1 1/2		metal piping. rubber hoses		
2		brick		
2 1/2				
3				
3 1/2		Little blue material throughout excavation		
4		No odor		
4 1/2				
5		Groundwater at 8'		
5 1/2				
6				
6 1/2		Sampled at 0.5-1'		
7		4'-4.5'		
7 1/2		6.5-7'		
8				
8 1/2		TP-140 (1)		
9		140 (4)	1430	
9 1/2		140 (7)		
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

10/18/07

Area 1

RT ENVIRONMENTAL

TP- 141

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-5' Fill Material		
1		old road bedding, asphalt		
1 1/2		cobblestone, some concrete		
2		historic fill (coal ash)		
2 1/2				
3				
3 1/2		No odor		
4				
4 1/2		Groundwater at 5'		
5				
5 1/2				
6		Sampled at 1'-1.5'		
6 1/2		4'-4.5'		
7				
7 1/2		TD-141 (1)	740	
8		141 (4)		
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**RT ENVIRONMENTAL**

**TP-142**

**TEST PIT LOG**

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	Geologist: TD
Boring#: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
½		TP-142		
1		0-5' Fill material		
1½		Coal ash w/ stone		
2		asphalt		
2½		River sediment at 5'		
3		Groundwater infiltration at 5'		
3½				
4				
4½				
5				
5½		Sampled at 1'-1.5'		
6		3.5-4'		
6½				
7				
7½		TP-142 (1) 800		
8		142 (4)		
8½				
9				
9½				
10				
10½				
11				
11½				
12				
12½				
13				
13½				
14				
14½				
15				
15½				
16				



RT ENVIRONMENTAL

TP- 143

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	Geologist: TD
Boring#: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
0-5'		Fill material		
1		Large slabs of concrete		
1 1/2		coal ash, metal pipes		
2		municipal waste (i.e. shoes)		
2 1/2				
3		No odor		
3 1/2				
4				
4 1/2		Groundwater at 5'		
5				
5 1/2		Sampled at 4.5'-5'		
6		1.5'-2'		
6 1/2				
7				
7 1/2		→ - 143 (2)		
8		143 (5)		
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

830

RT ENVIRONMENTAL

TP-144

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-4' Fill material		
1		coal ash, brick		
1 1/2				
2		cobblestone road at 4' bgs		
2 1/2				
3		water infiltration at 4'		
3 1/2				
4		Groundwater at 4'		
4 1/2				
5				
5 1/2		Sampled at 0.5-1'		
6		3.5-4'		
6 1/2				
7				
7 1/2		→ 144 (1)		
8		144 (4)	845	
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP-145

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-4' Fill material		
1		Mostly large pieces of concrete		
1 1/2		& brick		
2		some cobblestone		
2 1/2				
3				
3 1/2		Groundwater at 4'		
4		No odor		
4 1/2				
5				
5 1/2				
6		Sampled at 1'-1.5'		
6 1/2		3'-3.5'		
7				
7 1/2		TP-145 (1)		
8		145 (3)	900	
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP-146

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-4' Fill Material		
1		Concrete, stone, brick		
1 1/2		coal ash w/ slag		
2		No odor		
2 1/2				
3				
3 1/2				
4		Groundwater at 4'		
4 1/2				
5		Sampled at 1.5'-2'		
5 1/2		3.5-4'		
6				
6 1/2				
7		TP-146 (2)		
7 1/2		146 (4)		
8				
8 1/2				
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

920

RT ENVIRONMENTAL

TP-150

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks	
1/2		<p>0-13' Fill Material</p> <p>A lot of coal ash, large concrete slabs brick, stone, lumber some municipal trash</p> <p>No odor</p> <p>No groundwater encountered down to 13' bgs</p> <p>- soil moist at 13'</p> <p>Sampled at 1.5'-2' 5.5'-6' 12.5'-13'</p> <p>TP-150 (2) 150 (6)      10<sup>50</sup> 150 (18)</p>			
1					
1 1/2					
2					
2 1/2					
3					
3 1/2					
4					
4 1/2					
5					
5 1/2					
6					
6 1/2					
7					
7 1/2					
8					
8 1/2					
9					
9 1/2					
10					
10 1/2					
11					
11 1/2					
12					
12 1/2					
13					
13 1/2					
14					
14 1/2					
15					
15 1/2					
16					

**RT ENVIRONMENTAL  
TEST PIT LOG**

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	Geologist: TD
Boring#: TP-	Elevation:	Operator: Anderson Const.
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: October 18, 2007	End Date: October 19, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-13' Fill Material		
1				
1 1/2		A lot of coal ash, concrete		
2		lumber, metal debris		
2 1/2				
3		some municipal waste		
3 1/2				
4				
4 1/2		No groundwater at 13' bgs		
5		- soil moist at 13'		
5 1/2				
6		No odor		
6 1/2				
7		Sampled at 1.5'-2'		
7 1/2		5.5'-6'		
8		12.5'-13'		
8 1/2				
9				
9 1/2		TP-151 (2)		
10		151 (4)	1130	
10 1/2		151 (15)		
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP-152

TEST PIT LOG

Proj. # 70588-13	Proj. Name: Riverfront PCB Delineation	
Boring#: TP-	Elevation:	Geologist: TD
Permit #: NA	Method: Backhoe	Operator: Anderson Const.
Start Date: October 18, 2007	End Date: October 19, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-13' Fill Material		
1				
1 1/2		A lot of coal ash ; concrete		
2				
2 1/2		lumber, brick, stone		
3				
3 1/2		metal debris ; some municipal waste		
4		No odor		
4 1/2				
5		Groundwater encountered at 13' bgs		
5 1/2				
6				
6 1/2		Sampled at 1.5'-2'		
7		5.5'-6'		
7 1/2		12.5'-13'		
8				
8 1/2		TP-152 (2)		
9		152 (6)		
9 1/2		152 (13)		
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: E-mail: CH/TS	Phone #: Fax #:	State & Program: PA DEP	Phone #: Fax #:	DATE RESULTS NEEDED:	
				Temp. Upon Receipt:	
If Yes, please explain:					

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD RETURNED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
					MeOH	NaF/SCA	HCl	HNO3	H2SO4	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
1	TP-130 (2)	10/8	10 <sup>00</sup>	SOIL								1					
	PID:																
2	TP-130 (4)		10 <sup>00</sup>														
	PID:																
3	TP-130 (8)		10 <sup>00</sup>														
	PID:																
4	TP-131 (2)		10 <sup>20</sup>														
	PID:																
5	TP-131 (5)		10 <sup>30</sup>														
	PID:																
6	TP-131 (10)		10 <sup>30</sup>														
	PID:																
7	TP-132 (1)		10 <sup>50</sup>														
	PID:																
8	TP-132 (3)		10 <sup>20</sup>														
	PID:																
9	TP-132 (8)		10 <sup>30</sup>														
	PID:																
10	TP-133 (2)		11 <sup>20</sup>														
	PID:																

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE	RECEIVED	DATE
	10/8		10/6				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE



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FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH / → E-mail: CH / →		Phone #: { } Fax #: { }		State & Program: PA DEP Phone #: { } Fax #: { }	
If Yes, please explain:					

Project Name: Riverfront - PCB	Project #/PO#: 70588-13	Sampler: →	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH				NONE	CRACKED/BROKEN	
FIELD ID, LOCATION																	
1	→-133 (6)		10/18	11:20	SOIL						1	1	X				
	PID:																
2	→-133 (10)			11:20													
	PID:																
3	→-134 (2)			11:45													
	PID:																
4	→-134 (4)			11:45													
	PID:																
5	→-134 (7)			11:45													
	PID:																
6	→-135 (2)			12:20													
	PID:																
7	→-135 (5)			12:20													
	PID:																
8	→-135 (9)			12:20													
	PID:																
9	→-136 (1)			12:45													
	PID:																
10	→-136 (5)			12:45													
	PID:																

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>	10/17 12:20	<i>[Signature]</i>	10/17 12:26				
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS:

PAGE \_\_\_\_\_ OF \_\_\_\_\_

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(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: Net 30 days		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: CH/AD		State & Program: PA DEP		DATE RESULTS NEEDED:	
E-mail: CH/AD		Phone #: { } Fax #: { }		Temp. Upon Receipt:	
Phone #: { } Fax #: { }		Phone #: { } Fax #: { }		If Yes, please explain:	

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES RED FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
				MeOH	NH4SO4	HCl	HNO3	H2SO4	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
1 → 136(8) PID:	10/18	11:20 12:45	SOIL							1	1	X				
2 → 136 - Blue Material PID:		11:20 12:45														
3 → 137(2) PID:		13:00														
4 → 137(5) PID:		13:00														
5 → 137(8) PID:		13:00														
6 → 138(2) PID:		13:35														
7 → 138(6) PID:		13:35														
8 → 138(9) PID:		13:35														
9 → 139(2) PID:		14:00														
10 → 139(5) PID:		14:00														

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>	10/17 5:20	<i>[Signature]</i>	10/17 5:20				
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
		<i>[Signature]</i>					

COMMENTS: Keep Blue Material Sample on Hold →

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
Report to: CH/TD		State & Program: PA DEP		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
E-mail: CH/TD		Phone #: ( ) Fax #: ( )		Temp. Upon Receipt:	
Phone #: ( ) Fax #: ( )		Phone #: ( ) Fax #: ( )		If Yes, please explain:	

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
					MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE				YES	NO	
1	→-139(9)	10/18	14:10	SWL							1	1	X				
2	→-140(1)		14:30														
3	→-140(4)		14:30														
4	→-140(7)		14:30														
5	→-141(1)	10/19	7:40														
6	→-141(4)		7:40														
7	→-142(1)		8:00														
8	→-142(4)		8:00														
9	→-143(2)		8:30														
10	→-143(2)		8:30														

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS:

PAGE 1 OF 1

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
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FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
Report to: CH / TD		State & Program: PA DEP		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
E-mail: CH / TD		Phone #: ( )		Temp. Upon Receipt:	
Fax #: ( )		Phone #: ( )		If Yes, please explain:	

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES REFILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
				MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
1) TP-144 (1) PID:	10/19	845	SOIL							1	1	X				
2) TP-144 (4) PID:		845														
3) TP-145 (1) PID:		900														
4) TP-145 (3) PID:		900														
5) TP-146 (2) PID:		920														
6) TP-146 (4) PID:		920														
7) TP-150 (2) PID:		1050														
8) TP-150 (6) PID:		1050														
9) TP-150 (13) PID:		1050														
10) TP-151 (2) PID:		1130														

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
<i>[Signature]</i>	10/19 8:45	<i>[Signature]</i>	10/19 8:45				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
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1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: RT ENV		Bill To: SAME		TAT: STD. <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: KOP		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
Report to: CH/TB		State & Program: DA DEP		Terms: Net 30 days	
E-mail: CH/TB		Phone #: { } Fax #: { }		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Project Name: Riverfront - RCB		Date Results Needed:		Temp. Upon Receipt:	
Project #/PO#: 70588-13		If Yes, please explain:			

FIELD ID	LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLER FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
					MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE				CRACKED/BROKEN	IMPROPERLY SEALED	
1	TD-151(C)	10/19	11:30	SOIL							1	1		X			
2	TD-151(B)		11:30														
3	TD-152(C)		12:15														
4	TD-152(C)		12:15														
5	TD-152(B)		12:15														
6																	
7																	
8																	
9																	
10																	

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<i>[Signature]</i>	10/19/07	<i>[Signature]</i>	10/19/07				
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS:

PAGE \_\_\_\_\_ OF \_\_\_\_\_










# AREA 1

Approximate Scale (feet)

150

75

## LEGEND

-  HISTORICAL TEST PIT
-  JUNE 2003 TEST PIT (DEPTH OF DETECTION)
-  ABOVE SOIL TO GROUNDWATER STANDARD
-  ABOVE NON-RESIDENTIAL DIRECT CONTACT STANDARD 2-15 FT.
-  ABOVE NON-RESIDENTIAL DIRECT CONTACT STANDARD 0-25 FT.
-  ABOVE RESIDENTIAL DIRECT CONTACT STANDARD
-  MEETS OR IS LESS THAN THE RESIDENTIAL DIRECT CONTACT STANDARD

DYOTT STREET PARCEL

**RT ENVIRONMENTAL SERVICES, INC.**  
 215 W. CHURCH RD.  
 KING OF PRUSSIA, PA 19406

**Dyott Parcel  
 Area 1**

PCB DELINEATION AREA

DATE	TITLE	SCALE	DATE	SCALE	DATE	SCALE
AS SHOWN						
DATE	PROJECT	NO.	DATE	PROJECT	NO.	DATE
7/2008	70431-08					

# AREA 1

75 150  
Approximate Scale (feet)

TP-110	mg/Kg
PCB-1254 (1)	8.9
PCB-1254 (8)	49
PCB-1280 (8)	55

## LEGEND

TP-110	mg/Kg	EXCEEDS NON-RESIDENTIAL SHS
PCB-1254 (1)	8.9	EXCEEDS RESIDENTIAL SHS
PCB-1254 (8)	49	EXCEEDS RESIDENTIAL SHS
PCB-1280 (8)	55	
TP-1		HISTORICAL TEST PIT
TP-1		JUNE 2003 TEST PIT

