

# **SEDIMENT CHARACTERIZATION REPORT FOR THE TIN MILL CANAL**

TRADEPOINT ATLANTIC  
SPARROWS POINT, MARYLAND

Prepared by:



## **ENVIROANALYTICS GROUP**

1650 Des Peres Road, Suite 230  
Saint Louis, Missouri 63131

and



## **ARM GROUP INC.**

9175 Guilford Road  
Suite 310  
Columbia, Maryland 21046

ARM Project No. 170208M

Revision 3 – January 4, 2018

## TABLE OF CONTENTS

---

|        |  |    |
|--------|--|----|
| 1.0    | INTRODUCTION .....   | 1  |
| 1.1.   | Background .....   | 1  |
| 1.2.   | Site Ownership History .....                               | 2  |
| 2.0    | TIN MILL CANAL .....                                       | 3  |
| 2.1.   | Site Description .....                                     | 3  |
| 2.2.   | Regulatory Process .....                                   | 3  |
| 2.3.   | Previous Investigations .....                              | 4  |
| 3.0    | SEDIMENT CHARACTERIZATION INVESTIGATION .....              | 6  |
| 3.1.   | Objectives.....  | 6  |
| 3.2.   | Scope of Investigation Activities .....                    | 8  |
| 3.3.   | Sampling Locations.....                                    | 8  |
| 3.4.   | Sample Collection Procedure.....                           | 9  |
| 4.0    | RESULTS OF THE INVESTIGATION.....                          | 10 |
| 4.1.   | Chemical Constituent Data.....                             | 10 |
| 4.1.1. | Discrete Depth Sample Results.....                         | 10 |
| 4.1.2. | Composite Sample Results .....                             | 10 |
| 4.2.   | Geotechnical Results .....                                 | 11 |
| 5.0    | SUPPLEMENTAL INVESTIGATION.....                            | 12 |
| 5.1.   | Objectives of Sampling Effort.....                         | 12 |
| 5.2.   | Sample Collection .....                                    | 12 |
| 5.3.   | PCB Delineation Sample Results.....                        | 13 |
| 5.4.   | SVOC Resample Results.....                                 | 13 |
| 5.5.   | Restricted Access Sample Results.....                      | 14 |
| 6.0    | REMEDIATION WASTE Characterization.....                    | 15 |
| 6.1.   | RCRA Toxicity Characteristic Assessment .....              | 15 |
| 6.2.   | RCRA Contained-In Waste Assessment .....                   | 15 |
| 6.3.   | Physical characteristics .....                             | 17 |
| 7.0    | Screening Level Risk Assessment .....                      | 18 |
| 7.1.   | Analysis Process.....                                      | 18 |
| 7.2.   | Tin Mill Canal SLRA Results and Risk Characterization..... | 20 |
| 7.3.   | Management of PCB-Contaminated Media .....                 | 21 |
| 8.0    | Findings and Recommendations .....                         | 22 |

|  |    |
|--|----|
| 8.1. Sediment.....                           | 22 |
| 8.2. Remediation waste characterization..... | 23 |
| 8.3. Human Health Screening Analysis .....   | 23 |
| 8.4. Recommendations .....                   | 23 |
| 9.0 REFERENCES .....                         | 25 |

**FIGURES**

|           |   |                |
|-----------|---|----------------|
| Figure 1  | Site Location Map .....                           | Following Text |
| Figure 2  | TMC Investigation Transects.....                  | Following Text |
| Figure 3  | Inorganic PAL Exceedances (Shallow) .....         | Following Text |
| Figure 4  | Inorganic PAL Exceedances (Deep).....             | Following Text |
| Figure 5  | SVOC PAL Exceedances (Shallow).....               | Following Text |
| Figure 6  | SVOC PAL Exceedances (Deep).....                  | Following Text |
| Figure 7  | PCB PAL Exceedances (Shallow).....                | Following Text |
| Figure 8  | PCB PAL Exceedances (Deep).....                   | Following Text |
| Figure 9  | PCB Delineation Sample Detections (Shallow) ..... | Following Text |
| Figure 10 | PCB Delineation Sample Detections (Deep).....     | Following Text |

**TABLES**

|         |  |                |
|---------|--|----------------|
| Table 1 | Sediment Sample Analytical Data .....                | Following Text |
| Table 2 | Sediment Characterization and Geotechnical Data..... | Following Text |
| Table 3 | TCLP Results .....                                   | Following Text |
| Table 4 | Supplemental Investigation Analytical Data .....     | Following Text |
| Table 5 | Adjusted RSL Comparison .....                        | Following Text |
| Table 6 | COPC Screening Table .....                           | Following Text |
| Table 7 | Lead Assessment.....                                 | Following Text |
| Table 8 | EPCs – Pooled Sediment .....                         | Following Text |
| Table 9 | Risk Ratios – Pooled (Composite).....                | Following Text |

## TABLE OF CONTENTS (CONT.)

---

### APPENDICES

Appendix A MDE Remediation Waste Determination (email).....Following Text

### ELECTRONIC ATTACHMENTS

Laboratory Certificates of Analysis ..... Electronic Attachment  
Data Validation Reports..... Electronic Attachment  
ProUCL Input and Output..... Electronic Attachment



## 1.0 INTRODUCTION

This Sediment Characterization Report (SCR) for the Tin Mill Canal at the Tradepoint Atlantic property has been prepared by EnviroAnalytics Group (EAG), LLC with support by ARM Group. The report presents relevant historical information for the Tin Mill Canal (TMC), a description of the field activities that were completed to gather information regarding the sediments in TMC, results of the investigation including implications of the data with respect to the design and implementation of potential remedial actions for sediments deposited within the canal to be compliant with requirements of the Resource Conservation and Recovery Act (RCRA), the Maryland Voluntary Cleanup Program (VCP) and other regulatory requirements. The SCR was completed pursuant to a sampling and analysis work plan approved by the Maryland Department of the Environment and United States Environmental Protection Agency on March 24, 2015 (EAG, March 2015) and two separate work plan addenda approved by the Maryland Department of the Environment and United States Environmental Protection Agency on August 11, 2015 (EAG, August 2015) and July 27, 2016 (EAG, July 2016).

### 1.1. BACKGROUND

The Tradepoint Atlantic property is located in Baltimore County, Maryland at the southeast corner of the Baltimore metropolitan area, approximately nine miles from the downtown area. The property encompasses approximately 3,100 acres located on a peninsula situated on the Patapsco River near its confluence with the Chesapeake Bay physically positioned in the mouth of the heavily industrialized and urbanized Baltimore Harbor / Patapsco River region. A land connection to the northeast links the peninsula with the adjacent community of Edgemere.

From the late 1800s until 2012, the property was used for the production and manufacturing of steel. Iron and steel production operations and processes at the Site included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steelmaking operations at the Facility ceased in fall 2012, and plans for the Site include demolition and redevelopment over the next several years.

The original topography of the peninsula was flat with elevations not exceeding 15 feet North American Vertical Datum 1988 (NAVD88). The peninsula has been drastically altered since the inception of the steel manufacturing activities. Creeks have been filled in and new land has been added to various areas of the Site by building up near-shore areas of the river.

## 1.2. SITE OWNERSHIP HISTORY

Bethlehem Steel Corporation operated an integrated steelmaking facility at the site from approximately 1916 through 2003. As a result of multiple market factors, Bethlehem Steel declared bankruptcy in 2001 and the facility was subsequently operated by a succession of owners, the last of which (RG Steel Sparrows Point, LLC) filed for bankruptcy in 2012. The site was subsequently purchased by Sparrows Point, LLC (SPLLC) at a bankruptcy sale on August 7, 2012. Sparrows Point Terminal, LLC (SPT) purchased the real property on September 18, 2014 subject to the provisions of a Purchase and Sale Agreement wherein SPLLC and SPT have allocated various environmental responsibilities, liabilities, and obligations among themselves. SPT has subsequently undergone a name change and is now doing business as Tradepoint Atlantic.

## 2.0 TIN MILL CANAL

### 2.1. SITE DESCRIPTION

The focus of this investigation, the Tin Mill Canal (TMC), is a constructed swale that currently serves as a conveyance for stormwater runoff and groundwater base flow from an approximately 800 acre drainage area of the Sparrows Point site. Waters collected in the TMC are routed to the Humphrey's Creek Waste Water Treatment Plant (HCWWTP) for treatment prior to discharge via the NPDES permitted Outfall 014. The average volume of water flowing through the canal to the HCWWTP during dry weather ranges is approximately 3,000 gallons per minute (gpm), but can increase to over 50,000 gpm during storm events. The TMC is located in the central portion of the Sparrows Point property, south of Interstate 695 and Highway Route 158. An aerial photo that shows the location of the canal is provided as **Figure 1**.

The TMC is approximately 7,500 feet in length, 30 to 50 feet wide and 15 feet below grade. The canal was constructed from slag and includes numerous point discharges from the site storm sewer system. The eastern portion of the TMC began operating in the early 1950's. The western (remaining) portions of the canal and HCWWTP were completed and began operating in approximately 1969. Since its construction, the TMC has historically also conveyed wastewater discharged from numerous manufacturing facilities associated with former steelmaking and steel finishing operations at the Sparrows Point site. Over the years, some of the heavier particles and oils in the wastewaters from the steel manufacturing facilities have settled to the bottom of TMC. Point discharges to the TMC also include an open channelway that is approximately 20 wide by 175 feet long. This area is referred to historically as the Pori Lagoon Area. The canal still receives and controls stormwater runoff from the Site; the HCWWTP remains operational to treat stormwater runoff prior to discharge.

### 2.2. REGULATORY PROCESS

Environmental responses for the TMC and for the site in general, are being implemented pursuant to the following:

- Multi-Media Consent Decree (Decree) between Bethlehem Steel Corporation, the United States Environmental Protection Agency, and the Maryland Department of the Environment (effective October 8, 1997); this Decree has been modified in accordance with a stipulated order entered into by Sparrows Point LLC and the respective agencies effective July 28, 2014;
- Administrative Consent Order (ACO) between Sparrows Point Terminal, LLC and the Maryland Department of the Environment (effective September 12, 2014); and,

- Settlement Agreement and Covenant Not to Sue (SA) between Sparrows Point Terminal, LLC and the United States Environmental Protection Agency (effective November 25, 2014).