DYOTT STREET PARCEL

TP-108	mg/Kg
PCB-1254 (1)	14
PCB-1254 (8)	13

TP-5	mg/Kg
PCB-1254 (1)	13

TP-101	mg/Kg
PCB-1254 (4)	33
PCB-1254 (8)	13
TP-4	
PCB-1280 (4)	280

TP-103	mg/Kg
PCB-1254 (2)	6.5
PCB-1254 (8)	5.1

TP-105	mg/Kg
PCB-1254 (2)	870
PCB-1280 (2)	1,600
PCB-1254 (8)	9.5

TP-102	mg/Kg
PCB-1254 (2)	250
PCB-1280 (2)	120
PCB-1254 (8)	32

TP-104	mg/Kg
PCB-1254 (1)	86
PCB-1280 (1)	34
PCB-1254 (3)	21
PCB-1254 (8)	5.9

TP-140	mg/Kg
PCB-1248 (1)	41
PCB-1264 (1)	63
PCB-1248 (4)	19
PCB-1254 (4)	13

TP-137	mg/Kg
PCB-1254 (2)	16
PCB-1254 (8)	100
PCB-1280 (8)	55
PCB-1248 (8)	10
PCB-1254 (8)	11

TP-138	mg/Kg
PCB-1254 (2)	120
TP-138	mg/Kg
PCB-1280 (8)	44
PCB-1248 (8)	13
PCB-1254 (8)	22

TP-136	mg/Kg
PCB-1280 (8)	150
PCB-1254 (8M)	19
PCB-1280 (8M)	34

TP-135	mg/Kg
PCB-1254 (2)	12
PCB-1254 (8)	24

TP-200	mg/Kg
PCB-1254 (1)	7.1

TP-201	mg/Kg
PCB-1254 (8)	4.9

TP-202	mg/Kg
PCB-1254 (8)	9.9

TP-204	mg/Kg
PCB-1254 (2)	11

**RT ENVIRONMENTAL SERVICES, INC.**  
215 W. CHURCH RD.  
KING OF PRUSSIA, PA 19406

**Beach Street & Dyott Parcels**

PCB DELINEATION AREAS

70588-13



RT ENVIRONMENTAL

TP- 200

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: November 14, 2007	End Date: November 14, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks	
1/2		<p>0-6' Fill Material</p> <p>Brick, concrete, metal, coal ash</p> <p>No odor or unusual discoloration</p> <p>No PID reading</p> <p>Groundwater observed at 6'</p> <p>Sampled at 1' 4'</p> <p>TP-200 (1) 900 200 (4)</p>			
1					
1 1/2					
2					
2 1/2					
3					
3 1/2					
4					
4 1/2					
5					
5 1/2					
6					
6 1/2					
7					
7 1/2					
8					
8 1/2					
9					
9 1/2					
10					
10 1/2					
11					
11 1/2					
12					
12 1/2					
13					
13 1/2					
14					
14 1/2					
15					
15 1/2					
16					

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: November 14, 2007	End Date: November 14, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks	
1/2		0-6' Fill material Large pieces of concrete, brick, coal ash, some metal  No odor or Staining  No PID  Groundwater at 6'  Sampled at 2' & 5'  TP- 201 (2)                      930 201 (5)			
1					
1 1/2					
2					
2 1/2					
3					
3 1/2					
4					
4 1/2					
5					
5 1/2					
6					
6 1/2					
7					
7 1/2					
8					
8 1/2					
9					
9 1/2					
10					
10 1/2					
11					
11 1/2					
12					
12 1/2					
13					
13 1/2					
14					
14 1/2					
15					
15 1/2					
16					

RT ENVIRONMENTAL

TP- 202

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: November 14, 2007	End Date: November 14, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-8' Fill Material		
1				
1 1/2		Large pieces of concrete, brick,		
2		coal ash w/ slag, & some metal		
2 1/2				
3				
3 1/2		No odor or staining		
4				
4 1/2		No PID		
5				
5 1/2		Groundwater at 8'		
6				
6 1/2				
7		Sampled at 5' & 7'		
7 1/2				
8		→ 202(5)		
8 1/2		202 (7) <sup>950</sup>		
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: November 14, 2007	End Date: November 14, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-7' Fill Material		
1				
1 1/2		Large pieces of concrete, brick,		
2		coal ash, & some metal		
2 1/2				
3		No odor or visual staining		
3 1/2				
4		No AD		
4 1/2				
5				
5 1/2				
6		Groundwater at 7'		
6 1/2				
7		Sampled at 2' & 5'		
7 1/2				
8		TP-203 (2)		
8 1/2		203 (5) 1205		
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

RT ENVIRONMENTAL

TP-204

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	
Boring#: TP-	Elevation:	Geologist: Thomas Donovan
Permit #: NA	Method: Backhoe	Operator: Anderson Construction
Start Date: November 14, 2007	End Date: November 14, 2007	Page 1 of 1

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0-7' Fill Material		
1				
1 1/2		Large pieces of concrete w/ rebar,		
2		cool ash, brick, pieces of building		
2 1/2		materials		
3				
3 1/2				
4		No odor or staining		
4 1/2				
5		No PID		
5 1/2				
6				
6 1/2		Groundwater at 7'		
7				
7 1/2		Sampled at 2' : 5'		
8				
8 1/2		→ - 204(2)		
9		204(5)		
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

1225

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: November 14, 2007	End Date: November 14, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0 - 7' Fill Material		
1				
1 1/2		Large pieces of concrete, some metal,		
2		coal ash, asphalt bedding at 3' bgs		
2 1/2				
3				
3 1/2		No odor or staining		
4				
4 1/2		No Pb		
5				
5 1/2		Groundwater at 7'		
6				
6 1/2		Sampled at 2' & 5'		
7				
7 1/2				
8		TP-205 (2)		
8 1/2		205 (5)	12-20	
9				
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

TEST PIT LOG

Proj. #: 70588-13	Proj. Name: Riverfront - PCB Delineation	Geologist: Thomas Donovan
Boring#: TP-	Elevation:	Operator: Anderson Construction
Permit #: NA	Method: Backhoe	Page 1 of 1
Start Date: November 14, 2007	End Date: November 14, 2007	

Depth (ft)	Sample Type & #	Description	PID	Remarks
1/2		0 - 6' Fill Material		
1				
1 1/2		Large pieces of concrete & stone		
2		coal ash, ceramic waste, some metal		
2 1/2				
3				
3 1/2		No odor, No staining		
4				
4 1/2		No PID		
5				
5 1/2				
6		Groundwater at 6'		
6 1/2				
7				
7 1/2		Sampled at 2' & 5'		
8				
8 1/2		TT-200(2) 1320		
9		200(5)		
9 1/2				
10				
10 1/2				
11				
11 1/2				
12				
12 1/2				
13				
13 1/2				
14				
14 1/2				
15				
15 1/2				
16				

**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
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FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: ICT ENV Bill To: SAME TAT: STD. 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.

Address: KOP Address: \_\_\_\_\_ Received:  ice  ambient DATE RESULTS NEEDED: \_\_\_\_\_

Report to: \_\_\_\_\_ Phone #: ( ) State & Program: PA DEP Phone #: ( )  
E-mail: D/CH Fax #: ( ) Terms: Net 30 days Deliverable Package:  NO  YES Temp. Upon Receipt: \_\_\_\_\_

If Yes, please explain: \_\_\_\_\_

Project Name: <u>Riverfront - PCB</u>	Project #/PO#: <u>70-88-13</u>	Sampler: <u>TD</u>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	SAMPLES FIELD RETURNED <input type="checkbox"/> YES <input type="checkbox"/> NO	PCB	ANALYSIS TYPE	SAMPLE CONTROL		LABORATORY ID NUMBER
						MeOH	NaHSO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH					NONE	CRACKED/BROKEN	
1	<u>TD-205 (2)</u>	PID: _____	<u>11/14</u>	<u>12<sup>50</sup></u>	<u>SOIL</u>							<u>1</u>	<u>1</u>	<u>X</u>				
2	<u>TD-205 (2)</u>	PID: _____		<u>12<sup>50</sup></u>														
3	<u>TD-206 (2)</u>	PID: _____		<u>13<sup>50</sup></u>														
4	<u>TD-206 (2)</u>	PID: _____		<u>13<sup>50</sup></u>														
5		PID: _____																
6		PID: _____																
7		PID: _____																
8		PID: _____																
9		PID: _____																
10		PID: _____																

RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME
<u>[Signature]</u>	<u>11/17</u>	<u>[Signature]</u>	<u>11/17</u>				
RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME	RELINQUISHED	DATE/TIME	RECEIVED	DATE/TIME

COMMENTS: HOLD ALL

PAGE \_\_\_\_\_ OF \_\_\_\_\_



**CHAIN OF CUSTODY REPORT**

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1090 King Georges Post Rd  
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Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: <b>RT ENV</b>		Bill To: <b>SAME</b>		TAT: STD. <b>5 DAY</b> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <b>KOP</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient	
		Terms: <b>Net 30 days</b>		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
Report to: <b>CA/ →</b>		State & Program: <b>PA DEP</b>		DATE RESULTS NEEDED:	
E-mail: <b>CA/ →</b>		Phone #: ( ) Fax #: ( )		Temp. Upon Receipt:	
				If Yes, please explain:	

Project Name: <b>Riverfront - PCB</b>	Project #/PO#: <b>7078-12</b>	Sampler: <b>→</b>	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO	PCB	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
						MeOH	H <sub>2</sub> SO <sub>4</sub>	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE						
<b>FIELD LOCATION</b>																		
1	→-200(1)	PID:	11/14	9:00	Soil													
2	→-200(4)	PID:		9:00														
3	→-201(2)	PID:		9:30														
4	→-201(5)	PID:		9:30														
5	→-202(5)	PID:		9:50														
6	→-202(7)	PID:		9:50														
7	→-203(2)	PID:		12:00														
8	→-203(5)	PID:		12:00														
9	→-204(2)	PID:		12:00														
10	→-204(5)	PID:		12:00														

RELINQUISHED	DATE: <b>11/14/07</b>	RECEIVED	DATE: <b>11/17</b>	RELINQUISHED	DATE	RECEIVED	DATE
	TIME: <b>3</b>		TIME: <b>13</b>		TIME		TIME
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
	TIME		TIME		TIME		TIME

COMMENTS: **HOLD ALL**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

TP-200

Fill

GW at 6'  
wood, concrete, ash

Sampled 1' : 4'

TP-200(1) 900  
200(4)

TP-201

Concrete, ash brick  
etc.

Sampled 2' : 5'

TP-201(2) 900  
201(5)

GW at 6'

TP-202

Same

GW at 8'

Sampled 5' : 7'

TP-202(5) 900  
202(7)

TP-203

Same

GW at 7'

Sampled 2' : 5'

TP-203(2) 1250  
203(5)

TP-204

Same

GW at 7'

Sampled at 2' : 5'

TP-204(2) 1225  
204(5)

TP-205

Same

Asphalt 3' bgs

GW at 7'

Sampled at 2' : 5'

TP-205(2) 1250  
205(5)

TP-206

Same

GW at 6'

Sampled at 2' : 5'

TP-206(2) 1300  
206(5)

**Appendix C – Test Pit Logs (KEM)**

**TABLE 1**  
**Test Pit Summaries**  
**Anderson Property Phase II**  
**Beach and Richmond Streets**  
**Philadelphia, Pennsylvania**  
**KEM Project No. 7311**

Test Pit ID	Total Depth	Sample Depth	Depth-to-Water	Description	PID
TP-1	12	1.5	10	0 - 4 Tan/brown to black silty Sand, rock. 4 - 8 Brick, crushed concrete - Old foundation? 8 - 12 Grey/tan fine sandy Silt, trace clay. Moist at 9 ft., wet at 12 ft.	0 0
TP-2	6.7	None	NE	0 - 4 Tan/brown silty coarse to fine Sand with frequent brick, rock 4 - 6.7 Black asphalt on 2.5-foot thick concrete slab. Two pipes running parallel to river at 6.7 ft.	0 0
TP-3	10	8.0	9	0 - 10 Tan/brown/black to red/grey silty coarse to fine Sand with frequent rock and wood. Saturated wood chip layer at 9 feet with strong oil odor. Oil sheen on water in bottom of pit.	0 63
TP-4	11	None	8	0 - 1 Black to tan silty coarse to fine Sand with cinders, porcelain, ash. 1 - 7.5 Grey/white to red sandy Silt with ash, wood, brick. 7.5 - 1 Grey/brown silty fine Sand. Wet at 8 ft. with oil odor.	0 0 100
TP-5	10	2.0	9	0 - 3.5 Tan/brown to black silty coarse to fine Sand with frequent rock, brick. 3.5 - 9 Grey, fine sand with small gravel, hard, 12-inch diameter pipe at 5.5 feet. 9 - 10 Tan/brown fine sandy Silt, wet.	0 0 1
TP-6	11	None	10.5	0 - 11 Tan/brown silty coarse to fine Sand with frequent brick and rock, metal, pieces of reinforced concrete, wood. Water at 10.5 feet.	0
TP-7	8	None	7	0 - 2 Black asphalt with gravel base. 2 - 4 tan/brown silty coarse to fine Sand with frequent rock, some brick, wood. 4 - 8 Tan/brown coarse to fine Sand with granite blocks. 2-inch diameter pipe at 4 ft. parallel to river. Concrete wall to 6 feet on south side of pit, concrete slab 1-3 feet on north side of pit.	0



**TABLE 1**  
**Test Pit Summaries**  
**Anderson Property Phase II**  
**Beach and Richmond Streets**  
**Philadelphia, Pennsylvania**  
**KEM Project No. 7311**

Test Pit ID	Total Depth	Sample Depth	Depth-to-Water	Description	PID
TP-8	8	4.0	8	0 - 4 Brown/tan to black silty coarse to fine Sand with rock, brick wood, metal. 12-inch thick concrete slab along western edge of pit at 0-1 ft. 4 - 6 Black to grey/yellow clayed silty sand with ceramic, rock, chemical odor. 6 - 8 Black/brown silty Sand.	0 2.5 8.2
TP-9	11	4.0	11	0 - 2 Brown silty coarse to fine Sand with frequent rock. 2 - 11 Dark brown to black silty coarse to fine sand with rock, brick, large timbers, creosote odor, pieces of reinforced concrete, large boulders, metal. Vertical concrete wall from 2 to 11 ft. in west wall of pit. Water in pit at 11 f. no odor or sheen.	0 0
TP-10	5	None	NE	0 - 5 Tan/brown silty coarse to fine Sand, brick, rock, gravel. 2.5 - 5 Intersecting concrete walls along west and north sides of pit. Four pipes parallel to river in conduit through wall in west side of pit. No PID response from pipes or soil. Coarse Sand with river rock below pipes.	0 0
TP-11	12	4.5	11	0 - 3 Tan/brown silty coarse to fine Sand, river rock, brick, wood wire cable. 3 - 5 Black/white silty coarse to fine Sand with brick. 5 -12 Tan/brown to yellow silty coarse to fine Sand with rock, brick.	0 0 0
TP-12	12	8.0	11	0 - 7 Brown silty coarse to fine Sand with frequent rock, brick, gravel, fabric, metal. 7 - 8 Grey/white weathered schist as silty Sand. 8 - 12 Grey/green clayey Silt with sand and rock, oil odor. Brown oil sheen on water at 11 ft.	0 60 51
TP-13	12	None	11.5	0 - 5.5 Tan/brown silty coarse to fine Sand with rock. 5.5 - 12 Dark brown silty micaceous coarse to fine Sand, rock, brick, pieces of reinforced concrete. Water at 11.5 - no odor or sheen.	0 0



**TABLE 1**  
**Test Pit Summaries**  
**Anderson Property Phase II**  
**Beach and Richmond Streets**  
**Philadelphia, Pennsylvania**  
**KEM Project No. 7311**

Test Pit ID	Total Depth	Sample Depth	Depth-to-Water	Description	PID
TP-14	9	5.0	8	0 - 1.5 Tan/brown silty coarse to fine Sand, river rock. 1.5 - 8 Black/brown silty Sand with asphalt, metal, brick, ceramic. 8 Black seam with slight oil odor. Water entering pit. No sheen.	0 0 2.8
TP-15	9	None	NE	0 - 4 Tan/brown silty coarse to fine Sand. Wire in metal conduit at 0.5 foot. 4 - 5 Black asphalt pavement with gravel sub base. 5-8 Tan/brown fine sandy Silt. 8 - 9 Black/brown to grey silty coarse to fine Sand with rock. 9 - Wood planks perpendicular to river. Planks not penetrated, but apparent void below planks.	0 0
TP-16	11	7.5	11	0 - 4 Tan/brown silty coarse to fine Sand with frequent rock, river rock, concrete. 4 - 10 Dark brown to grey silty coarse to fine Sand with rock, brick, metals, wire, glass. 10 - 11 Grey sandy Silt, wet, collapsing walls.	0 3.5 0
TP-17	12	None	11.5	0 - 5 Tan/brown silty micaceous coarse to fine Sand with frequent rocks. 5 - 9 Dark grey to brown silty coarse to fine Sand with rock, brick, glass. 9 - 11 Brown to black silty coarse to fine Sand with brick. 11 - 12 Tan/yellow weathered concrete. Water at 11.5 feet - no odor or sheen.	0 0 0 0
TP-18	13	None	12.5	0 - 1.5 Brown sandy Silt. 1.5 - 3 Tan/brown silty coarse to fine Sand with brick, plastic, concrete foundation. 3 - 5 Tan/yellow very micaceous fine sandy silt. Vertical concrete wall in west wall of pit to 5 feet with timbers below. 5 - 13 Grey/brown sandy Silt, trace clay with large (18x22 inches) timber at 6 ft., additional timbers at 11 feet. Water at 12.5 ft. - no odor or sheen.	0 0 0



**Appendix D – PNDI and ECS Ecological Assessment Report**

## 1. PROJECT INFORMATION

Project Name: **Beach St**

Date of Review: **10/18/2018 04:58:56 PM**

Project Category: **Hazardous Waste Clean-up, Site Remediation, and Reclamation, Other**

Project Area: **39.50 acres**

County(s): **Philadelphia**

Township/Municipality(s): **PHILADELPHIA**

ZIP Code: **19125**

Quadrangle Name(s): **CAMDEN**

Watersheds HUC 8: **Lower Delaware**

Watersheds HUC 12: **Petty Island-Delaware River**

Decimal Degrees: **39.970820, -75.118412**

Degrees Minutes Seconds: **39° 58' 14.9536" N, 75° 7' 6.2814" W**

## 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.



### Beach St



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community  
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community



### Beach St



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community  
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS,



### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

##### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Endangered
Sensitive Species**		Endangered
Sensitive Species**		Threatened

#### U.S. Fish and Wildlife Service

##### RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email\* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

**\*Note:** U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

### Check-list of Minimum Materials to be submitted:

\_\_\_ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

**In addition to the materials listed above, USFWS REQUIRES the following**

\_\_\_ **SIGNED** copy of a Final Project Environmental Review Receipt

### The inclusion of the following information may expedite the review process.

\_\_\_ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

\_\_\_ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552  
Harrisburg, PA 17105-8552  
Email: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)

### U.S. Fish and Wildlife Service

Pennsylvania Field Office  
Endangered Species Section  
110 Radnor Rd; Suite 101  
State College, PA 16801  
NO Faxes Please

### PA Fish and Boat Commission

Division of Environmental Services  
595 E. Rolling Ridge Dr., Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### PA Game Commission

Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Craig Herr  
Company/Business Name: RT Environmental Services, Inc.  
Address: 215 West Church Road  
City, State, Zip: King of Prussia, PA 19406  
Phone: (610) 265-1510 Fax: (610) 265-0687  
Email: cherr@rtenv.com

## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

*Craig Herr*

applicant/project proponent signature

3/26/2019

date



## Pennsylvania Fish & Boat Commission

---

**Division of Environmental Services**  
Natural Diversity Section  
595 E Rolling Ridge Dr.  
Bellefonte, PA 16823  
814-359-5237

October 30, 2018

**IN REPLY REFER TO**  
SIR# 50275

RT Environmental Services, Inc.  
Craig Herr  
215 W. Church Road  
King of Prussia, Pennsylvania 19406

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 668647\_1  
Beach Street  
PHILADELPHIA County: Philadelphia City**

Dear Craig Herr:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

Per my request, you supplied additional information regarding the project. According to the additional information, the current project activities should not impact Atlantic Sturgeon (*Acipenser oxyrinchus*), Shortnose Sturgeon (*Acipenser brevirostrum*) and Eastern Redbelly Turtle (*Pseudemys rubriventris*). Therefore, I do not foresee the proposed project resulting in adverse impacts to these species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

**Our Mission:**

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.*

**If you have any questions regarding this review, please contact Sean Hartzell at [sehartzell@pa.gov](mailto:sehartzell@pa.gov) or 814-359-5239 and refer to the SIR # 50275.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large initial 'C'.

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/SH/dn



April 2, 2019

Mr. Craig Herr, P.G., LSRP  
RT Environmental Services, Inc.  
215 West Church Road  
King of Prussia, PA 19406

ECS Project No. 47-7006

*Reference: Cramp Shipyard Ecological Assessment  
Richmond and Beach Streets  
Philadelphia, Pennsylvania*

Dear Mr. Herr:

ECS Mid-Atlantic, LLC (ECS) is pleased to present you with the results of our ecological assessment performed for the above-referenced property. Our credentials to perform this assessment are attached.

The project site is located at 2001 Richmond Street and 2005 Richmond Street, in the City of Philadelphia, Pennsylvania. (Figure 1). The site is the former William Cramp & Sons Ship and Engine Building Company and is comprised of unimproved land along the Delaware River.

ECS was tasked to perform a site-specific ecological assessment of the site in connection with the preparation of an Act 2 Report for groundwater. An ECS Biologist visited the site on October 9, 2018. The site is an unimproved site that consists of open meadow and early successional forest dominated by staghorn sumac. Approximately 3,000 feet of the site abuts the Delaware River. Much of the river frontage was manipulated by dry docks and sheet piling with other evidence of past industrial use still evident. Species observed during the site reconnaissance included grey squirrel, common crow, mourning dove, and pigeon, common for this location.

A PNDI search identified the following species of ecological concern as potentially present at the site: short-nose and Atlantic sturgeons, bald eagle, and red-bellied turtle. ECS provides the following commentary associated with the potential for suitable habitat to be present on the subject site for these species.

**Short-nose and Atlantic Sturgeon (*Acipenser spp.*)**

The short-nose and Atlantic sturgeons are known to inhabit large tidal river systems. Adult sturgeon spawn in clean gravel in freshwater but can live in either fresh or salt water. Sturgeon are known to reside in the Delaware River and are likely to travel through this area to spawn and forage, although likely spawning habitat is not found in the project area. The adjoining shoreline of the subject site is primarily comprised of armored loading dock and filled areas, which do not provide suitable habitat for this species. Diffuse groundwater discharge from the site has been determined to meet surface water criteria protective of ecological receptors and would therefore not be expected to impact this species.



**Bald Eagle (*Haliaeetus leucocephalus*)**

The bald eagle is a large bird of prey that lives near open bodies of water and old-growth forests. Bald eagles are likely to forage along and in the Delaware River, but no roosting or nesting sites (i.e. large trees overlooking the River) were observed on the subject property which limits the bald eagles use of the subject property. No bald eagles were observed in the area at the time of our visit. Accordingly, there does not appear to be suitable bald eagle habitat on the subject site.

**Red-Bellied Turtle (*Pseudemys rubiventris*)**

The red-bellied turtle is known to inhabit lakes, rivers, and wetlands in the coastal areas of New Jersey, Pennsylvania, Maryland, Virginia, and North Carolina. Populations of red-bellied turtles are known to inhabit both the Schuylkill and the Delaware Rivers. Red-bellied turtles prefer open water systems that have large woody debris for basking habitat. Concrete and other fill debris were observed along the site's shoreline which could be suitable for basking turtles in some lower lying locations. Other areas of the site that are armored ship docking areas would not be considered suitable basking habitat. As a result, the site contains only marginal basking habitat and no turtles were observed on the site at the time of our site visit. Diffuse groundwater discharge from the site meets surface water criteria protective of ecological receptors and is therefore not expected to adversely affect the quality of the marginal basking habitat.

A letter from the Pennsylvania Fish and Boat Commission dated October 30, 2018 (copy attached) concluded that there would be no adverse impact to the identified species from the soil conditions at the site presented in the Act 2 Report. Based on its evaluation of the subject site, ECS concurs with the findings of the Pennsylvania Fish & Boat Commission.