The original Consent Decree for the Sparrows Point facility dealt with many issues associated with ongoing iron-making, steel-making, coking, byproduct, plating, and finishing operations. To the extent that these operations are no longer conducted, and the associated facilities no longer exist, many specific requirements of the Decree are no longer applicable and have been removed in accordance with the stipulated order implementing modifications to the Decree. The TMC is part of the acreage that remains subject to the requirements of the Decree as documented in correspondence received from EPA on September 12, 2014.

### 2.3. PREVIOUS INVESTIGATIONS

Pursuant to the requirements of the 1997 Consent Decree, Site-Wide Investigation activities and associated environmental assessments have been performed at the site focused on characterizing the nature and extent of releases to on-site areas of the property. Work has been completed to implement an investigation and screening process to evaluate potential source areas of releases to the environment and define if further action (or no further action) is necessary. The TMC area was identified as a “Special Study Area” within the context of the Decree and was subject to applicable portions of the following major submittals completed to date as part of the Site-Wide Investigation:

- Description of Current Conditions, January 1998 (Rust 1998);
- Site-Wide Investigation Work Plan – Groundwater Study, June 2000 (CH2M Hill 2000);
- Site-Wide Investigation Groundwater Study Report, July 2001 (CH2M Hill 2001);
- Site-Wide Investigation Release Site Characterization Study, June 2002 (CH2M Hill 2002a);
- Site-Wide Investigation: Report of Nature & Extent of Releases to Groundwater From the Special Study Areas, International Steel Group, ISG Sparrows Point, Inc. Facility, Sparrows Point, Maryland, January 2005 (URS 2005a), revised 2007;
- CA725 Facility Investigation and Human Health Risk Evaluation (HHRE) Findings, ISG Sparrows Point, June 2005 (URS 2005b);
- Ecological Risk Assessment Strategy Document; ISG Sparrows Point Facility (URS 2006a);
- Final Ecological Risk Assessment Work Plan for On-Site Areas (URS 2007).
- Screening Level Ecological Risk Assessment For On-Site Areas Final (April 2009, URS)
- Supplemental Report County Lands Parcel 1B Ponds Final ( May 2009, URS)
- Final Baseline Ecological Risk Assessment for On-Site Areas (BERA) Report (URS, October 7, 2011)

Work was also completed previously in conjunction with requirements of the Decree to identify and quantify discharges to the TMC (Tin Mill Canal Study Characterization, CH2MHill, 1997). Evaluation of the sediments in the canal was not included as part of previous investigations.

Phase II Investigations have been or are currently being carried out at the majority of the Sparrows Point property. For the purpose of these investigations, the property is divided into several parcels with individual designations. The Tin Mill Canal is designated as Parcel B16. All parcels are shown on **Figure 1**. The investigation efforts outlined in this SCR support the site-wide Phase II Investigation requirements as outlined under the ACO.

### 3.0 SEDIMENT CHARACTERIZATION INVESTIGATION

#### 3.1. OBJECTIVES

The objective of the TMC sediment investigation is to provide information to characterize the physical and chemical characteristics of the sediments contained within the canal and to support development and implementation of a remedial cleanup action for the TMC that is protective of both human health and the environment. The immediate cleanup action being considered includes the removal of solids settled within the canal and subsequent channel stabilization work as summarized in the Site Conceptual Cleanup Plan (SCCP; EAG, August 2014a). Data for the sediments are required to develop the work scope necessary to complete this cleanup action.

The canal has been used historically for the conveyance of both stormwater and wastewater to a central wastewater treatment plant (HCWWTP) prior to discharge to surface water through a NPDES permitted discharge outfall. Materials that contain metals and oil/grease have been deposited in the TMC over time from process sewer discharges associated with the steel finishing operations. These materials are located within the entire length and width of the canal and affect water currently being controlled and discharged through the canal. The canal still receives and controls stormwater runoff from the Site; the HCWWTP remains operational to treat stormwater runoff prior to discharge.

Contaminants of concern include metals, organics, or oil & grease affecting the sediment of the TMC, and thus potentially the stormwater that continues to be conveyed by the TMC. Remediation will focus on the mitigation of future exposure pathways from contaminated sediment, impacts to stormwater conveyed by the canal and elimination of contaminants from the aggregate TMC discharge requiring treatment at the HCWWTP as follows:

- Sediment - Prevent potential future direct exposure to contaminated sediments located within Tin Mill Canal;
- Surface Water - Mitigate impacts to stormwater conveyed by Tin Mill Canal and eliminate need for ongoing treatment of stormwater at the HCWWTP.

Response actions being considered for the TMC are anticipated to include removal and disposal of impacted sediments associated with the canal or isolation techniques with sediments remaining in place and the subsequent installation of acceptable isolation and channel stabilization materials. Response actions being considered are further described as follows:

- Excavation/dredging and removal of sediment from the TMC – estimated amount to be removed - 7300' x 40' x 5' (the 5' being the thickness of sediment to be removed) = ~54,000 cu yds of material

- Restoration of the remaining slag fill and sediments by covering with an engineered barrier that will support acceptable future stormwater conveyance through the TMC.

This area will be subject to ongoing remedial obligations including the completion of a Corrective Measure Study that is expected to define implementation requirements for institutional controls. Closure tasks for this area may include future NPDES surface water discharge requirements. Surface water discharge modeling may be appropriate and will necessarily be integrated with site development plans. Continuing stormwater discharges from the TMC will need to meet current and potential future surface water quality criteria associated with NPDES discharge permits for the Site. .. These criteria are anticipated to be focused on surface water quality standards for metals such as, but not limited to, copper (0.0061 mg/L), nickel (0.0082 mg/L) and zinc (0.081 mg/L).

Specific objectives have been identified for the data collection and characterization effort of the TMC as follows:

1. Provide data to better approximate the volume of sediment that is present within the TMC and the Pori Lagoon Area.
2. Provide data to evaluate the physical and chemical characteristics of the settled material. Physical characteristics will be assessed to identify applicable technologies to be used to remove, handle and provide material adequate for transport and recycling or disposal.
3. Provide chemical characteristic and constituent data to be used for the management of remediation waste that may be subject to RCRA requirements outlined in 40 CFR 262.11 and COMAR 26.13.03.02 and TSCA requirements outlined in 40 CFR 761.61. The sampling and analysis program included testing of the settled materials for both individual Appendix IX analytes including PCBs identified as constituents of potential interest (COPIs) for the site and hazardous waste characteristic testing procedures (TCLP) in accordance with methods outlined in EPA SW-846. Concentrations of constituents within the sediment will be fully characterized to guide decisions for the proper management of environmental media that would be generated in the context of a removal and disposal remediation alternative.
4. Provide data to support the completion of health-based evaluations of environmental media that would require management as remediation waste and a human health Screening Level Risk Assessment (SLRA) for the TMC.



### 3.2. SCOPE OF INVESTIGATION ACTIVITIES

The investigation activities performed to characterize the sediments in TMC were conducted in accordance with the USEPA- and MDE-approved Work Plan, and in view of comments and suggestions provided by USEPA and MDE representatives during a scoping meeting held in November 2014.

This report presents the methods and protocols used to complete the site characterization. These methods and procedures follow the MDE-VCP and EPA guidelines. Information regarding the project organization, field activities and sampling methods, sampling equipment, sample handling and management procedures, the laboratory analytical methods and selected laboratory, quality control and quality assurance procedures, investigation-derived waste (IDW) management methods, are described in detail in the site-wide Quality Assurance Project Plan (QAPP) that has been developed to support the investigation and remediation of the Sparrows Point Terminal Site (Sparrows Point Terminal Quality Assurance Project Plan, ARM Group Inc., Revision 3; April 5<sup>th</sup>, 2016).

### 3.3. SAMPLING LOCATIONS

Sediment samples were collected from 16 transects along the length of the TMC and from 1 transect along the channelway from the Pori Lagoon area. Transect locations and numbers are shown on **Figure 2**. Samples were collected at each transect in accordance with the following plan:

- **Discrete depth samples:** The width of the sediment horizon was measured at each transect location. Depth of sediment to the slag bottom of the canal was measured at two locations that represent distances of one third and two thirds across the perpendicular width of the sediment horizon. At each of these two locations, a sediment sample was collected from the top foot of the sediment horizon (shallow discrete sample) and another sample was collected from the bottom foot of the sediment horizon (deep discrete sample). At some locations, there was not sufficient recovery of sediment to be able to collect both a shallow and a deep discrete sample. In total, 58 discrete depth samples were collected and analyzed for specific Appendix IX volatile organic compounds (VOCs), Appendix IX RCRA metals including hexavalent chromium, and for Toxicity Characteristic Leaching Procedure (TCLP) VOCs.
- **Composite samples:** For each transect, sediment from the two aforementioned shallow discrete samples was thoroughly mixed to produce a shallow composite sample, and sediment from the two deep discrete samples was thoroughly mixed to produce a deep composite sample. An “(S)” was added to the end of the sample IDs for the shallow composite samples and a “(D)” was added to the end of the sample IDs for the deep composite samples. In total, 29 composite samples were collected and analyzed for



specific Appendix IX semi-volatile organic compounds (SVOCs), cyanide, polychlorinated biphenyl (PCB) aroclors, TCLP SVOCs, and TCLP inorganics.

- **Bulk samples:** At Transects 5, 10 and 15, geotechnical sediment samples were collected and analyzed for moisture content and bulk density. For each of these transects, sediment was collected from 1-3' below grade using a shovel, and the resulting sediment was used to fill sampling containers for one geotechnical sample per transect.

### 3.4. SAMPLE COLLECTION PROCEDURE

A modified surge block sampling apparatus (suction sampler) was used to collect the sediment samples. The suction sampler consisted of a 2-inch diameter PVC pipe, the surge block (a piece of rubber between two 1 7/8-inch diameter washers), and a 1-inch diameter PVC pipe. The surge block was attached to the end of the 1-inch PVC pipe and secured in place with a nut. As the nut is tightened, the rubber is squeezed outward from between the washers. When the surge block is pushed into the 2-inch PVC pipe, the rubber between the washers creates a seal around the inside of the pipe.