Respectfully submitted,

**ECS Mid-Atlantic, LLC**



Vince Humenay  
Environmental Senior Project Manager



Adam Meurer, CHMM, PWS  
Principal



**ECS MID-ATLANTIC, LLC**

*"Setting the Standard for Service"*

Geotechnical • Construction Materials • Environmental • Facilities

## FIGURES



**FIGURE I: SITE LOCATION MAP**  
**PROJECT #47:7006—Cramp Shipyard**  
**RICHMOND & BEACH STREET**  
**CITY OF PHILADELPHIA**  
**PHILADELPHIA, PENNSYLVANIA**



NOT TO SCALE

ECOLOGICAL ASSESSMENT  
FOR RT ENVIRONMENTAL SERVICES  
OCTOBER 2018  
SOURCE: MY TOPO

ECS MID-ATLANTIC  
56 Grumbacher Road  
York, PA 17406  
717-767-4788





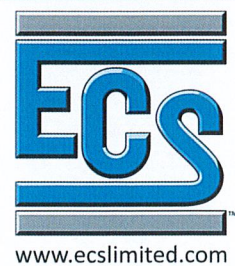
**FIGURE 2: Aerial Photograph**  
**PROJECT #47:7006—Cramp Shipyard**  
**RICHMOND & BEACH STREET**  
**CITY OF PHILADELPHIA**  
**PHILADELPHIA, PENNSYLVANIA**



NOT TO SCALE

ECOLOGICAL ASSESSMENT  
FOR RT ENVIRONMENTAL SERVICES  
OCTOBER 2018  
SOURCE: GOOGLE EARTH

ECS MID-ATLANTIC  
56 Grumbacher Road  
York, PA 17406  
717-767-4788





Photograph No. 1 – View of parking lot facing east



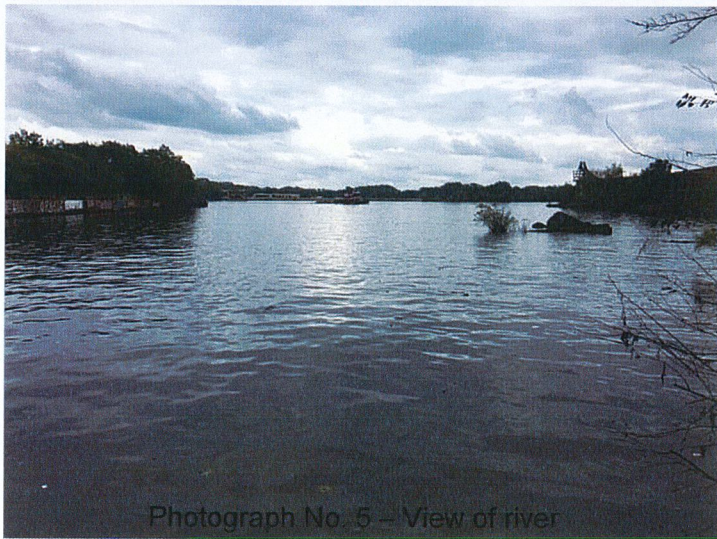
Photograph No. 2 – View of former shipyard bridge



Photograph No. 3 – View of former loading docks



Photograph No. 4 – View of former access road



Photograph No. 5 – View of river



Photograph No. 6 – View of river

CRAMP SHIPYARD  
RICHMOND STREET PHILADELPHIA, PA  
ECS PROJECT NO. 47:7006



ECOLOGICAL ASSESSMENT  
PERFORMED ON OCTOBER 9, 2018



Photograph No. 7 – View of sheet piling water's edge



Photograph No. 8 – View of River



Photograph No. 9 – View of floating wood debris



Photograph No. 10 – View of floating wood debris

CRAMP SHIPYARD  
RICHMOND STREET PHILADELPHIA, PA  
ECS PROJECT NO. 47:7006



ECOLOGICAL ASSESSMENT  
PERFORMED ON OCTOBER 9, 2018



# Vincent Humenay

---

## *Senior Environmental Project Manager*

### EDUCATION

Master of Environmental Pollution Control, 2002,  
Pollutants in Aquatic Systems/Stream Ecology,  
The Pennsylvania State University  
Bachelor of Science, 2000, Ecology / Zoology, Juniata  
College

### CERTIFICATIONS

PennDOT Environmental Compliance Training  
OSHA 30 hour training  
River Morphology and Applications  
Bog Turtle Ecology and Habitat Training  
EPA Watershed Management Training Certificate  
Watershed Management Conference  
Applied Fluvial Geomorphology  
Biodiversity Conservation Workshop  
Stream Restoration Workshop  
Army Corps of Engineers Regulatory IV wetland  
delineation training  
Dam Removal Workshop, Johns Hopkins University

### YEARS OF EXPERIENCE

ECS: 1 Other: 15

Mr. Humenay is a nationally known expert in dam removal, stream restoration, and fish passage projects. Mr. Humenay has performed ecological assessments across Pennsylvania and has conducted surveys for numerous species of special concern. Mr. Humenay is a state and federal regulatory specialist and has been involved in over 300 stream restoration and dam removal projects in the Mid-Atlantic Region.

### RELEVANT PROJECT EXPERIENCE

**Goodrich Dam Removal, Perkiomen Creek –**  
Performed Phase I habitat assessments for red-bellied turtles to assess potential impacts to these species by the removal of the Goodrich Dam.

**Vincent Dam, Schuylkill River -** Performed Phase I habitat assessments for red-bellied turtles and bald eagles to assess potential impacts to these species by the proposed dam removal.

### ADDITIONAL PROJECT EXPERIENCE

- Scotland Pond Dam Removal, Scotland, PA
- Rakes Dam Removal, Marshalls Creek, PA
- P3 Rapid Bridge Replacement, Wetlands and Archeological Coordination, State College, PA
- Spoonville Dam Removal, East Granby, CT
- Solomon Creek Dam Removal, Wilkes-Barre, PA
- The Crossings at Harts Run Wetland Delineation and Regulatory Consultation, Pittsburgh, PA
- Cross Fork Creek Aquatic Organism Passage Project, Cross Fork, PA
- Heminway Dam Removal, Watertown, CT
- Chester Creek Bank Protection and Aqua Penn Water Intake Stabilization, Chester, PA

## 1. PROJECT INFORMATION

Project Name: **Beach St Act 2 land Recycling Program project - Parcels B & C**

Date of Review: **1/19/2021 03:05:30 PM**

Project Category: **Development, Other**

Project Area: **15.85 acres**

County(s): **Philadelphia**

Township/Municipality(s): **PHILADELPHIA**

ZIP Code:

Quadrangle Name(s): **CAMDEN**

Watersheds HUC 8: **Lower Delaware**

Watersheds HUC 12: **Petty Island-Delaware River**

Decimal Degrees: **39.969824, -75.120444**

Degrees Minutes Seconds: **39° 58' 11.3652" N, 75° 7' 13.5984" W**

## 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

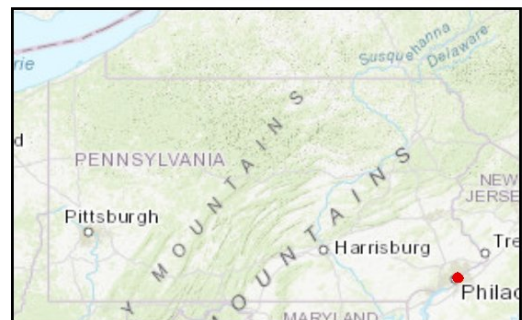
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.



## Beach St Act 2 land Recycling Program project - Parcels B & C



- Project Boundary
- Buffered Project Boundary



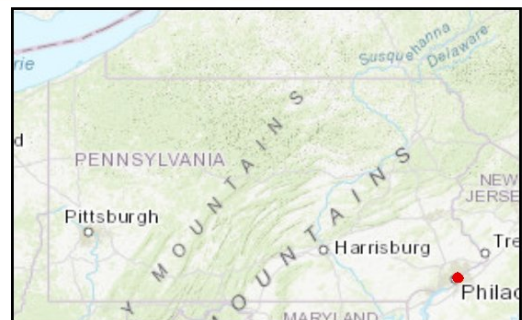
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community  
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

## Beach St Act 2 land Recycling Program project - Parcels B & C



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

##### RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Endangered
Sensitive Species**		Endangered
Sensitive Species**		Threatened

#### U.S. Fish and Wildlife Service

##### RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email\* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

### Check-list of Minimum Materials to be submitted:

\_\_\_ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

**In addition to the materials listed above, USFWS REQUIRES the following**

\_\_\_ **SIGNED** copy of a Final Project Environmental Review Receipt

### The inclusion of the following information may expedite the review process.

\_\_\_ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

\_\_\_ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552  
Harrisburg, PA 17105-8552  
Email: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)

### PA Fish and Boat Commission

Division of Environmental Services  
595 E. Rolling Ridge Dr., Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### U.S. Fish and Wildlife Service

Pennsylvania Field Office  
Endangered Species Section  
110 Radnor Rd; Suite 101  
State College, PA 16801  
Email: [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov)  
NO Faxes Please

### PA Game Commission

Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: Craig Herr  
Company/Business Name: RT Environmental  
Address: 215 W. Church Rd  
City, State, Zip: King of Prussia, PA 19406  
Phone: (610) 265-1510 Fax: (610) 265-0687  
Email: cherr@rtenu.com

## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Craig Herr  
applicant/project proponent/signature

3.2-2021  
date



## Pennsylvania Fish & Boat Commission

---

**Division of Environmental Services**  
Natural Diversity Section  
595 E Rolling Ridge Dr.  
Bellefonte, PA 16823  
814-359-5237

January 28, 2021

**IN REPLY REFER TO**  
SIR# 53983

RT Environmental Services, Inc.  
Craig Herr  
215 W. Church Road  
King of Prussia, Pennsylvania 19406

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 725494\_1  
Beach St Act 2 Land Recycling Program Project - Parcels B & C  
PHILADELPHIA County: Philadelphia City**

Dear Craig Herr:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

**Atlantic Sturgeon (*Acipenser oxyrinchus*, Endangered)  
Shortnose Sturgeon (*Acipenser brevirostrum*, Endangered)  
Northern Red-bellied Cooter (*Pseudemys rubriventris*, Threatened)**

**If wetlands, vernal pools, the Delaware River, streams, or ponds or the area within 300ft of these water features are to be disturbed from future project activity**, we will need to conduct a more thorough evaluation of the potential adverse impacts to the species of concern. Items **such as:** basic project plans, project narrative, general habitat descriptions, and color photographs keyed to a site map or diagram of the project area, wetlands identification and delineation, stream characterization (flow velocity, width, depth, substrate type, pools and riffles, identification of basking areas, logs, woody debris, presence of aquatic vegetation) would expedite our review process. Follow-up information may be uploaded to the PA Conservation Explorer site PNDI project file. Pending the review of information, a habitat assessment or survey targeting the presence of the species of concern may be warranted.

**However, if wetlands, vernal pools, or water bodies or the area within 300ft of these water**

**Our Mission:**

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.*

**features are not to be disturbed in any way by proposed activities**, and provided that best management practices are employed and strict erosion and sedimentation measures are maintained, I do not foresee any adverse impacts to the Atlantic Sturgeon (*Acipenser oxyrinchus*), Shortnose Sturgeon (*Acipenser brevirostrum*) or Northern Red-bellied Cooter (*Pseudemys rubriventris*) from the proposed project.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

**If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 53983.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/KDG/dn



**Photo 1:** View of the river shoreline on Parcel B looking down river



**Photo 2:** View on Parcel B looking northeast

**Client:** Dyott Corporation and Columbus Boulevard Associates  
**Site Name:** Former Cramp Shipyard Site, Parcels B & C

**Site Location:** 2001 Richmond St. & 2005 Richmond St., Philadelphia, Pennsylvania  
**Project Number:** 70588-22





**Photo 3:** View of the shoreline on Parcel B looking due east toward the Delaware River



**Photo 4:** View of the shoreline on Parcel B looking up river

**Client:** Dyott Corporation and Columbus Boulevard Associates  
**Site Name:** Former Cramp Shipyard Site, Parcels B & C

**Site Location:** 2001 Richmond St. & 2005 Richmond St., Philadelphia, Pennsylvania  
**Project Number:** 70588-22



**Photo 5:** View of the shoreline from Parcel B looking downriver



**Photo 6:** View of Parcel B (Parcel C in background) looking due West

**Client:** Dyott Corporation and Columbus Boulevard Associates  
**Site Name:** Former Cramp Shipyard Site, Parcels B & C

**Site Location:** 2001 Richmond St. & 2005 Richmond St., Philadelphia, Pennsylvania  
**Project Number:** 70588-22

## **Appendix E – EPA Correspondance**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

APR 24 2019

Mr. Marc E. Gold  
Manko, Gold, Katcher & Fox, LLP  
401 City Avenue, Suite 901  
Bala Cynwyd, PA 19004

RE: Delaware Riverfront Parcels

Dear Mr. Gold:

This letter is in response to your April 4, 2019 letter and supporting documentation that was provided to the U.S. Environmental Protection Agency Region III (EPA) presenting your determination under 40 C.F.R. §761.50(b)(3)(i)(B) and (iii) regarding the polychlorinated biphenyl (PCB) remediation waste that has been documented as existing at the three adjoining parcels (Parcels A, B and C) located at 2001 Beach Street, 2001 Richmond Street and 2005 Richmond Street in Philadelphia, PA; collectively identified as the Delaware Riverfront Parcels.

The federal Toxic Substances and Control Act (TSCA), 15 U.S.C. Section 2605(e), and EPA implementing regulations at 40 C.F.R. Part 761 impose limitations and requirements for the cleanup and disposal of PCB remediation waste. Section 761.50(b)(3)(i)(B) of the PCB regulations provide that “any person responsible for PCB waste at as-found concentrations greater than or equal to 50 parts per million (ppm) that was either placed in a land disposal facility or otherwise released into the environment prior to April 18, 1978, regardless of the concentration of the spill or release, ....who unilaterally decides to dispose of that waste (for example, to obtain insurance or to sell the property), is not required to clean up in accordance with 40 C.F.R. §761.61. Disposal of the PCB remediation waste must comply with §761.61. However, cleanup of those wastes that is not in complete compliance with §761.61 will not afford the responsible party with relief from the applicable PCB regulations for that waste.” Section 761.50(b)(3)(iii) states that “the owner or operator of a site containing PCB remediation waste has the burden of proving the date that the waste was placed in a land disposal facility, spilled, or otherwise released into the environment, and the concentration of the spill.”

Your determination regarding the applicability of TSCA authority in this matter is that the PCBs were disposed, spilled or otherwise discharged onto the soils at the Delaware Riverfront Parcels prior to April 18, 1978 and that the PCB remediation waste is not required to be cleaned up in accordance with the regulations set forth at 40 C.F.R. §761.61.

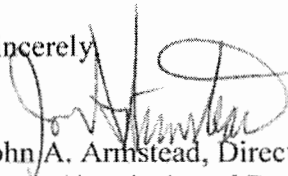


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Customer Service Hotline: 1-800-438-2474*

EPA has conducted a review of the information provided that pertains to the PCB remediation waste that has been identified and documented as existing at the Delaware Riverfront Parcels. The information provided was aerial photographs and soil sampling results for PCBs gathered over the last thirty years. Based upon this supporting information, EPA concurs with your assessment that a cleanup, in accordance with 40 C.F.R. §761.61, of the PCB remediation waste located at the Delaware Riverfront Parcels is not required because the PCBs were disposed, spilled or otherwise discharged prior to April 18, 1978.

Any questions concerning this matter should be directed to Ms. Kelly Bunker, PCB Coordinator at (215) 814-2177 or [bunker.kelly@epa.gov](mailto:bunker.kelly@epa.gov).

Sincerely

A handwritten signature in black ink, appearing to read "John A. Armistead". The signature is stylized and cursive, with a large initial "J" and "A".

John A. Armistead, Director  
Land, Chemicals and Redevelopment Division

**Appendix F – Public Involvement Meeting Information**



**Penn E&R**

Environmental & Remediation, Inc.

May 2, 2019  
HA007776

**VIA EMAIL & FEDEX**

Ms. Leigh Anne Rainford  
City of Philadelphia  
Department of Public Health  
321 University Ave.  
Philadelphia, PA 19104

Ms. Rebecca Flannery  
Geologic Specialist  
Pennsylvania Department of Environmental Protection  
Southeast Regional Office  
2 East Main Street  
Norristown, PA 19401

Subject: Report of Public Involvement Meeting  
2001 Beach Street (eFACTS PF No. 831556)  
2001 Richmond Street (eFACTS PF No.831661)  
2005 Richmond Street (eFACTS PF No.831562)  
City of Philadelphia, Philadelphia County, Pennsylvania

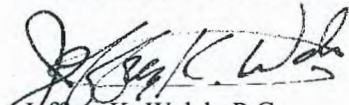
Dear Ms. Rainford and Ms. Flannery:

Pursuant with the February 22, 2019 Public Involvement Plan (PIP) for the above-referenced properties, a public meeting was held at Oxford Mills the evening of April 15, 2019. Notice of the public meeting was published in *The Philadelphia Daily News* on March 15, 2019. Documents regarding the properties were made available for public review in advance of the meeting at the Fishtown Community Library.

Representatives of the property owners and Concordia, a prospective purchaser of one of the three parcels, participated in the meeting by providing information and answering questions from those in attendance. Information presented included the results of the soil sampling that has been conducted on all three parcels. Questions from the attendees related to the environmental condition of the properties, plans for future remediation and site development, and dust control measures that will be implemented as the work progresses. The list of attendees is attached along with materials that were presented at the meeting. No additional questions regarding the properties have been received. As new reports are generated, they will be added to the library repository and notices of their availability will be provided to the public.

Should you have any questions regarding this information, please do not hesitate to contact me.

Sincerely,  
PENN ENVIRONMENTAL & REMEDIATION, INC.



Jeffrey K. Walsh, P.G.  
Vice President

Enclosures

cc: Devin Tuohey - The Concordia Group  
Mark Freed, Esq. - Curtin & Heefner LLP  
Thomas A. Petrecz and Mark Fortna - Penn E&R, Inc.  
Craig Hoogstraten - JJA Construction  
Fishtown Community Library



**2001 Beach Street - Public Meeting  
as part of the Public Involvement Plan (PIP)**

Date: April 15, 2019

Meeting Location: 100 West Oxford Street, Philadelphia, PA

Time: 6 to 8 pm

Print Name	PHONE	EMAIL	Signature
JEFF WALSH	267 710 7564	jkwalsh@penn-er.com	<i>[Signature]</i>
Mark Freed	267-898-0570	MLF@CurtinHeetner.com	<i>[Signature]</i>
Andrew Goodner	215-427-0350	agoodner@kcdc.org	<i>[Signature]</i>
Robert Everett	215 522 5200	r.everett@msw.com	<i>[Signature]</i>
EMILY ROMICK	609 617 7228	EMILY.ROMICK@GMAIL.COM	<i>[Signature]</i>
Cathleen Collins	845.464.9525	Catcollins43@gmail.com	<i>[Signature]</i>
Rich Bartnik	914.830.9918	RICHARD.BARTNIK@yahoo.com	<i>[Signature]</i>
Jana Curtis		JCURTISGM@gmail.com	<i>[Signature]</i>
Tom Beck	484-620-1817	tbeck@newspapermediagroup.com	<i>[Signature]</i>
Kathy Nickelle	267-975-6483	Knickay1@gmail.com	<i>[Signature]</i>
Shanta Schuchler	610-851-7060	shanta@wash4th.com	<i>[Signature]</i>
Rachel Kaminski	215-219-2432	tylorgal02@gmail.com	<i>[Signature]</i>

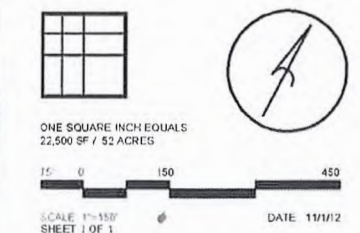




- BASE MAPPING SOURCES:**
- 1 Property outbounds shown here are taken from surveys prepared by Plum & Associates, dated 9-14-1992
  - 2 Adjoining parcels and street curblines from City of Philadelphia GIS data
  - 3 Floodplain information from FEMA Flood Insurance Rate Map Number 4207570201G, revised January 17, 2007 Zone AE of the Special Flood Hazard Area subject to inundation by the 1% annual chance flood Base flood elevation determined at 10 feet
  - 4 Aerial photography flown in 2010 from DVRPC

THIS DRAWING IS A SKETCH PLAN, TO BE USED STRICTLY FOR PLANNING AND ZONING PURPOSES. THIS DOCUMENT DOES NOT REPRESENT A SURVEY BY KENNEDY & ASSOCIATES, LLC. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION. PREPARED BY JOHN H. KENNEDY AICP, CERTIFIED PLANNER #8916. ALL RIGHTS RESERVED, JOHN H. KENNEDY & ASSOCIATES, LLC 2012

- LEGEND:**
- TITLE LINE
  - ZONING DISTRICT LINE (CMX-3)
  - PROPOSED I-95 RAMPS
  - PROPOSED I-95 WIDENING
  - PROPOSED DELAWARE AVENUE IMPROVEMENTS
  - NAVIGATIONAL AND RIPARIAN RIGHTS RELEASED (FEDERAL AND COMMONWEALTH RIGHTS OBTAINED)



**PARCEL DATA TABLE**

PROPERTY	PARCEL NAME	PARCEL NUMBER	ADDRESS	GROSS ACREAGE	CURRENT ZONING	NAVIGATIONAL and RIPARIAN RIGHTS
A	Beach Street Owner Beach Street Corp	88-504900068-17N 10-44	2001 Beach Street (formerly 2015 Richmond)	30.6638	CMX-3 Community Commercial Mixed Use District	Yes
B	Dyott Street Owner Dyott Corp	55-504850068-16N24-7	2001 Richmond Street	13.2274	CMX-3 Community Commercial Mixed Use District	Yes
C	Columbus Boulevard Owner Columbus Boulevard Associates, LP	88-504900068-17N 10-44	2005 Richmond Street	1.9393	CMX-3 Community Commercial Mixed Use District	N/A
TOTAL AREA				46.6606		

**DELAWARE RIVER**

**EXISTING CONDITIONS**

Riverfront Properties  
CITY OF PHILADELPHIA  
PHILADELPHIA COUNTY, PA

Columbus Blvd.  
Associates, LP  
6958 Torresdale Ave, Suite 200  
Philadelphia, PA 19135





RT Environmental Services, Inc.

VIA CERTIFIED MAIL – 70125 1010 0002 3230 0730  
Return Receipt Requested

March 9, 2021

Dr. Thomas Farley, M.D., M.P.H.  
Health Commissioner  
Environmental Engineering Section  
Philadelphia Department of Public Health  
1101 Market Street, Suite 1320  
Philadelphia, PA 19107  
(215) 685-5200  
[thomas.farley@phila.gov](mailto:thomas.farley@phila.gov)

**RE: PUBLIC INVOLVEMENT PLAN  
FORMER CRAMP SHIPYARD PARCELS B AND C  
eFACTS PF ID NO. 831661, 831562  
2001 AND 2005 RICHMOND STREETS  
CITY OF PHILADELPHIA  
PHILADELPHY COUNTY  
RT PROJECT # 70588-22**

Dear Dr. Farley:

On behalf of Dyott Corporation/Columbus Boulevard Associates, LP (Remediator), RT Environmental Services, Inc. continues to take the appropriate steps to inform the public about the remedial work that will take place at the above referenced site.

An updated copy of the Remedial Investigation Report (RIR)/Cleanup Plan has been made available for public review on the RT Environmental Services, Inc. website at [www.rtenv.com](http://www.rtenv.com) under Resources.

A notice of this report posting will be published in the Philadelphia Inquirer Newspaper on March 8<sup>th</sup>. The notice indicates that public comments may be submitted in writing within the next thirty (30) days to RT Environmental Services, Inc., 215 W. Church Road, King of Prussia, PA 19406, Attention: Mr. Craig Herr or via email to: [cherr@rtenv.com](mailto:cherr@rtenv.com) by April 8, 2021.

Please feel free to contact me if you have any questions at 610-265-1510 ext. 215.

Sincerely,

**RT ENVIRONMENTAL SERVICES, INC.**

Craig Herr, PG  
Senior Consultant

Y:\70500 SERIES\70588-22\2021 RIR Response B&C\PIP\PIP Health Dept Letter.docx



215 West Church Road ■ King of Prussia, PA 19406 ■ (610) 265-1510 ■ Fax: (610) 265-0687  
[rtenv@rtenv.com](mailto:rtenv@rtenv.com) ■ [www.rtenv.com](http://www.rtenv.com)

## Track Another Package +

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PHILADELPHIA, PA 19107

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**Tracking History**



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**Product Information**



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## Can't find what you're looking for?

Go to our [FAQs](#) section to find answers to your tracking questions.

## FAQs

Feedback



RT Environmental Services, Inc.

VIA CERTIFIED MAIL – 7012 1010 0002 3230 0723  
Return Receipt Requested

March 9, 2021

Mr. Mark Squilla, Council Member  
District 1  
City Hall, Room 332  
Philadelphia, PA 19107-3290  
(215) 686-3458  
(215) 686-3459

**RE: PUBLIC INVOLVEMENT PLAN  
FORMER CRAMP SHIPYARD PARCELS B AND C  
eFACTS PF ID NO. 831661, 831562  
2001 AND 2005 RICHMOND STREET  
CITY OF PHILADELPHIA  
PHILADELPHY COUNTY  
RT PROJECT # 70588-22**

Dear Mr. Squilla:

On behalf of Dyott Corporation/Columbus Boulevard Associates, LP (Remediator), RT Environmental Services, Inc. continues to take the appropriate steps to inform the public about the remedial work that will take place at the above referenced site.

An updated copy of the Remedial Investigation Report (RIR)/Cleanup Plan has been made available for public review on the RT Environmental Services, Inc. website at [www.rtenv.com](http://www.rtenv.com) under Resources.

A notice of this report posting will be published in the Philadelphia Inquirer Newspaper on March 8<sup>th</sup>. The notice indicates that public comments may be submitted in writing within the next thirty (30) days to RT Environmental Services, Inc., 215 W. Church Road, King of Prussia, PA 19406, Attention: Mr. Craig Herr or via email to: [cherr@rtenv.com](mailto:cherr@rtenv.com) by April 8, 2021.

Please feel free to contact me if you have any questions at 610-265-1510 ext. 215.

Sincerely,

**RT ENVIRONMENTAL SERVICES, INC.**

Craig Herr, PG  
Senior Consultant

Y:\70500 SERIES\70588-22\2021 RIR Response B&C\PIP\PIP Council March 2021.docx



215 West Church Road ■ King of Prussia, PA 19406 ■ (610) 265-1510 ■ Fax: (610) 265-0687  
[rtenv@rtenv.com](mailto:rtenv@rtenv.com) ■ [www.rtenv.com](http://www.rtenv.com)

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

*Thomas Farley  
 Phil. Health Dept -  
 1101 Mkt. St., Ste. 1320  
 Philadelphia, PA 19107*



9590 9402 3975 8079 5954 14

2. Article Number (Transfer from service label)

7012 1010 0002 3230 0730

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*x COVID-19*

- Agent
- Addressee

B. Received by (Printed Name)

*COVID-19*

C. Date of Delivery

*3-11-21*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Registered Mail Restricted Delivery (\$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE



9590 9402 3975 8079 5954 14

First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

United States Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

*Craig Herr*  
 RT Environmental Services, Inc.  
 215 West Church Road  
 King of Prussia, PA 19406-3207

*70588-22*

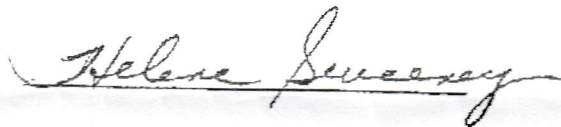
**Proof of Publication in The Philadelphia Daily News  
Under Act. No 587, Approved May 16, 1929**

*STATE OF PENNSYLVANIA  
COUNTY OF PHILADELPHIA*

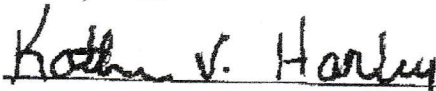
Helene Sweeney being duly sworn, deposes and says that **The Philadelphia Daily News** is a newspaper published daily, except Sunday, at Philadelphia, Pennsylvania, and was established in said city in 1925, since which date said newspaper has been regularly issued in said County, and that a copy of the printed notice of publication is attached hereto exactly as the same was printed and published in the regular editions and issues of the said newspaper on the following dates:

March 10, 2021

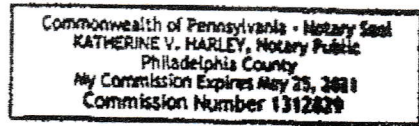
Affiant further deposes and says that she is an employee of the publisher of said newspaper and has been authorized to verify the foregoing statement and that she is not interested in the subject matter of the aforesaid notice of publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.