To collect a sample, the suction sampler was driven downward into soft sediment, with the surge block at the bottom of the 2-inch PVC pipe, until the required sampling depth was achieved. Once at the desired sampling depth, the apparatus was withdrawn for one foot, then lowered back down one foot while pulling the surge block up through the interior of the 2-inch pipe. This process pulled the soft sediment into the sampler. The suction sampler was then extracted from the soft sediment, tilting it as the bottom reached surface grade. Sample material was then recovered out of the sampler into a plastic bag and distributed as required to sample containers.

Wide-mouth glass containers with Teflon-lined caps were utilized for sample containers. Sediment was transferred from plastic bags to sample containers using a stainless steel or plastic lab spoon or equivalent. For composite samples, recovered sediment was placed into a stainless steel, plastic or other appropriate composition (e.g.: Teflon) bucket and mixed thoroughly to obtain a homogeneous sample. The sediment samples were placed into labeled containers. Samples were preserved to 4 degrees Celsius immediately after recovery.

All sampling devices and non-disposable equipment that came into contact with sediment were decontaminated prior to reuse. Decontamination procedures included:

- Wash with a laboratory grade detergent, such as Alconox
- Rinse with distilled water
- Second rinse with distilled water

## 4.0 RESULTS OF THE INVESTIGATION

### 4.1. CHEMICAL CONSTITUENT DATA

Sediment analytical results were screened against Project Action Limits (PALs) established in the site-wide QAPP to determine PAL exceedances. PALs are generally based on the USEPA's Regional Screening Levels (RSLs) for the Composite Worker exposure to soil. The Composite Worker is defined by the USEPA as a long-term receptor exposed during the work day who is a full time employee that spends most of the workday conducting maintenance activities (which typically involve on-site exposures to surface soils) outdoors.

The analytical results for the detected parameters are summarized and compared to the PALs in the attached **Table 1**. The laboratory Certificates of Analysis (including Chains of Custody) and Data Validation Reports have been included as electronic attachments. The data validation reports contain a glossary of qualifiers for the final flags assigned to individual results in the attached summary tables.

#### 4.1.1. Discrete Depth Sample Results

As provided in **Table 1**, nine VOCs were detected above the method detection limit (MDL); however, the majority of these detections were “J” flagged, meaning they were not detected above the laboratory reporting limit (RL). There were no VOCs detected above their respective PALs.

**Table 1** provides a summary of metals were detected above the laboratory's MDLs in discrete depth sediment samples. Arsenic, cobalt and lead were detected above their respective PALs. Cobalt was only detected above its PAL in sample TM-SD-03, while lead was only detected above its PAL in sample TM-SD-86. Arsenic was detected above its PAL in 58 samples. Inorganic PAL exceedances are shown on **Figure 3** and **Figure 4**.

#### 4.1.2. Composite Sample Results

As provided on **Table 1**, 13 SVOCs were detected above their respective MDLs. The majority of these detections were “J” flagged, meaning they were not detected above the laboratory reporting limit (RL). The concentration of 2,4-dinitrotoluene detected in composite sample TM-SD-10 (D) exceeded its applicable PAL. This was the only PAL exceedance for SVOCs. However, the laboratory's reporting limits for a majority of the SVOC results exceeded the PALs. Therefore, the majority of SVOC results were rejected, and the associated samples were scheduled to be collected for re-analysis of SVOCs as part of a supplemental investigation (see Section 6.0). SVOC PAL exceedances are shown on **Figure 5** and **Figure 6**.

**Table 1** provides results of laboratory analyses for PCBs. Aroclor 1242 and Aroclor 1254 were detected above their respective PALs in nine samples. Only one sample contained a concentration that exceeded 50 mg/kg—Aroclor 1242 was detected in sample TM-SD-31 (D) at a concentration of 233 mg/kg. This sample was collected from Transect 6. All other detected concentrations of PCBs were 4.8 mg/kg or less. PCB PAL exceedances are shown on **Figure 7** and **Figure 8**.

**Table 1** also provides the results of analyses for cyanide. Cyanide was detected in 28 composite samples—all composite samples except for TM-SD-05 (S). The majority of these detections were “J” flagged, meaning they were not detected above the laboratory reporting limit (RL). The concentration of cyanide did not exceed its PAL in any of the sediment samples.

#### **4.2. GEOTECHNICAL RESULTS**

A summary of geotechnical results has been provided on **Table 2**. This table includes thicknesses of sediment at each sampling location and the results of the laboratory analyses for moisture content and density for the three geotechnical samples collected.

## 5.0 SUPPLEMENTAL INVESTIGATION

On July 19, 2016, EAG submitted an addendum to the approved work plan that defined sampling and analysis procedures for further characterization of the sediments in the Tin Mill Canal. The proposed additional Sediment Sampling and Analysis Plan was approved on July 27, 2016 by U.S. EPA and MDE.

### 5.1. OBJECTIVES OF SAMPLING EFFORT

This supplemental investigation was carried out to complete the following objectives:

- Provide further delineation of the extent of elevated PCBs located between Transects 5-7;
- Recollect composite samples for semi-volatile compounds (SVOCs) at a number of transects for re-analysis to achieve lower laboratory reporting levels; and
- Collect samples at several TMC locations where access was restricted during the previous sampling events.

### 5.2. SAMPLE COLLECTION

During the supplemental investigation, 42 discrete sediment samples were collected and analyzed for PCBs in order to delineate the extent of elevated PCB concentrations surrounding the TM-SD-31 sampling location. These samples were collected between Transect 5 and Transect 7 from the top 12 inches and bottom 12 inches of the sediment horizon at 21 locations spaced approximately 50 feet apart. These samples are numbered TM-SD-89 through TM-SD-130. These samples were collected from the center of the canal.

In addition, 11 composite sediment samples were collected and analyzed for SVOCs. These samples were collected from sediment horizon at Transect 6 through Transect 16, as these were the locations for which the previous analytical results had unacceptably high reporting limits. The composite sample for a given transect consisted of sediment collected from the bottom 12 inches of the sediment horizon at locations approximately one-third and two-thirds across the length of the width of the sediment horizon.

Samples were not collected during the initial investigation from select locations at Transects 11, 12 and 14 due to restricted access. During the supplemental investigation, access to these locations was provided and samples were collected at the following locations: TM-SD-54, TM-SD-56, and TM-SD-59. These samples were analyzed for VOCs and metals.

Discrete and composite sediment samples were collected using the same methods employed during the initial investigation.

### 5.3. PCB DELINEATION SAMPLE RESULTS

**Table 4** shows the PCB results for sediment samples collected during the supplemental investigation. Aroclor 1248, Aroclor 1260, and total PCBs were detected above their respective PALs in several samples. Aroclor 1248 and total PCBs were detected at concentrations greater than 50 mg/kg. Detected concentrations greater than 50 mg/kg were limited to samples TM-SD-118, TM-SD-120, and TM-SD-124. Of these samples, TM-SD-124 was located the farthest downstream. All PCB concentrations downstream of TM-SD-124 were 6.74 mg/kg or less. All samples with detected concentrations of PCBs greater than 50 mg/kg were collected from the deep sampling intervals. Specific depth intervals that were sampled are indicated in **Table 4**. Delineation samples collected as part of the Supplemental Investigation identified that areas with PCB concentrations greater than 50 mg/kg were laterally limited to the area between TM-SD-118 and TM-SD-124, as well as the area in the immediate vicinity of the individual sample location TM-SD-31. Because samples with PCB concentrations over 50 mg/kg were from deep sampling depth intervals, further vertical delineation is required. This delineation can be best implemented during the excavation process. The locations and concentrations of PAL exceedances of PCBs are shown on **Figure 7** through **Figure 10**.

### 5.4. SVOC RESAMPLE RESULTS

**Table 4** shows the SVOC results for sediment samples collected during the supplemental investigation. A total of 25 SVOCs were detected at concentrations above the laboratory's MDLs across all 11 composite samples; however, only the concentrations of two SVOCs exceeded their respective PALs. Benzo(a)pyrene exceeded its PAL in samples TM-SD-36 (D), TM-SD-46 (D), and TM-SD-51 (D); while naphthalene exceeded its PAL in sample TM-SD-72 (D). The locations and concentrations of SVOC PAL exceedances are shown on **Figure 5** and **Figure 6**. The MDLs for the majority of the SVOCs were below the PALs for these samples; however, a small percentage (3.6%) of the MDLs for SVOC results exceeded their respective PALs. MDLs exceeded PALs for at least one sample result for the following parameters: 2,6-dinitrotoluene, bis(2-chloroethyl)ether, hexachlorobenzene, hexachlorocyclopentadiene, and pentachlorophenol. The MDL exceeded the PAL for less than half of the results for all of these parameters (except pentachlorophenol). Results for these constituents where the MDL was below the PAL were all non-detects.

TM-SD-72(D) was analyzed for VOCs and metals in addition to SVOCs. Four VOCs (benzene, ethylbenzene, toluene, and xylenes) were detected at concentrations above the laboratory's MDLs. The concentration of benzene in this sample (18 J mg/kg) exceeded its respective PAL (1.5 mg/kg); however, this concentration was detected below the reporting limit and therefore is an estimated value. The PAL exceedance for benzene is shown on **Figure 6**. Several metals were detected above the laboratory's MDLs in sample TM-SD-72 (D). The concentration of

arsenic in this sample (48 J mg/kg) exceeded its PAL (3 mg/kg). The PAL exceedance for arsenic is shown on **Figure 4**.

### **5.5. RESTRICTED ACCESS SAMPLE RESULTS**

**Table 3** provides the analytical results for samples TM-SD-54, TM-SD-56, and TM-SD-59. These samples were analyzed for VOCs and metals. Eight VOCs were detected at concentrations above the laboratory's MDLs; however, none of the detected concentrations of these parameters exceeded their respective PALs. A total of 17 metals were detected at concentrations above the laboratory's MDLs. The concentration of arsenic in each of these three samples exceeded the PAL. There were no other metals for which detected concentrations exceeded their respective PALs. The locations and concentrations of inorganic PAL exceedances are shown on **Figure 3** and **Figure 4**.

## 6.0 REMEDIATION WASTE CHARACTERIZATION

The analytic testing data reported by the laboratory for the collected samples was assessed in a stepwise manner to determine if the sediments removed from the TMC will be subject to regulation as hazardous waste under RCRA. The sediments removed from the canal are defined as remediation wastes in 40 CFR 260.10 or more specifically as contaminated environmental media. Contaminated environmental media generally is not subject to regulation under RCRA but may be subject to regulation if the media “contain” hazardous waste. Because of the varying nature of the sources of constituents in the canal and the potential that the media may have been contaminated with listed hazardous waste, the stepwise approach included the following procedures to identify the potential presence of hazardous remediation waste:

- 1) Evaluation of toxicity characteristics of hazardous waste (TCLP testing);
- 2) Evaluation of the concentration of hazardous constituents and whether the constituents exist at concentrations greater than health-based levels calculated using a reasonable maximum exposure scenario for the remedial activity;

### 6.1. RCRA TOXICITY CHARACTERISTIC ASSESSMENT

A representative number of samples of sediment from the TMC were analyzed using the Toxicity Characteristic Leaching Procedure (TCLP). Analytical results for toxicity characteristic testing of the sediments are summarized in **Table 3**. TCLP testing was completed for regulated volatile, semi-volatile and metal constituents of discrete and composite sediment samples recovered from all transects. As summarized in **Table 3**, no exceedances of the TCLP regulatory limits were identified; therefore it has been demonstrated that the contaminated environmental media that will be excavated/dredged from the canal will not exhibit a hazardous characteristic.

### 6.2. RCRA CONTAINED-IN WASTE ASSESSMENT

Based on the historical records, the sediment currently present in the TMC may have contacted and been contaminated with wastewater treatment sludges from electroplating operations, a listed hazardous waste (EPA Waste Code F006), prior to the installation of a separate wastewater treatment facility (HDS plant) in 1987. Spent pickle liquor, which was beneficially reused to adjust pH in the TMC, is also a listed hazardous waste (K062) when disposed rather than reused. Thus, under EPA’s “contained-in” policy, sediment excavated from the TMC could be considered contaminated media and could be subject to regulation under RCRA if determined to “contain” hazardous waste. EPA generally considers contaminated environmental media to contain hazardous waste: (1) when they exhibit a characteristic of hazardous waste; or, (2) when they are contaminated with concentrations of hazardous constituents from listed hazardous waste that are above health-based levels.



If contaminated environmental media contain hazardous waste, they are subject to all applicable RCRA requirements until they no longer contain hazardous waste. EPA considers contaminated environmental media to no longer contain hazardous waste: (1) when they no longer exhibit a characteristic of hazardous waste; and (2) when concentrations of hazardous constituents from listed hazardous wastes are below health-based levels.

In the case of environmental media that are contaminated by listed hazardous waste, EPA guidance recommends that “contained-in” determinations be made based on health-based levels of hazardous constituents below which contaminated environmental media would be considered to no longer contain hazardous waste. Since this determination involves development of site-specific health-based levels, the approval of EPA or an authorized state is required. In this case, MDE has been delegated the authority to make the determination of when the sediments no longer contain hazardous waste. In an email dated February 4, 2016 (**Appendix A**), MDE determined that for the Tin Mill Canal remediation waste to be considered to no longer contain hazardous waste, the characterization of the remediation waste must demonstrate that: (1) the waste no longer exhibits any characteristics of a hazardous waste; and (2) the concentrations of constituents are below the USEPA industrial soil Regional Screening Levels (RSLs) set to a hazard index of 10 and a cancer risk of  $1 \times 10^{-4}$  (Adjusted RSLs).

As discussed above, in order for contaminated environmental media to no longer contain hazardous waste, it must first no longer exhibit a characteristic of hazardous waste. The TMC sediments were tested for the toxicity characteristic via TCLP methods. The results of the TCLP testing are presented in **Table 4**. In this table, the results of the TCLP tests are compared to the regulatory criteria established to define a waste as characteristically hazardous under RCRA due to toxicity. As indicated, none of the regulatory criteria were exceeded. Therefore, the sediments do not exhibit the characteristic of hazardous waste.

A health-based assessment of hazardous constituents within the TMC sediments was completed by comparing the maximum detected concentrations or the maximum MDL of the constituents of potential interest (COPIs) developed for the sediments to the Adjusted RSLs. The TMC sediments were analyzed for a broad list of COPIs including TAL inorganics, TCL volatile organics, TCL semi-volatile organics, and PCBs. The COPI list specifically included the underlying hazardous constituents for which the F006 waste was listed (cadmium, chromium, cyanide, lead, nickel and silver) and K062 (Hexavalent chromium and lead). Detection limits for some SVOCs exceeded the Adjusted RSLs as part of the initial characterization work. Additional samples were collected for analysis of SVOCs during the supplemental investigation at the locations where the MDLs exceed the Adjusted RSLs. SVOC results from samples collected during the supplemental investigation had acceptable MDLs to support the health-based Adjusted RSL assessment. The assessment also compared concentrations of constituents measured in the sediment in place in the TMC, prior to excavation (i.e., generation) or any treatment that would occur to solidify the excavated material for disposal.



The data for the health-based assessment of hazardous constituents are presented in **Table 5**. The results indicate that the only concentrations of hazardous constituents above the Adjusted RSLs were a detection of PCB Aroclor 1242 in sample TM-SD-31 and a detection of Aroclor 1248 in sample TM-SD-120. These detections of PCBs also exceeded the TSCA limitation of 50 mg/kg. Therefore, based on the results of the TCLP analyses and the health-based “contained in determination” protocol, excavated environmental media and sediment from the TMC will not require management as a hazardous waste. However, excavated environmental media that contains PCBs with concentrations greater than 50 mg/kg will require management as a TSCA regulated waste material.

Environmental media excavated for remedial purposes in which the Total PCB concentration is found to exceed the 50 mg/kg threshold established by TSCA will require disposal as PCB remediation waste at a RCRA Sec. 3004 or 3006 permitted hazardous waste landfill or an approved PCB disposal facility per 40 CFR §761 .61(a)(5)(i)(B)(2)(iii). Environmental media that contains less than 50 mg/kg total PCB concentration removed from the TMC can be disposed at the on-site Greys Landfill. This non-hazardous, industrial landfill has received process waste and demolition debris from throughout the former mill and is operated under the oversight of the MDE.

### **6.3. PHYSICAL CHARACTERISTICS**

The sediments were typically described as dark black fine silt; oily/greasy; and sludge-like (**Table 2**). Moisture content for the geotechnical samples ranged from 28 to 41.4%. Dry densities ranged from as high as 109 pounds per cubic foot (pcf) for material described as dry-ish to 76.8 pcf for more typical material. Therefore, the excavated sediment will need to be dewatered and likely stabilized to remove free liquids to make it suitable for transport off-site or to the on-site Greys landfill. Sediment can be dewatered and solidified with sorbent material (cement kiln dust, lime kiln dust, fly ash, gypsum, sawdust, soil, etc.) until the bulked material no longer contains free liquids and will pass the paint filter test. This may be done in place prior to removal from the canal, in roll-off containers, on a concrete containment pad, or in a portable pug mill. Bench scale testing should be conducted to determine and demonstrate the appropriate bulking agent, mix, and mixing method.

## 7.0 SCREENING LEVEL RISK ASSESSMENT

### 7.1. ANALYSIS PROCESS

A Screening Level Risk Assessment (SLRA) has been conducted for TMC sediments to further evaluate existing conditions in support of the design of necessary response measures. The data were evaluated to assess baseline risk for the Composite Worker exposure scenario. The Composite Worker is defined by the USEPA as a long-term receptor exposed during the work day who is a full time employee that spends most of the workday conducting maintenance activities (which typically involve on-site exposures to surface soils) outdoors. The SLRA included the following evaluation process:

**Identification of Constituents of Potential Concern (COPCs):** Compounds that are present at concentrations at or above the EPA Regional Screening Levels (RSLs) set at a target cancer risk of  $1E-6$  or target non-cancer Hazard Quotient (HQ) of 0.1 were identified as COPCs to be included in the SLRA. The COPC screening levels for polynuclear aromatic hydrocarbons (PAHs) (as well as PALs discussed in preceding sections) were modified for the SLRA based on the USEPA Integrated Risk Information System (IRIS) Recent Additions for benzo[a]pyrene dated January 19, 2017 with adjustments for other PAH values based on the relative potency factors. A COPC screening analysis is provided in **Table 6** to identify compounds above the relevant cancer and non-cancer screening levels. Each compound with at least one detection in the TMC sediments was included in this analysis.

**Identification of Exposure Units (EUs):** The area of the TMC was analyzed as a single EU with an area of approximately 17 acres.

**Exposure Point Concentrations (EPCs):** The COPC data for shallow and deep sediment depths were pooled to assess potential exposures to TMC sediments for future Composite Workers. It was not necessary to assess Construction Workers because all maintenance cleanup work for the TMC sediments will be conducted by remediation-trained workers under a Health and Safety Plan addressing the contaminants of concern. The dataset of pooled samples of COPCs was used for estimation of potential EPCs within the EU. A limited amount of SVOC data (collected during the initial sediment investigation in 2015) did not meet the reporting limit requirements as specified by the QAPP. This unreliable SVOC data was rejected, and has been omitted from the EPC calculations. SVOC analyses from the supplemental investigation achieved lower reporting limits for SVOCs, so this data was used in the EPC calculations in place of the rejected data. A statistical analysis was performed for each COPC data set using the ProUCL software (version 5.0) developed by the USEPA to determine representative reasonable maximum exposure (RME) values for the EPC for each constituent. The

RME value is typically the 95% Upper Confidence Limit (UCL) of the mean. For lead, the arithmetic mean for the pooled dataset was calculated for comparison to the Adult Lead Model-based values, and any individual results exceeding 10,000 would be delineated for possible excavation and removal (if applicable). For PCBs, all results equaling or exceeding 50 mg/kg have been delineated for excavation and removal. All PCB results less than 50 mg/kg are included in the EPCs and risk ratio calculations.

**Risk Ratios:** The sediment EPCs were compared to the USEPA RSLs (for soils) to develop risk ratios to assess potential baseline risks to the Composite Worker based on equations derived in the USEPA Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (OSWER 9355.4-24, December 2002). The risk ratios for the carcinogens were summed to develop a screening level estimate of the baseline cumulative cancer risk. The risk ratios for the non-carcinogens were segregated and summed by target organ to develop a screening level estimate of the baseline cumulative non-cancer hazard.