Sworn to and subscribed before me this 10th, day of March, 2021.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:



**Copy of Notice of Publication**

**NOTICE OF PUBLIC INVOLVEMENT  
PLAN DOCUMENT POSTING**

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, Act No. 1995-2 (the "Act"), notice is hereby given that Dyott Corporation/Columbus Boulevard Associates, LP (Remediator) continues to update the public with regards to the Public Meeting which was held on April 15, 2019 as part of the Public Involvement Plan (PIP) for the 2001 and 2005 Richmond Street property.

A public information website has been established at [www.rtenv.com](http://www.rtenv.com) under Resources which includes relevant documents regarding the remediation progress at this property. A copy of the October 2020, Revise March 5, 2021 document titled "Former Cramp shipyard Site Parcels B and C" (report) constitutes a combined remedial investigation report and cleanup plan as defined in Chapter 3. Updates to this report will be posted to the website as they become available.

Public comments may be submitted in writing within the next thirty (30) days to RT Environmental Services, Inc., 215 W. Church Road, King of Prussia, PA 19406, Attention: Mr. Craig Herr or via email to: [cherr@rtenv.com](mailto:cherr@rtenv.com) by April 5, 2021.

# Public Involvement Plan Notice - 2001 & 2005 Richmond Street



Craig Herr

To

Cc Craig Herr; 'John Lydzinski'

Bcc agoodman@nkcfdc.org; rcevertt@msn.com; emily.romick@gmail.com; catcollins43@gmail.com; Richardbartnik@yahoo.com; jcurtisgm@gmail.com; tbeck@newpapermediagrow.com; mickay1@gmail.com; shanta@north4th.com; tylergal02@gmail.com

Reply

Reply All

Forward



Tue 3/9/2021 5:32 PM

Dear Participant,

As a participant in the April 15, 2019 public meeting concerning the redevelopment of the former Cramp Shipyard Site Parcels B & C, the remediator (Dyott Corporation/Columbus Boulevard Associates, LP) would like to inform you of updated project information posted on the RT Environmental Services, Inc. (RT) website at [rtenv.com](http://rtenv.com) under Resources. As of March 9, 2021 a copy of the combined remedial investigation report and cleanup plan identified as "Former Cramp Shipyard Site Parcels B and C" has been posted for public review and comment. Public comments may be submitted in writing within the next thirty (30) days to RT Environmental Services, Inc., 215 W. Church Road, King of Prussia, PA 19406, Attention: Mr. Craig Herr or via email to: [cherr@rtenv.com](mailto:cherr@rtenv.com) by April 8, 2021.

John C. Lydzinski, PG  
RT Environmental Services, Inc.  
215 W Church Road  
King of Prussia, PA 19046  
610-265-1510 Ext. 211  
610-265-0687 (Fax)  
610-246-2502 (Cell)



**RT Environmental Services, Inc.**

[rtenv.com](http://rtenv.com) | Philadelphia • Pittsburgh • Bridgeport, NJ



**Appendix G – Municipal and Public Notifications**

For DEP Use Only
PF # _____
Rem ID # _____

## NOTICE OF INTENT TO REMEDIATE

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained (if known) and attach a scaled site map (if available).

Property Name 2005 Richmond Street

Former Name(s) / AKA Former Cramp Ship Yard (Parcel C)

Address / Location 2005 Richmond Street

City Philadelphia Zip Code 19125

Municipality(s) Philadelphia County(ies) Philadelphia

Latitude 39 ° (deg). 58 ' (min) 15.034 " (sec) Longitude 75 ° (deg). 7 ' (min) 18.825 " (sec)

Horizontal Collection Method \_\_\_\_\_

Horizontal Reference Datum \_\_\_\_\_ Reference Point \_\_\_\_\_

Wish to participate in the DEP/EPA MOA. Contact the Land Recycling Program Manager at [landrecycling@pa.gov](mailto:landrecycling@pa.gov) for details.

EPA ID#, if known \_\_\_\_\_

DEP ID#(s), if known \_\_\_\_\_

(i.e., eFACTS site ID#, storage tank facility ID#, water quality permit #, watershed permit, air quality permit #, etc.)

Date Release Occurred (if known) \_\_\_\_\_

Provide a brief description of the site contamination in plain language (e.g. fuel oil spill, historical chemical industrial area contamination), the names of any know primary contaminants to be addressed, and the intended future use of the property.

The site was a portion of a former ship repair and maintenance operation. Site soils have been found to be impacted with VOCs, metals, PAHs and PCBs. The proposed future use is undetermined, but may include mixed uses.

Provide a general description of proposed remediation measures.

The proposed remediation measures are currently unknown at this time but may include capping of impacted soils.

Remediation Standard(s) planned (if known at this time):

- |   |  |                                      |
|---|--|--------------------------------------|
| <input type="checkbox"/> Unknown at this time   | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Background Contaminants:   | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |
| <input checked="" type="checkbox"/> Statewide Health - Residential Contaminants: VOCs, PCBs | <input checked="" type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Statewide Health – Non-Residential Contaminants:                   | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |
| <input checked="" type="checkbox"/> Site Specific Contaminants: metals, PAHs                | <input checked="" type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Special Industrial Area* Contaminants:                             | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |

\*NOTE: Specific standard or Special Industrial Area require a 30-day municipal comment period

Remediator / Property Owner / Consultant. Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

<b>Remediator</b>		
Contact Person/Title <u>Craig Hoogstraten/Contracts Manager</u>	eFACTS Client ID* _____	
Relationship to Site <u>Remediator</u> (e.g. owner, remediator, participant in cleanup, consultant, etc.)	Client Type* _____	
Phone Number <u>215-331-7150</u>	Email Address <u>craigh@jjaconstruction.com</u>	
Company Name <u>Columbus Blvd. Associates</u>	EIN or Federal ID # _____	
Address (street, city, state, zip) <u>6958 Torresdale Avenue, Suite 200, Philadelphia, PA 19135</u>		

<b>Property Owner</b>		
Contact Person/Title <u>Craig Hoogstraten/Contracts Manager</u>	eFACTS Client ID* _____	
Relationship to Site <u>Property Owner</u> (e.g. owner, remediator, participant in cleanup, consultant, etc.)	Client Type* _____	
Phone Number <u>215-331-7150</u>	Email Address <u>craigh@jjaconstruction.com</u>	
Company Name <u>Columbus Blvd. Associates</u>	EIN or Federal ID # _____	
Address (street, city, state, zip) <u>6958 Torresdale Avenue, Suite 200, Philadelphia, PA 19135</u>		

<b>Consultant</b>		
Contact Person/Title <u>Craig Herr P.G.</u>	eFACTS Client ID* _____	
Relationship to Site <u>Consultant</u> (e.g. owner, remediator, participant in cleanup, consultant, etc.)	Client Type* _____	
Phone Number <u>215-265-1510</u>	Email Address <u>cherr@rtenv.com</u>	
Company Name <u>RT Environmental Services, Inc.</u>	EIN or Federal ID # _____	
Address (street, city, state, zip) <u>215 West Church Road, King of Prussia, PA 19406</u>		

*Include eFACTS Client ID (if known) – "Client Types" below:		
Association/Organization	Limited Liability company	Partnership-General
Authority	Limited Liability Partnership	Partnership-Limited
County	Municipality	School District
Estate/Trust	Non-Pennsylvania Government	Sole Proprietorship
Federal Agency	Other (Non-Government)	State Agency
Individual	Pennsylvania Corporation	

<b>Preparer of Notice of Intent to Remediate</b>		
Name <u>Darryl D. Borrelli</u>	Title <u>Technical Consultant</u>	
Phone Number <u>484-430-2302</u>	Email Address <u>dborrelli@mankogold.com</u>	
Company Name <u>Manko, Gold, Katcher &amp; Fox, LLP</u>	eFACTS Client ID _____	
Address (street, city, state, zip) <u>401 City Avenue, Suite 901, Bala Cynwyd, PA 19004</u>		

# MANKO | GOLD | KATCHER | FOX LLP

Darryl D. Borrelli  
484-430-2302  
dborrelli@mankogold.com

AN ENVIRONMENTAL AND ENERGY LAW PRACTICE

December 20, 2018

Via Certified Mail

Return Receipt Requested

Leigh Anne Rainford  
Sanitarian Supervisor, Environmental Engineering  
City of Philadelphia  
Department of Public Health  
321 University Avenue, 2<sup>nd</sup> Floor  
Philadelphia, PA 19104

401 CITY AVENUE, SUITE 901  
BALA CYNWYD, PA 19004  
TEL: 484-430-5700  
FAX: 484-430-5711  
WWW.MANKOGOLD.COM

A LIMITED LIABILITY PARTNERSHIP  
FORMED IN PENNSYLVANIA

Partner responsible:  
John F. Gullace (NJ)  
Brenda H. Gotanda (HI)

Re: 2005 Richmond Street  
Former Cramp Ship Yard – Parcel C  
City of Philadelphia, Philadelphia County

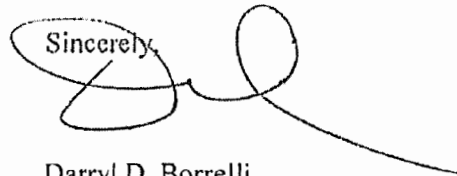
Dear Ms. Rainford:

The Land Recycling and Environmental Remediation Standards Act (“Act 2”) requires that a Notice of Intent to Remediate (“NIR”) be provided to the municipality in which the site is located. Act 2 also provides that when a site is being remediated to a Site-Specific Standard, the municipality is afforded a 30-day comment period. In accordance with the provisions of the Act, we are formally notifying you of Columbus Blvd. Associate’s intent to remediate soils at the subject site. A copy of the NIR, which will be sent to the Department of Environmental Protection (DEP), is enclosed. This notice will be published in the *Pennsylvania Bulletin* and a summary of the notice will appear in a local newspaper.

Publication of this notice in a local newspaper initiates the 30-day public and municipal comment period. During this time, your municipality may request to become involved in the development of the remediation and reuse plans for the site. If the municipality wishes to become involved in this project, please send your comments to me.

Should you have any questions, please contact me.

Sincerely,



Darryl D. Borrelli  
Technical Consultant

DDB/nav

Enclosure

cc: Craig Hoogstraten  
Craig Herr, PG  
Marc E. Gold, Esquire



**SENDER: COMPLETE THIS SECTION**

- Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lelgh Anne Rainford  
 Sanitarian Supervisor, Environmental Engineering  
 City of Philadelphia  
 Department of Public Health  
 321 University Avenue, 2nd Floor  
 Philadelphia, PA 19104

2. Article Number  
 (Transfer from service label)

7018 0360 0001 9554 2702

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from Item 1?  Yes  
 If YES, enter delivery address below:  No

Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

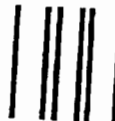
4. Restricted Delivery? (Extra Fee)  Yes

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

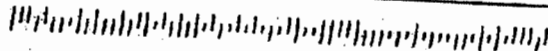
UNITED STATES POSTAL SERVICE



First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

*Darral Borrelli*  
**MANKO, GOLD, KATCHER & FOX, LLP**  
 401 E. CITY AVENUE, SUITE 901  
 BALA CYNWYD, PA 19004



Proof of Publication in The Philadelphia Daily News  
Under Act. No 587, Approved May 16, 1929

STATE OF PENNSYLVANIA  
COUNTY OF PHILADELPHIA

Helene Sweeney being duly sworn, deposes and says that **The Philadelphia Daily News** is a newspaper published daily, except Sunday, at Philadelphia, Pennsylvania, and was established in said city in 1925, since which date said newspaper has been regularly issued in said County, and that a copy of the printed notice of publication is attached hereto exactly as the same was printed and published in the regular editions and issues of the said newspaper on the following dates:

December 24, 2018

Affiant further deposes and says that she is an employee of the publisher of said newspaper and has been authorized to verify the foregoing statement and that she is not interested in the subject matter of the aforesaid notice of publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.

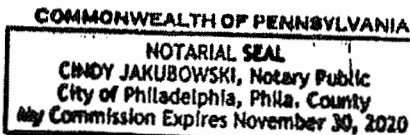


Sworn to and subscribed before me this 24th day of  
December, 2018.



Notary Public

My Commission Expires:



Copy of Notice of Publication

NOTICE

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 10, 1995, P.L. 4, No. 1995-2, ("Act 2"), notice is hereby given that Columbus Blvd. Associates has submitted to the Pennsylvania Department of Environmental Protection ("DEP") a Notice of Intent to Remediate ("NIR") a site located at 2005 Richmond Street, City of Philadelphia, Philadelphia County. This NIR states that site was a portion of a former ship repair and maintenance operation. Site soils have been found to be impacted with VOCs, metals, PAHs and PCBs. Columbus Blvd. Associates has indicated that the proposed remediation measures are unknown but may include capping of impacted soils. The proposed future use is undetermined, but may include mixed uses. Columbus Blvd. Associates plans to use the statewide health and site-specific standards at the site. The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until January 23, 2019, the City of Philadelphia may submit a request to Columbus Blvd. Associates to be involved in the development of the remediation and reuse plans for the site. The City of Philadelphia may also submit a request to Columbus Blvd. Associates during this 30-day comment period to develop and implement a public involvement plan. Copies of these requests and of any comments should also be submitted to DEP, Southeast Regional Office, 2 East Main Street, Norristown, PA 19381.



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

RECEIVED  
JAN 14 2019

January 9, 2019

Mr. Craig Hoogstraten  
Columbus Boulevard Associates  
6958 Torresdale Avenue, Suite 200  
Philadelphia, PA 19135

Re: Receipt of Notice of Intent to Remediate  
Site-Specific Standard/Statewide Health Standard  
2005 Richmond Street  
eFACTS PF No. 831562  
eFACTS Activity No. 52852/52853  
2005 Richmond Street  
City of Philadelphia  
Philadelphia County

Dear Mr. Hoogstraten:

This letter acknowledges receipt of your Notice of Intent to Remediate (NIR) on December 20, 2018, pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The procedures set forth in Act 2 must be followed in order for this site to qualify for the liability protection provided by the Act. The Department of Environmental Protection (DEP) will not accept plans and reports until after the 30-day comment period following submission of the NIR ends.

The 30-day comment period following submission of the NIR allows the municipality the opportunity to request to be involved in the development of remediation and reuse plans for the property. If the municipality requests a public involvement plan, any comments and responses must be included in any subsequent Site-Specific Standard reports. Remedial investigation reports, risk assessment reports, cleanup plans, and final reports submitted to DEP under the site-specific standard need to be accompanied by the required fees and documentation verifying compliance with the public notification requirements.

Additional technical and program information can be found at [www.dep.pa.gov](http://www.dep.pa.gov) (Business>Land>Land Recycling). Also, please refer to the Land Recycling checklists which are helpful in assuring reports are complete before submittal. DEP uses the checklists to perform administrative and technical completeness reviews when plans and/or reports are submitted. It is strongly encouraged to include the appropriate completed checklist with your Final Report submission. Land Recycling checklists can also be found at the website under 'Forms, Checklists & Notifications' link.



For DEP Use Only PF # _____ Rem ID # _____
--

## NOTICE OF INTENT TO REMEDIATE

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained (if known) and attach a scaled site map (if available).

Property Name 2001 Richmond Street

Former Name(s) / AKA Former Cramp Ship Yard (Parcel B)

Address / Location 2001 Richmond Street

City Philadelphia Zip Code 19125

Municipality(s) Philadelphia County(ies) Philadelphia

Latitude 39 ° (deg). 58 ' (min) 15.006 " (sec) Longitude 75 ° (deg). 7 ' (min) 18.951 " (sec)

Horizontal Collection Method \_\_\_\_\_

Horizontal Reference Datum \_\_\_\_\_ Reference Point \_\_\_\_\_

Wish to participate in the DEP/EPA MOA. Contact the Land Recycling Program Manager at [landrecycling@pa.gov](mailto:landrecycling@pa.gov) for details.

EPA ID#, if known \_\_\_\_\_

DEP ID#(s), if known \_\_\_\_\_  
 (i.e., eFACTS site ID#, storage tank facility ID#, water quality permit #, watershed permit, air quality permit #, etc.)

Date Release Occurred (if known) \_\_\_\_\_

Provide a brief description of the site contamination in plain language (e.g. fuel oil spill, historical chemical industrial area contamination), the names of any know primary contaminants to be addressed, and the intended future use of the property.

The site was a portion of a former ship repair and maintenance operation. Site soils have been found to be impacted with VOCs, metals, PAHs and PCBs. The proposed future use is undetermined, but may include mixed uses.

Provide a general description of proposed remediation measures.

The proposed remediation measures are currently unknown at this time but may include capping of impacted soils.



Remediation Standard(s) planned (if known at this time):

- |   |  |                                      |
|---|--|--------------------------------------|
| <input type="checkbox"/> Unknown at this time   | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Background Contaminants:                                     | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |
| <input checked="" type="checkbox"/> Statewide Health - Residential Contaminants: VOCs | <input checked="" type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Statewide Health - Non-Residential Contaminants:             | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |
| <input checked="" type="checkbox"/> Site Specific Contaminants: PCBs, PAHs, metals    | <input checked="" type="checkbox"/> Soil | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Special Industrial Area* Contaminants:                       | <input type="checkbox"/> Soil            | <input type="checkbox"/> Groundwater |

\*NOTE: Specific standard or Special Industrial Area require a 30-day municipal comment period Remediator / Property Owner / Consultant. Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

<b>Remediator</b>		
Contact Person/Title <u>Craig Hoogstraten/Contracts Manager</u>	eFACTS Client ID* _____	
Relationship to Site <u>Remediator</u> (e.g. owner, remediator, participant in cleanup, consultant, etc.)	Client Type* _____	
Phone Number <u>215-331-7150</u>	Email Address <u>craigh@jjaconstruction.com</u>	
Company Name <u>Dyott Corp.</u>	EIN or Federal ID # _____	
Address (street, city, state, zip) <u>6958 Torresdale Avenue, Suite 200, Philadelphia, PA 19135</u>		

<b>Property Owner</b>		
Contact Person/Title <u>Craig Hoogstraten/Contracts Manager</u>	eFACTS Client ID* _____	
Relationship to Site <u>Property Owner</u> (e.g. owner, remediator, participant in cleanup, consultant, etc.)	Client Type* _____	
Phone Number <u>215-331-7150</u>	Email Address <u>craigh@jjaconstruction.com</u>	
Company Name <u>Dyott Corp.</u>	EIN or Federal ID # _____	
Address (street, city, state, zip) <u>6958 Torresdale Avenue, Suite 200, Philadelphia, PA 19135</u>		

<b>Consultant</b>		
Contact Person/Title <u>Craig Herr P.G.</u>	eFACTS Client ID* _____	
Relationship to Site <u>Consultant</u> (e.g. owner, remediator, participant in cleanup, consultant, etc.)	Client Type* _____	
Phone Number <u>215-265-1510</u>	Email Address <u>cherr@rtenv.com</u>	
Company Name <u>RT Environmental Services, Inc.</u>	EIN or Federal ID # _____	
Address (street, city, state, zip) <u>215 West Church Road, King of Prussia, PA 19406</u>		

\*Include eFACTS Client ID (if known) – "Client Types" below:

Association/Organization	Limited Liability company	Partnership-General
Authority	Limited Liability Partnership	Partnership-Limited
County	Municipality	School District
Estate/Trust	Non-Pennsylvania Government	Sole Proprietorship
Federal Agency	Other (Non-Government)	State Agency
Individual	Pennsylvania Corporation	

<b>Preparer of Notice of Intent to Remediate</b>		
Name <u>Darryl D. Borrelli</u>	Title <u>Technical Consultant</u>	
Phone Number <u>484-430-2302</u>	Email Address <u>dborrelli@mankogold.com</u>	
Company Name <u>Manko, Gold, Katcher &amp; Fox, LLP</u>	eFACTS Client ID _____	
Address (street, city, state, zip) <u>401 City Avenue, Suite 901, Bala Cynwyd, PA 19004</u>		

# MANKO | GOLD | KATCHER | FOX LLP

Darryl D. Borrelli  
484-430-2302  
dborrelli@mankogold.com

AN ENVIRONMENTAL AND ENERGY LAW PRACTICE

December 20, 2018

Via Certified Mail

Return Receipt Requested

Leigh Anne Rainford  
Sanitarian Supervisor, Environmental Engineering  
City of Philadelphia  
Department of Public Health  
321 University Avenue, 2<sup>nd</sup> Floor  
Philadelphia, PA 19104

401 CITY AVENUE, SUITE 901  
BALA CYNWYD, PA 19004  
TEL: 484-430-5700  
FAX: 484-430-5711  
WWW.MANKOGOLD.COM

A LIMITED LIABILITY PARTNERSHIP  
FORMED IN PENNSYLVANIA

Partner responsible:  
John F. Gullace (NJ)  
Brenda H. Gotanda (HI)

Re: 2001 Richmond Street  
Former Cramp Ship Yard – Parcel B  
City of Philadelphia, Philadelphia County

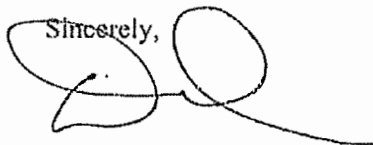
Dear Ms. Rainford:

The Land Recycling and Environmental Remediation Standards Act (“Act 2”) requires that a Notice of Intent to Remediate (“NIR”) be provided to the municipality in which the site is located. Act 2 also provides that when a site is being remediated to a Site-Specific Standard, the municipality is afforded a 30-day comment period. In accordance with the provisions of the Act, we are formally notifying you of Dyott Corp.’s intent to remediate soils at the subject site. A copy of the NIR, which will be sent to the Department of Environmental Protection (DEP), is enclosed. This notice will be published in the *Pennsylvania Bulletin* and a summary of the notice will appear in a local newspaper.

Publication of this notice in a local newspaper initiates the 30-day public and municipal comment period. During this time, your municipality may request to become involved in the development of the remediation and reuse plans for the site. If the municipality wishes to become involved in this project, please send your comments to me.

Should you have any questions, please contact me.

Sincerely,



Darryl D. Borrelli  
Technical Consultant

DDB/nav  
Enclosure

cc: Craig Hoogstraten  
Craig Herr, PG  
Marc E. Gold, Esquire



**SENDER: COMPLETE THIS SECTION**

- Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Leigh Anne Rainford  
 Sanitarian Supervisor, Environmental Engineering  
 City of Philadelphia  
 Department of Public Health  
 321 University Avenue, 2nd Floor  
 Philadelphia, PA 19104

2. Article Number  
 (Transfer from service label)

7018 0360 0001 9554 2719

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from Item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Certified Mail	<input type="checkbox"/> Express Mail
<input type="checkbox"/> Registered	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Insured Mail	<input type="checkbox"/> C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

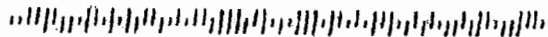
UNITED STATES POSTAL SERVICE



First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

*Darryl Borrelli*  
**MANKO, GOLD, KATCHER & FOX, LLP**  
 401 E. CITY AVENUE, SUITE 901  
 BALA CYNWYD, PA 19004



Proof of Publication in The Philadelphia Daily News  
Under Act. No 587, Approved May 16, 1929

STATE OF PENNSYLVANIA  
COUNTY OF PHILADELPHIA

Helene Sweeney being duly sworn, deposes and says that **The Philadelphia Daily News** is a newspaper published daily, except Sunday, at Philadelphia, Pennsylvania, and was established in said city in 1925, since which date said newspaper has been regularly issued in said County, and that a copy of the printed notice of publication is attached hereto exactly as the same was printed and published in the regular editions and issues of the said newspaper on the following dates:

December 24, 2018

Affiant further deposes and says that she is an employee of the publisher of said newspaper and has been authorized to verify the foregoing statement and that she is not interested in the subject matter of the aforesaid notice of publication, and that all allegations in the foregoing statement as to time, place and character of publication are true.

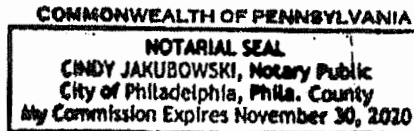


Sworn to and subscribed before me this 24th day of  
December, 2018.



*Cindy Jakubowski*  
Notary Public

My Commission Expires:



Copy of Notice of Publication

**NOTICE**

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1988, P.L. 4, No. 1988-2, ("Act 2"), notice is hereby given that Dyott Corp. has submitted to the Pennsylvania Department of Environmental Protection ("DEP") a Notice of Intent to Remediate ("NIR") a site located at 2001 Richmond Street, City of Philadelphia, Philadelphia County. This NIR states that site was a portion of a former ship repair and maintenance operation. Site soils have been found to be impacted with VOCs, metals, PAHs and PCBs. Dyott Corp. has indicated that the proposed remediation measures are currently unknown but may include the capping of impacted soils. The proposed future use is undetermined, but may include mixed uses. Dyott Corp. plans to use the statewide health and site-specific standards of the site. The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until January 23, 2019, the City of Philadelphia may submit a request to Dyott Corp. to be involved in the development of the remediation and reuse plans for the site. The City of Philadelphia may also submit a request to Dyott Corp. during this 30-day comment period to develop and implement a public involvement plan. Copies of these requests and of any comments should also be submitted to DEP, Southeast Regional Office, 2 East Main Street, Norristown, PA 19381.



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

RECEIVED  
JAN 17 2019  
BY: .....