**Assessment of Lead:** For lead, the results for shallow and deep sediments were pooled for the EU, and an arithmetic mean value was computed and compared to the applicable RSL (800 mg/kg) as an initial screening. If the mean concentration for the EU was below the applicable RSL, the EU would require no further action for lead. If the mean concentration exceeded the RSL, the mean value would be compared to calculated Adult Lead Model values (ALM Version dated 6/21/2009 updated with the 8/2/2016 OLEM Directive) with inputs of 1.7 for the geometric standard deviation and a blood baseline lead level of 0.7 ug/dL. The ALM calculation generates a lead concentration of 2,737 mg/kg, which is the most conservative (i.e., lowest) concentration which would yield a probability of 5% of a blood lead concentration of 10 ug/dL. If the arithmetic mean concentration for the EU was below 2,737 mg/kg, the EU would be identified as requiring no further action for lead. The average lead value is presented (for pooled sediments) in **Table 7**. For lead, all results equaling or exceeding 10,000 mg/kg would require delineation for possible excavation and removal (if applicable).

**Risk Characterization Approach:** For the EU, if the risk ratios for each non-carcinogenic COPC or cumulative target organ did not exceed 1 (with the exception of lead), and the sum of the risk ratios for the carcinogenic COPCs did not exceed a cumulative cancer risk of  $1E-5$ , then a no further action determination would be recommended.

If the estimate of cumulative cancer risk exceeded  $1E-5$ , but was less than  $1E-4$ , then capping of the EU would be considered to be an acceptable remedy for the Composite Worker. The efficacy of capping for elevated non-cancer hazard would be evaluated in terms of the magnitude of exceedance and other factors such as bioavailability of the

COPC. Similarly, for lead, if the ALM results indicated that the mean concentrations would present a 5% to 10% probability of a blood concentration of 10 ug/dL for the EU, then capping of the EU would be an acceptable presumptive remedy. The mean lead concentrations corresponding to ALM probabilities of 5% and 10% are 2,737 mg/kg, and 3,417 mg/kg, respectively. If capping of the identified area is not proposed, additional more detailed quantitative evaluation of risk will be required for the EU. This supplemental risk evaluation could include an evaluation of selective removal (excavation) to reduce site-wide cancer and/or non-cancer risks to acceptable levels.

The USEPA's acceptable risk range is between 1E-6 and 1E-4. If the sum of the risk ratios for carcinogens exceeded a cumulative cancer risk of 1E-4, further analysis of site conditions would be required including the consideration of toxicity reduction in any proposal for a remedy. The magnitude of non-carcinogen hazard exceedances and bioavailability of the COPC would also dictate further analysis of site conditions including consideration of toxicity reduction in any proposal for a remedy. In addition, if the ALM indicated that the mean concentrations would present a >10% probability of a blood concentration of 10 ug/dL for the EU, further analysis of site conditions including toxicity reduction would be completed such that the probability would be reduced to less than 10% after toxicity reduction, but before capping.

## 7.2. TIN MILL CANAL SLRA RESULTS AND RISK CHARACTERIZATION

The results for 2,4-dinitrotoluene were eliminated from the sediment COPCs dataset for risk assessment because this compound was very infrequently detected in the TMC sediments. This compound was only detected in 2% (1 sample) of the relevant samples. If the detection frequency of an analyte is less than 5% in a dataset with a minimum of 20 samples, the COPC can be eliminated from the risk analysis assuming the detections are not extremely high (based on agency discretion). A single detection that is extremely high could require delineation rather than elimination. In this case it is reasonable to remove 2,4-dinitrotoluene from the risk assessment based on the relatively low magnitude of the detection. Total PCBs have been included in the risk ratio analysis, but individual aroclors were omitted to avoid double-counting the risk associated with PCBs; the total PCB values include the sum of all aroclor mixtures. All remaining COPCs have been retained for the risk assessment based on the frequency of detections (>5%) in the overall sediment dataset.

EPCs for each applicable COPC were calculated for the pooled sediment dataset. As indicated above, the EPC for lead is the average (i.e., arithmetic mean) value for the pooled dataset. ProUCL output tables (with computed UCLs) derived from the data for each COPC in sediment are provided as electronic attachments, with computations presented and EPCs calculated for COPCs within the single pooled dataset for the EU. The ProUCL input tables are also included as electronic attachments. The calculated EPCs are shown in **Table 8**.

As indicated on **Table 7**, the pooled TMC sediments did not exceed an average lead value of 800 mg/kg. The screening criterion for lead was set at an exposure unit arithmetic mean of 800 mg/kg based on the RSL, with a secondary limit of 2,737 mg/kg based on the Adult Lead Model developed by the USEPA (corresponding to a 5% probability of a blood lead level of 10 ug/dL). There were no locations where detections of lead exceeded 10,000 mg/kg, the designated threshold at which delineation would be required.

Risk ratios for the estimates of potential EPCs for the Composite Worker scenario are shown in **Table 9** (pooled surface and subsurface sediments). The risk ratios indicated that the cumulative carcinogenic risk to a Composite Worker exposed to sediment was 2E-5. This level of risk exceeds the acceptable risk criterion identified in the Risk Characterization Approach for no further action (1E-5). When the non-cancer risks were segregated and summed by target organ for cumulative Hazard Index (HI), no target organ exceeded a cumulative HI of 1 in the pooled sediments (the level for no further action). The risk ratios indicate that an environmental capping remedy and institutional controls would be acceptable to mitigate any potential future exposures to TMC sediments.

### **7.3. MANAGEMENT OF PCB-CONTAMINATED MEDIA**

Sediments or contaminated media within the TMC sediments containing total PCB concentrations less than 50 mg/kg may be left in place if paved or otherwise capped.

Several sediment samples exceeded the level that would warrant mandatory delineation and excavation of PCBs (50 mg/kg). At this time, delineation activities have been completed within the TMC to define the areas with elevated PCBs. Material exceeding the threshold of 50 mg/kg will be excavated and disposed of at a permitted off-site commercial landfill approved to accept TSCA-regulated waste. As previously stated, the PCB detections in excess of 50 mg/kg were not included in the SLRA based on the expectation that applicable material will be excavated for appropriate disposal. A PCB excavation plan will be submitted under separate cover to the agencies for their review and approval.

## 8.0 FINDINGS AND RECOMMENDATIONS

The objective of the TMC investigations discussed herein was to fully characterize the nature and extent of contamination in sediments at the Site. During the investigation, a total of 143 sediment samples were collected and analyzed to define the nature and extent of contamination in the TMC. The sampling and analysis plan for the TMC was developed to provide adequate coverage throughout the TMC to identify potential releases of hazardous substances and/or petroleum products, and/or delineation elevated PCBs identified during the initial investigation. Sediment samples were analyzed for VOCs, SVOCs, metals, cyanide, and/or PCBs.

### 8.1. SEDIMENT

The concentrations of constituents in the sediment have been characterized to provide estimates of exposure point concentrations to support risk assessment.

Lead concentrations are well below the levels that would warrant evaluation of a removal remedy. None of the individual lead detections exceeded the mandatory delineation threshold of 10,000 mg/kg. The average lead concentration in the pooled sediments was well below the 800 mg/kg RSL in the TMC, indicating that no further action is needed with respect to lead.

Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs exceeded their respective PALs in multiple locations collected from the TMC. Several deep sediment samples (TM-SD-31 (D), TM-SB-118, TM-SD-120, and TM-SD-124) exceeded the level that would warrant mandatory delineation and excavation of total PCBs (50 mg/kg). The extent of the TMC where total PCBs were identified above 50 mg/kg has been laterally delineated. Material exceeding the threshold of 50 mg/kg is required to be excavated and disposed of at a permitted off-site commercial landfill approved to accept TSCA-regulated PCB waste.

There was one VOC detection in excess of the applicable PAL. Benzene was detected in composite sample TM-SD-72 (D) at a concentration of 18 mg/kg. The remaining PAL exceedances in soil consisted of three inorganics (arsenic, cobalt, and lead) and three SVOCs (benzo[a]pyrene, naphthalene, and 2,4-dinitrotoluene). Arsenic was the most common inorganic exceedance, and was detected above the PAL in 62 of the total sediment samples analyzed at the Site. The maximum detection of arsenic was 132 mg/kg at sample location TM-SD-64. Lead and cobalt were each limited to a single PAL exceedance, in samples TM-SD-86 (946 mg/kg) and TM-SD-03 (386 mg/kg), respectively. Benzo[a]pyrene exceeded the PAL in the largest number of samples (three) of any SVOC. The maximum detection of benzo[a]pyrene was 10.3 mg/kg in composite sample TM-SD-51 (D). Naphthalene and 2,4-dinitrotoluene were each limited to a single PAL exceedance, in composite samples TM-SD-72 (D) (137 mg/kg) and TM-SD-10 (D) (26.8 mg/kg), respectively.



## 8.2. REMEDIATION WASTE CHARACTERIZATION

TCLP testing of discrete and composite sediment samples recovered from all transects was completed for regulated volatile, semi-volatile and metal constituents. No exceedances of the TCLP regulatory limits were identified. Furthermore, none of the maximum detected concentrations or maximum MDLs for all hazardous constituents (except PCBs) exceeded their respective health-based levels below which contaminated environmental media would be considered to no longer contain hazardous waste (“contained-in” criteria i.e., Adjusted RSLs). Therefore, with the exception of sediment with concentrations of PCBs greater than 50 mg/kg, the contaminated environmental media that will be excavated/dredged from the canal will be considered “contained out” and will not require management as a hazardous waste..

Sediments or contaminated media containing total PCB concentrations greater than 50 mg/kg are subject to requirements under TSCA. Therefore, material with total PCB concentrations greater than 50 mg/kg will be excavated and segregated for transport and disposal off-site to a permitted hazardous waste landfill approved to accept TSCA-regulated waste.

The sediments contain high moisture content and exhibit the presence of free liquids. Dewatering and stabilization will be required prior to disposal in the on-site Greys landfill or transport off-site to a permitted hazardous waste landfill approved to accept TSCA-regulated waste.. Bench or field testing should be conducted to determine an appropriate sorbent agent and the appropriate dewatering, dosing and mixing methods to eliminate free liquids and achieve a consistency suitable for transport and disposal.

## 8.3. HUMAN HEALTH SCREENING ANALYSIS

The current Composite Worker could potentially be exposed to sediments in the TMC. The SLRA analysis indicated that the cumulative cancer risk for the Composite Worker exposure to sediments, after removal of the sediment that will be excavated for off-site disposal due to PCB detections above 50 mg/kg, was equal to 2E-5, above the regulatory benchmark for no further action (1E-5). The main contributors to carcinogenic risk in pooled TMC sediments were naphthalene and arsenic. The acceptable cumulative non-cancer HI of 1 was not exceeded for any organ system evaluated for Composite Worker exposure to sediments. Since no cumulative HI exceeded 1 for any target organ system and the estimates of cumulative cancer risk for exposure to sediments were less than 1E-4, environmental capping, after removal of sediments containing PCB concentrations exceeding 50 mg/kg, would be an acceptable remedy for protection of the current and future Composite Worker.

## 8.4. RECOMMENDATIONS

Sufficient remedial investigation data has been collected to evaluate the nature and extent of possible constituents of concern in the TMC and further investigation is not warranted. The

TMC does not meet the criteria for no further action, and the following remedial action or further evaluation is recommended to prevent potential unacceptable exposures:

- Sediment impacted by elevated PCBs (>50 mg/kg) in the northern portion of the TMC are required to be excavated. Lateral delineation has been completed, but the depth of sediments containing PCB concentrations greater than 50 mg/kg should be delineated during removal activities. Material exceeding the threshold of 50 mg/kg should be excavated and disposed of at a permitted off-site hazardous waste landfill approved to accept TSCA-regulated waste. Excavated sediments with concentrations of PCBs less than 50 mg/kg are considered non-hazardous and can be disposed at Greys Landfill. An excavation plan will be submitted to the agencies for approval.
- Supplemental excavation of sediments should be implemented to achieve appropriate hydraulic slope and cross-sectional area and to facilitate placement of an engineered barrier for protection of the current and future Composite Worker. This engineered barrier can be designed to provide acceptable stormwater quality for discharge without active treatment. Environmental capping, after excavation of sediments containing PCB concentrations exceeding 50 mg/kg, would be an acceptable remedy for protection of current and future Composite Worker.
- Institutional controls should be implemented to ensure proper maintenance of the engineered barrier.



## 9.0 REFERENCES

ARM Group, Inc. (2016). *Quality Assurance Project Plan: Sparrows Point Terminal Site*. Revision 3. April 5<sup>th</sup>, 2016.

Rust Environmental & Infrastructure (1998). *Description of Current Conditions: Bethlehem Steel Corporation*. Final Draft. January, 1998.

ATSDR, 2000. *TOXICOLOGICAL PROFILE FOR POLYCHLORINATED BIPHENYLS (PCBs)*. Agency for Toxic Substances and Disease Registry. November 2000

USEPA, 2005. *Polychlorinated Biphenyl (PCB) Site Revitalization Guidance Under the Toxic Substances Control Act (TSCA)*, November 2005

---

---

## **FIGURES**

---

---

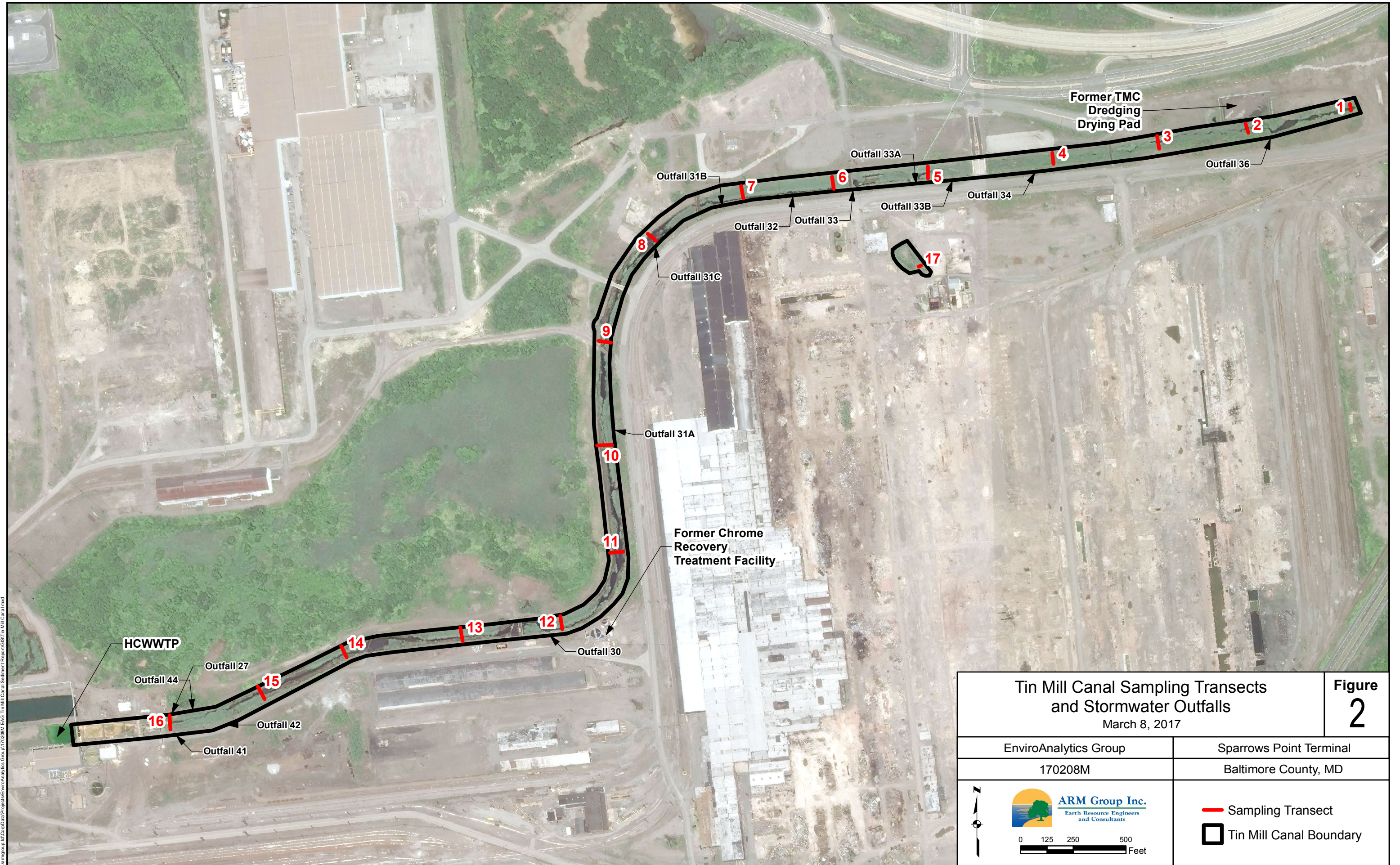




Image courtesy of USGS Earthstar Geographics SIO © 2016 Microsoft Corporation

|   |   |   |  |  |                                    |
|---|---|---|--|--|------------------------------------|
|   <p>0 375 750 1,500 Feet</p> | <ul style="list-style-type: none"> <li><span style="border: 1px solid green; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Site Boundary</li> <li><span style="background-color: gray; border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Private Property</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Area A Boundaries</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Area B Boundaries</li> </ul> | <p><b>Tradepoint Atlantic</b><br/> <b>Area A and Area B Parcels</b></p> <p>August 1, 2016</p> | <p>EnviroAnalytics Group</p> <p>Area A: Project 150298M<br/>         Area B: Project 150300M</p> | <p>Tradepoint Atlantic</p> <p>Baltimore County, MD</p> | <p><b>Figure</b><br/> <b>1</b></p> |
|---|---|---|--|--|------------------------------------|


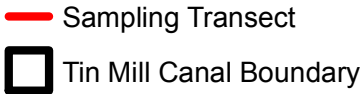






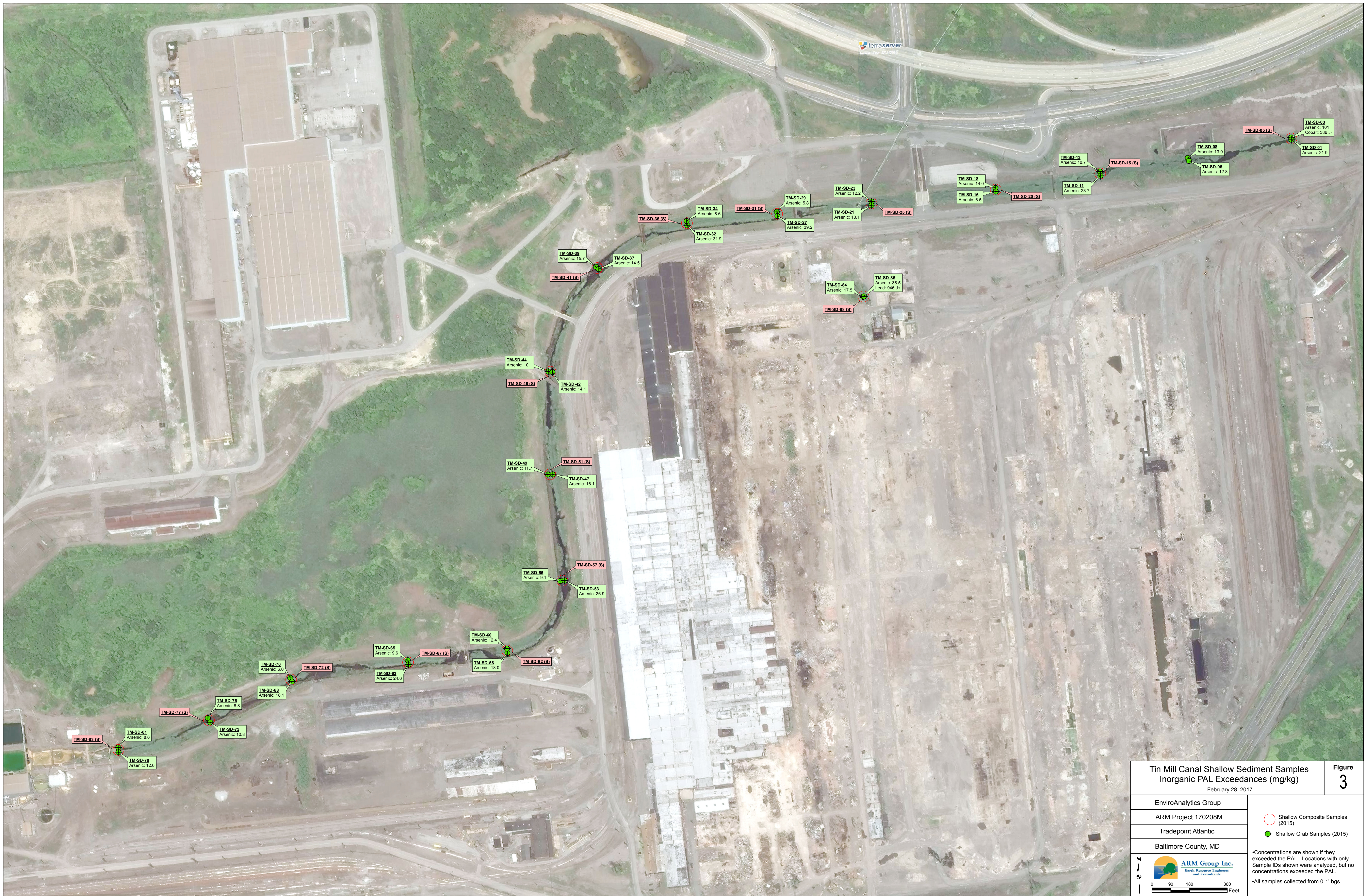
Tin Mill Canal Sampling Transects  
and Stormwater Outfalls