January 11, 2019

Mr. Craig Hoogstraten  
Dyott Corporation  
6958 Torresdale Avenue, Suite 200  
Philadelphia, PA 19135

Re: Receipt of Notice of Intent to Remediate  
Site-Specific Standard/Statewide Health Standard  
2001 Richmond Street (Parcel B)  
eFACTS PF No. 831661  
eFACTS Activity No. 52871  
2001 Richmond Street  
City of Philadelphia  
Philadelphia County

Dear Mr. Hoogstraten:

This letter acknowledges receipt of your Notice of Intent to Remediate (NIR) on January 7, 2019, pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The procedures set forth in Act 2 must be followed in order for this site to qualify for the liability protection provided by the Act. The Department of Environmental Protection (DEP) will not accept plans and reports until after the 30-day comment period following submission of the NIR ends.

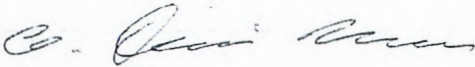
The 30-day comment period following submission of the NIR allows the municipality the opportunity to request to be involved in the development of remediation and reuse plans for the property. If the municipality requests a public involvement plan, any comments and responses must be included in any subsequent Site-Specific Standard reports. Remedial investigation reports, risk assessment reports, cleanup plans, and final reports submitted to DEP under the site-specific standard need to be accompanied by the required fees and documentation verifying compliance with the public notification requirements.

Additional technical and program information can be found at [www.dep.pa.gov](http://www.dep.pa.gov) (Business>Land>Land Recycling). Also, please refer to the Land Recycling checklists which are helpful in assuring reports are complete before submittal. DEP uses the checklists to perform administrative and technical completeness reviews when plans and/or reports are submitted. It is strongly encouraged to include the appropriate completed checklist with your Final Report submission. Land Recycling checklists can also be found at the website under 'Forms, Checklists & Notifications' link.

Please refer to the Standard Attachment for considerations of other programs which may be applicable to this property.

Rebecca Flannery is the project officer assigned to your project and will be working with you towards the remediation of this property. Frequent contact is encouraged between your representatives and our staff. If you have any questions or need further clarifications of our procedures, please contact the project officer by email at [rflannery@pa.gov](mailto:rflannery@pa.gov) or by telephone at 484.250.5779.

Sincerely,



C. David Brown, P.G.  
Professional Geologist Manager  
Environmental Cleanup and Brownfields

Enclosure: Standard Attachment

cc: City of Philadelphia  
Philadelphia Department of Health  
Mr. Herr (RT Environmental Services)  
Ms. Flannery  
Ms. Bass  
Re 30 (cb19ecb) 011.6



# CITY OF PHILADELPHIA

DEPARTMENT OF PUBLIC HEALTH  
1101 Market Street, 13<sup>th</sup> Floor  
Philadelphia, PA 19107

THOMAS A. FARLEY, MD, MPH  
Health Commissioner

CAROLINE JOHNSON, MD  
Acting Deputy Health Commissioner

January 15, 2019

Darryl D. Borrelli  
Manko, Gold, Katcher, Fox LLP  
401 City Avenue  
Suite 901  
Bala Cynwyd, PA 19004

Mr. Borrelli:

Recently, the City of Philadelphia Department of Public Health, Environmental Engineering Unit received a Notice of Intent to Remediate (NIR) from your firm, under the provisions of the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) regarding the property located at **2001 Richmond Street**, Philadelphia, Pennsylvania (19125).

Through the Notice of Intent (NIR) provisions of Act 2, the City of Philadelphia hereby requests that you develop a Public Involvement Plan (PIP) for this site. This request is made in accordance with the internal procedures first developed by the City in 2003 for this purpose. These procedures recommend our municipality request a PIP if the project is in close proximity or adjacent to residential, educational (schools/daycare), medical, religious, recreational and park properties. Since this property is in close proximity to residential properties, we are obligated to request a PIP. In addition to the reason above, members of the interdepartmental review team which reviews NIRs submitted to the City have recommended a PIP in this instance.

The venue for this PIP will be an appropriately publicized meeting of interested parties (impacted community and businesses) you will host to discuss this site, to be held at a suitable location and time, allowing interested parties to attend. An approximate 30 days advance notice of the meeting must be provided, during which time all relevant sampling and background investigation material should be made available for public inspection at a suitable location, such as the nearest school or public library.

The meeting would focus on the following:

- Identity, location and concentration of contaminants and hazardous substances found in sampling events at the site;



- Any potential health effects of those contaminants, based on locations and concentrations noted;
- Measures to be taken to protect the community, workers and recreation areas from possible exposure;
- Further definition of the remediation methodology to be employed;
- Discussion of specific procedures, such as dust control, sedimentation and erosion control.

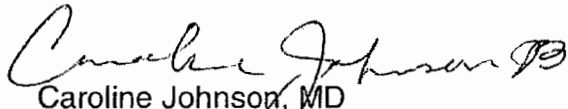
Following the meeting, all supplemental material, which will include presentation materials, attendance list, and questions and answers will append the material provided earlier, which will be given to PA DEP, with a copy to the City.

Please notify the Department of Public Health in writing of the date, time and location of the public meeting, and the location of the document depository as noted above.

Please note that this PIP request has nothing to do with the perceived value and need of this development for the community and the City. We assume that you have already had several meetings with the community, elected officials and others on the benefits of this development. This PIP request is specifically concerned with final questions regarding the proposed remediation to be employed on the site in its current condition. Accordingly, your presentation can be geared specifically to the remediation strategy, and the questions noted above.

Should you have any questions, please contact Leigh Anne Rainford of our Department's Environmental Engineering section at 215-685-7342 or at [Leighanne.Rainford@Phila.gov](mailto:Leighanne.Rainford@Phila.gov).

Sincerely,

  
Caroline Johnson, MD  
Deputy Health Commissioner

cc: David Brown, PA DEP  
Palak Raval-Nelson, Director, Environmental Health Services  
Patrick O'Neill, Divisional Deputy City Solicitor



## **Appendix H – DEP Correspondance**



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

January 18, 2019

Mr. James Anderson  
Dyott Corp./Columbus Blvd. Assoc./Beach Street Corp.  
6958 Torresdale Avenue, Suite 200  
Philadelphia, PA 19135

Re: Statewide Health Standard Final Report Approval  
Former Cramp Shipyard  
eFACTS PF No. 713595  
eFACTS Activity No. 38337  
2001 Richmond Street, 2005 Richmond Street and 2001 Beach Street  
City of Philadelphia  
Philadelphia County

Dear Mr. Anderson:

The Department of Environmental Protection (DEP) reviewed the documents titled "Final Report Addendum" and "Final Report Addendum Supplement," (report) for the property referenced above. The reports were prepared by RT Environmental and submitted to DEP in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2), and they constitute a final report as defined in Chapter 3 of Act 2.

DEP hereby approves this final report for the substances identified and remediated to an Act 2 standard within the site(s) specified. Chapter 5, Section 501 of Act 2, provides the liability protection where attainment of Act 2 cleanup standards is demonstrated. The cleanup liability protection provided by this chapter applies to the current and future owner or any other person who participated in the remediation; a person who develops or occupies the property; successor or assign of any person to whom liability protection applies; and a public utility to the extent the public utility performs activities on the identified property(ies).

This project attained a nonuse aquifer residential Statewide health standard in groundwater for those contaminants in the enclosed list that were demonstrated to have been released at the site.

The Uniform Environmental Covenants Act (Act 68 of 2007), Title 27, Pa.C.S. Chapter 65 (UECA) and accompanying regulations provide a standardized process for creating, documenting, and assuring the enforceability of activity and use limitations on contaminated properties involving most engineering and institutional controls used to achieve Act 2 standards. Since the report utilizes activity and use limitations or will have post remedial care

obligations to meet and/or attain the nonuse aquifer standard, an environmental covenant is required to be submitted within 30 days of the date of this approval letter.

Please refer to the enclosed Standard Attachment for other DEP program requirements for considerations which may be applicable to the referenced site.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board  
Rachel Carson State Office Building, Second Floor  
400 Market Street  
P.O. Box 8457  
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800.654.5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

**IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.**

**IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.**

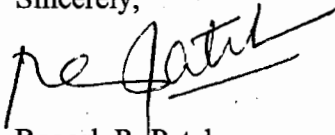
Mr. James Anderson

- 3 -

January 18, 2019

Thank you for your cooperation in working with DEP in the remediation of this site. If you have any questions or need further information regarding this matter, please contact Ms. Rebecca Flannery by e-mail at [rflannery@pa.gov](mailto:rflannery@pa.gov) or by telephone at 484.250.5779.

Sincerely,



Ragesh R. Patel  
Regional Manager  
Environmental Cleanup and Brownfields

Enclosures: Contaminant List  
Standard Attachment

cc: Mr. Herr, P.G. – RT Environmental  
City of Philadelphia  
Mr. C. Brown, P.G.  
Ms. Flannery  
Ms. Bass  
Re 30 (GJS19ECB)18

List of Contaminants, Former Cramp Shipyard, eFACTS PF No. 713595

January 18, 2019

Chemical Name	CAS Number
Chloroethane	74-87-3
Methylene chloride	75-09-2
MTBE	1634-04-4
Vinyl chloride	75-01-4
Benzo(a)anthracene	56-55-3
Benzo(a)pyrene	50-32-8
Benzo(b)fluoranthene	205-99-2
Benzo(g,h,i)perylene	191-24-2
Benzo(k)fluoranthene	207-08-9
bis(2-ethylhexyl)phthalate	117-81-7
1,1-dichloroethane	75-34-3
1,2-dichlorobenzene	95-50-1
1,2,4-trimethylbenzene	95-63-6
1,3,5-trimethylbenzene	108-67-8
Isopropylbenzene	98-82-8
Acetone	67-64-1
Benzene	71-43-2
Carbon disulfide	75-15-0
Chlorobenzene	108-90-7
Naphthalene	91-20-3
Xylenes (total)	1330-20-7
Chloroform	67-66-3
Chrysene	218-01-9
cis-1,2-dichloroethene	156-59-2
Tetrachloroethene	127-18-4
Toluene	108-88-3
dibenzo(a,h)anthracene	53-70-3
bis(2-chloroethyl)ether	111-44-4
Butyl benzyl phthalate	85-68-7
Diethyl phthalate	84-66-2
Di-n-butyl phthalate	84-74-2
Fluoranthene	206-44-0
Fluorene	86-73-7
Phenanthrene	85-01-8
Pyrene	129-00-0
Indeno (1,2,3-cd) pyrene	193-39-5
4-methylphenol	106-44-5
2-methylnaphthalene	91-57-6
2-butanone	78-93-3
2,4-dinitrotoluene	606-20-2
2-methylphenol	95-48-7
Acenaphthene	83-32-9
Anthracene	120-12-7
Carbazole	86-74-8
Dibenzofuran	132-64-9
Di-n-octyl phthalate	117-84-0
Hexachlorobenzene	118-74-1
Pentachlorophenol	87-86-5
Phenol	108-95-2
PCB Aroclor 1016	12674-11-2
PCB Aroclor 1242	53469-21-9
PCB Aroclor 1254	11097-69-1
PCB Aroclor 1260	11096-82-5
Arsenic	7440-38-2
Barium	7440-39-3
Chromium	7440-47-3
Cadmium	7440-43-9
Mercury	7439-97-6
Selenium	7782-49-2
Silver	7440-22-4



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

August 14, 2018

Mr. James Anderson  
Dyott Corporation/Columbus Boulevard Associates, LP/Beach Street Corporation  
6958 Torresdale Avenue  
Philadelphia, PA 19135

Re: Receipt of Final Report  
Cramp Shipyard  
eFACTS PF No. 713595  
eFACTS Activity No. 39694  
2001 Richmond Street, 2005 Richard Street, 2001 Beach Street  
City of Philadelphia  
Philadelphia County

Dear Mr. Anderson:

This letter acknowledges receipt of your Final Report on August 3, 2018, pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). This Notice of Intent to Remediate submitted previously and this Final Report indicate that you sought to remediate this site to meet the statewide health standard.

Act 2 requires the Department of Environmental Protection (DEP) to review and respond to your final report within 60 days of the receipt date. You will receive a letter advising you of DEP's action on your final report submission. If you have any questions or need further clarification of our procedures, please call Rebecca Flannery at [rflannery@pa.gov](mailto:rflannery@pa.gov) or by telephone at 484.250.5779.

Sincerely,

C. David Brown, P.G.  
Professional Geologist Manager  
Environmental Cleanup and Brownfields

cc: City of Philadelphia  
Philadelphia Department of Health  
Mr. Herr (RT Environmental Services, Inc.)  
Ms. Flannery  
Ms. Bass  
Re 30 (cb18ecb) 226.19

RECEIVED  
AUG 20 2018

BY: .....



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

Southeast Regional Office  
2 East Main Street  
Norristown, PA 19401-4915



U.S. POSTAGE >>> PITNEY BOWES



ZIP 19401 \$ 000.47<sup>0</sup>  
02 4W  
0000351062 AUG 16 2018

MR. CRAIG HERR, P.G.  
RT ENVIRONMENTAL SERVICES, INC.  
215 WEST CHURCH ROAD, SUITE 300  
KING OF PRUSSIA, PA 19406

15406\$3207 0027