March 8, 2017

Figure  
2

|  |  |
|--|--|
| EnviroAnalytics Group  | Sparrows Point Terminal  |
| 170208M  | Baltimore County, MD   |
| <br>ARM Group Inc.<br>Earth Resource Engineers<br>and Consultants |  <ul style="list-style-type: none"> <li> Sampling Transect</li> <li> Tin Mill Canal Boundary</li> </ul> |





Tin Mill Canal Shallow Sediment Samples  
Inorganic PAL Exceedances (mg/kg)  
February 28, 2017

|                       |   |
|-----------------------|---|
| EnviroAnalytics Group | <ul style="list-style-type: none"> <li>○ Shallow Composite Samples (2015)</li> <li>● Shallow Grab Samples (2015)</li> </ul> <p>*Concentrations are shown if they exceeded the PAL. Locations with only Sample IDs shown were analyzed, but no concentrations exceeded the PAL.<br/>*All samples collected from 0-1' bgs</p> |
| ARM Project 170208M   |   |
| Tradepoint Atlantic   |   |
| Baltimore County, MD  |   |

ARM Group Inc.  
Earth Resource Engineers and Consultants

0 90 180 360 Feet





**Tin Mill Canal Deep Sediment Samples Inorganic PAL Exceedances (mg/kg)**  
 March 10, 2017

**Figure 4**

|                       |                               |
|-----------------------|-------------------------------|
| EnviroAnalytics Group | Deep Composite Samples (2016) |
| ARM Project 170208M   | Deep Composite Samples (2015) |
| Tradepoint Atlantic   | Deep Grab Samples (2016)      |
| Baltimore County, MD  | Deep Grab Samples (2015)      |

ARM Group Inc.  
 Earth Resource Engineers and Consultants

0 90 180 360 Feet

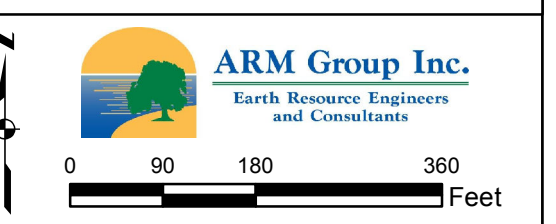
Concentrations are shown if they exceeded the PAL. Locations with only Sample IDs shown were analyzed, but no concentrations exceeded the PAL.





Tin Mill Canal Shallow Sediment Samples  
 SVOC PAL Exceedances (mg/kg)  
 February 28, 2017

EnviroAnalytics Group  
 ARM Project 170208M  
 Tradepoint Atlantic  
 Baltimore County, MD



○ Shallow Composite Samples (2015)  
 \*Concentrations are shown if they exceeded the PAL. Locations with only Sample IDs shown were analyzed, but no concentrations exceeded the PAL.  
 \*All samples collected from 0-1' dgs

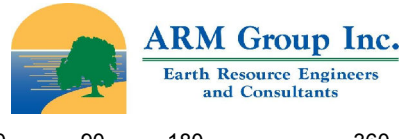




**Tin Mill Canal Deep Sediment Samples  
VOC/SVOC PAL Exceedances (mg/kg)**  
February 28, 2017

**Figure 6**

|                       |   |
|-----------------------|---|
| EnviroAnalytics Group | <ul style="list-style-type: none"> <li><span style="color: blue;">○</span> Deep Composite Samples (2016)</li> <li><span style="color: red;">○</span> Deep Composite Samples (2015)</li> </ul> <p>Concentrations are shown if they exceeded the PAL. Locations with only Sample IDs shown were analyzed, but no concentrations exceeded the PAL.</p> |
| ARM Project 170208M   |   |
| Tradepoint Atlantic   |   |
| Baltimore County, MD  |   |


**ARM Group Inc.**  
 Earth Resource Engineers and Consultants

0 90 180 360 Feet





Tin Mill Canal Shallow Sediment Samples  
PCB PAL Exceedances (mg/kg)  
February 28, 2017

Figure  
7

|                       |   |
|-----------------------|---|
| EnviroAnalytics Group | <ul style="list-style-type: none"> <li>○ Shallow Composite Samples (2015)</li> <li>✚ Shallow Grab Samples (2016)</li> </ul> <p>*Concentrations are shown if they exceeded the PAL. Locations with only Sample IDs shown were analyzed, but no concentrations exceeded the PAL.<br/>*All samples collected from 0-1' bgs</p> |
| ARM Project 170208M   |   |
| Tradepoint Atlantic   |   |
| Baltimore County, MD  |   |

**ARM Group Inc.**  
Earth Resource Engineers  
and Consultants

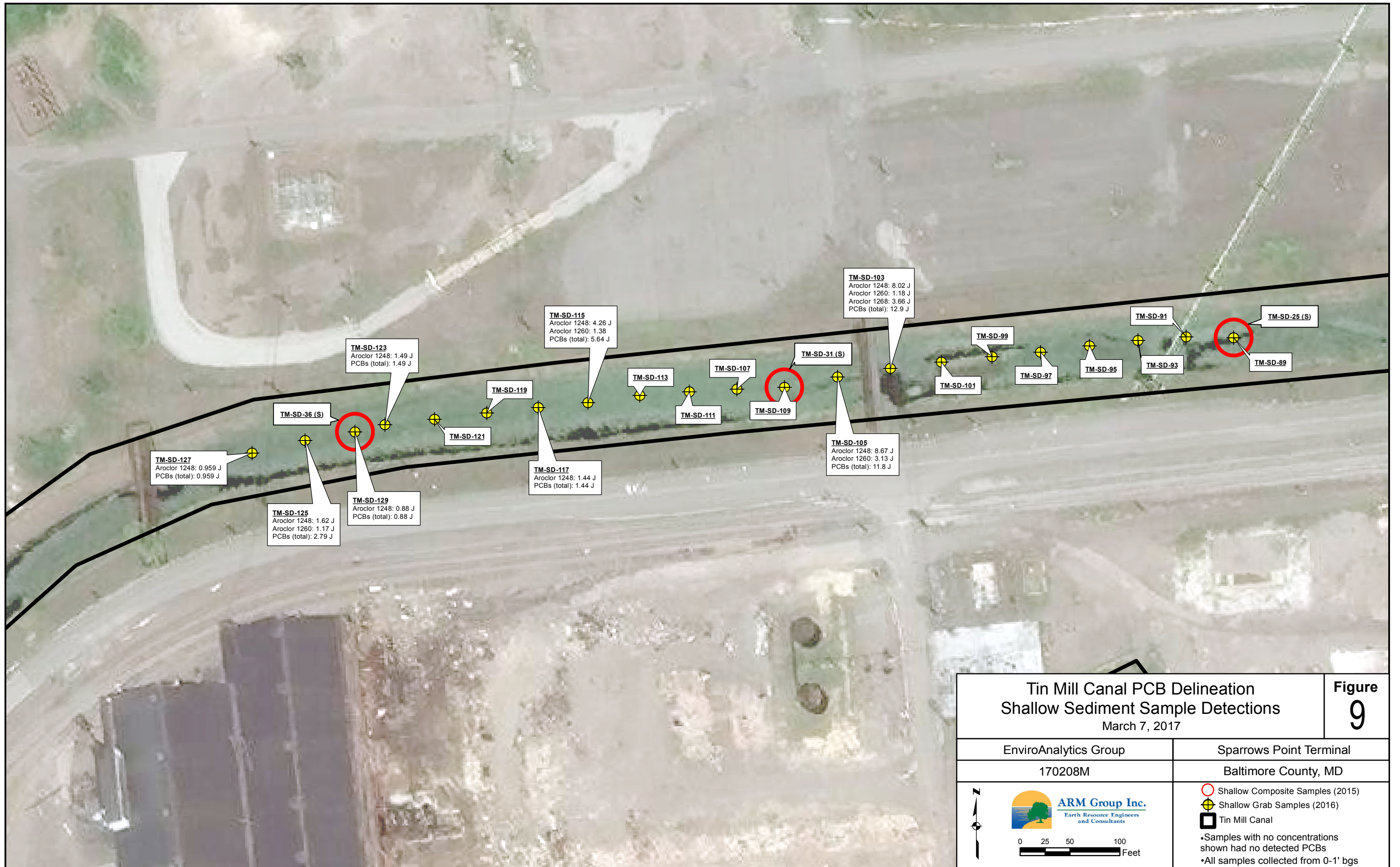
0 90 180 360  
Feet


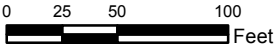




|  |  |   |
|--|--|---|
| <b>Tin Mill Canal Deep Sediment Samples</b><br><b>PCB PAL Exceedances (mg/kg)</b><br>February 28, 2017 |  | <b>Figure</b><br><b>8</b>   |
| EnviroAnalytics Group<br>ARM Project 170208M<br>Tradepoint Atlantic<br>Baltimore County, MD            | <ul style="list-style-type: none"> <li>○ Deep Composite Samples (2015)</li> <li>⊕ Deep Grab Samples (2016)</li> <li>— Drainage+Trenches</li> </ul> | Concentrations are shown if they exceeded the PAL. Locations with only Sample IDs shown were analyzed, but no concentrations exceeded the PAL.<br><b>PCB detections over 50 mg/kg shown in red.</b> |
|  |  | 0 90 180 360 Feet   |





|   |   |   |
|---|---|---|
| <b>Tin Mill Canal PCB Delineation</b><br><b>Shallow Sediment Sample Detections</b><br>March 7, 2017 |   | <b>Figure</b><br><span style="font-size: 2em;">9</span>   |
| EnviroAnalytics Group<br>170208M  | Sparrows Point Terminal<br>Baltimore County, MD |   |
|                |   | <ul style="list-style-type: none"> <li><span style="color: red;">○</span> Shallow Composite Samples (2015)</li> <li><span style="color: yellow;">●</span> Shallow Grab Samples (2016)</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Tin Mill Canal</li> <li>• Samples with no concentrations shown had no detected PCBs</li> <li>• All samples collected from 0-1' bgs</li> </ul> |
|                |   |   |





**Figure 10**

I:\imgroup\del\CompData\Project\EnviroAnalytics Group\170208M EAG Tin Mill Canal Sediment Report\GIS\Tin Mill Canal.mxd

---

---

## **TABLES**

---

---

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 1 |             |            |             |           |             |
|--|-----------|-------|------------|-------------|------------|-------------|-----------|-------------|
|  |           |       | TM-SD-01   | TM-SD-02    | TM-SD-03   | TM-SD-04    | TM-SD-05  | TM-SD-05    |
|  |           |       | 4/14/2015  | 8/12/2015   | 4/14/2015  | 8/12/2015   | 4/14/2015 | 8/12/2015   |
|  |           |       | Discrete   | Discrete    | Discrete   | Discrete    | Composite | Composite   |
| Compound   | PAL       | Units | South 0-6" | No Recovery | North 0-6" | No Recovery | 0-6"      | No Recovery |
| <b>VOC</b>   |           |       |            |             |            |             |           |             |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.466 U    |             | 0.546 U    |             |           |             |
| 2-Hexanone   | 1300      | mg/kg | 0.466 U    |             | 0.546 U    |             |           |             |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.466 U    |             | 0.546 U    |             |           |             |
| Acetone  | 670000    | mg/kg | 0.466 U    |             | 0.575      |             |           |             |
| Benzene  | 5.1       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Bromoform  | 86        | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Carbon disulfide   | 3500      | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Chlorobenzene  | 1300      | mg/kg | 0.874      |             | 0.273 U    |             |           |             |
| Chloroethane   | 57000     | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Chloroform   | 1.4       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Ethylbenzene   | 25        | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Methylene Chloride   | 1000      | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Tetrachloroethene  | 100       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Toluene  | 47000     | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Trichloroethene  | 6         | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Vinyl chloride   | 1.7       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| Xylene (Total)   | 2800      | mg/kg | 0.698 U    |             | 0.819 U    |             |           |             |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.233 U    |             | 0.273 U    |             |           |             |
| <b>Metals</b>  |           |       |            |             |            |             |           |             |
| Antimony   | 470.0     | mg/kg | 1 UJ       |             | 1.7 J-     |             |           |             |
| Arsenic  | 3.0       | mg/kg | 21.9       |             | 101        |             |           |             |
| Barium   | 220,000.0 | mg/kg | 268 J      |             | 101 J      |             |           |             |
| Beryllium  | 2,300.0   | mg/kg | 1.2 J      |             | 0.29 J     |             |           |             |
| Cadmium  | 980.0     | mg/kg | 3 J        |             | 14.9 J     |             |           |             |
| Chromium   | 120,000.0 | mg/kg | 809        |             | 379        |             |           |             |
| Cobalt   | 350.0     | mg/kg | 42.1 J-    |             | 386 J-     |             |           |             |
| Copper   | 47,000.0  | mg/kg | 268        |             | 1820       |             |           |             |
| Lead   | 800.0     | mg/kg | 138 J-     |             | 198 J-     |             |           |             |
| Nickel   | 22,000.0  | mg/kg | 37.2 J     |             | 77 J       |             |           |             |
| Selenium   | 5,800.0   | mg/kg | 7.9        |             | 18.2       |             |           |             |
| Silver   | 5,800.0   | mg/kg | 1.3        |             | 20.2       |             |           |             |
| Thallium   | 12.0      | mg/kg | 0.65 J     |             | 1.8 B      |             |           |             |
| Tin  | 700,000.0 | mg/kg | 30.5 J     |             | 32.3 J     |             |           |             |
| Vanadium   | 5,800.0   | mg/kg | 980 J      |             | 628 J      |             |           |             |
| Zinc   | 350,000.0 | mg/kg | 773 J      |             | 4280 J     |             |           |             |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.2 U      |             | 1.4 U      |             |           |             |
| Mercury  | 350.0     | mg/kg | 0.12 J-    |             | 0.21 J-    |             |           |             |
| <b>PCB</b>   |           |       |            |             |            |             |           |             |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |            |             |            |             | 0.219 U   |             |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |            |             |            |             | 0.219 U   |             |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |            |             |            |             | 0.219 U   |             |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |            |             |            |             | 0.219 U   |             |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |            |             |            |             | 0.125 J   |             |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |            |             |            |             | 0.219 U   |             |
| <b>Cyanide</b>   |           |       |            |             |            |             |           |             |
| Cyanide  | 150       | mg/kg |            |             |            |             | 1.1 UJ    |             |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 1 |           |            |             |            |             |             |         |             |
|--|------------|-----------|------------|-------------|------------|-------------|-------------|---------|-------------|
|  | TM-SD-01   | TM-SD-02  | TM-SD-03   | TM-SD-04    | TM-SD-05   | TM-SD-05    |             |         |             |
|  | 4/14/2015  | 8/12/2015 | 4/14/2015  | 8/12/2015   | 4/14/2015  | 8/12/2015   |             |         |             |
|  | Discrete   | Discrete  | Discrete   | Discrete    | Composite  | Composite   |             |         |             |
| Compound   | PAL        | Units     | South 0-6" | No Recovery | North 0-6" | No Recovery | No Recovery | 0-6"    | No Recovery |
| <b>SVOC</b>  |            |           |            |             |            |             |             |         |             |
| 1,2,4-Trichlorobenzene   | 110        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 1,2-Dichlorobenzene  | 9300       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 1,3-Dichlorobenzene  |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 1,4-Dichlorobenzene  | 11         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2,4,5-Trichlorophenol  | 82000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2,4,6-Trichlorophenol  | 210        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2,4-Dichlorophenol   | 2500       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2,4-Dimethylphenol   | 16000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2,4-Dinitrophenol  | 1600       | mg/kg     |            |             |            |             |             | 21.9 RR |             |
| 2,4-Dinitrotoluene   | 7.4        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2,6-Dinitrotoluene   | 1.5        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2-Chloronaphthalene  | 60000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2-Chlorophenol   | 5800       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2-Methylnaphthalene  | 3000       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2-Methylphenol(o-Cresol)   | 41000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 2-Nitrophenol  |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 3&4-Methylphenol(m&p Cresol)   | 41000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 3,3'-Dichlorobenzidine   | 5.1        | mg/kg     |            |             |            |             |             | 21.9 RR |             |
| 3,3'-Dimethylbenzidine   | 0.21       | mg/kg     |            |             |            |             |             | 43.7 RR |             |
| 4,6-Dinitro-2-methylphenol   | 66         | mg/kg     |            |             |            |             |             | 8.75 RR |             |
| 4-Bromophenylphenyl ether  |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 4-Chloro-3-methylphenol  | 82000      | mg/kg     |            |             |            |             |             | 8.75 RR |             |
| 4-Chlorophenylphenyl ether   |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| 4-Nitrophenol  |            | mg/kg     |            |             |            |             |             | 21.9 RR |             |
| Acenaphthene   | 45000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Acenaphthylene   | 45000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Anthracene   | 230000     | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Benzo(a)anthracene   | 21         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Benzo(a)pyrene   | 2.1        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Benzo(b)fluoranthene   | 21         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Benzo(g,h,i)perylene   |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Benzo(k)fluoranthene   | 210        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Butylbenzylphthalate   | 1200       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Di-n-butylphthalate  | 82000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Di-n-octylphthalate  | 8200       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Dibenz(a,h)anthracene  | 2.1        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Diethylphthalate   | 660000     | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Dimethylphthalate  |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Fluoranthene   | 30000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Fluorene   | 30000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Hexachloro-1,3-butadiene   | 5.3        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Hexachlorobenzene  | 0.96       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Hexachlorocyclopentadiene  | 7.5        | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Hexachloroethane   | 8          | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Indeno(1,2,3-cd)pyrene   | 21         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Isophorone   | 2400       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Naphthalene  | 17         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Nitrobenzene   | 22         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Pentachloroethane  | 36         | mg/kg     |            |             |            |             |             | 8.75 RR |             |
| Pentachlorophenol  | 4          | mg/kg     |            |             |            |             |             | 21.9 RR |             |
| Phenanthrene   |            | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Phenol   | 250000     | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Pyrene   | 23000      | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| Pyridine   | 1200       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| bis(2-Chloroethoxy)methane   | 2500       | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| bis(2-Chloroethyl) ether   | 1          | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| bis(2-Chloroisopropyl) ether   | 22         | mg/kg     |            |             |            |             |             | 4.37 RR |             |
| bis(2-Ethylhexyl)phthalate   | 160        | mg/kg     |            |             |            |             |             | 4.37 RR |             |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification       | Transect 2  |            |             |            |           |          |
|-----------------------------|-------------|------------|-------------|------------|-----------|----------|
|                             | TM-SD-06    | TM-SD-07   | TM-SD-08    | TM-SD-09   | TM-SD-10  |          |
|                             | 4/14/2015   | 4/14/2015  | 4/14/2015   | 4/14/2015  | 4/14/2015 |          |
| Sample Date                 | Discrete    | Discrete   | Discrete    | Discrete   | Composite |          |
| Sample Type                 | South 0-12" | South 4-5' | North 0-12" | North 4-5' | 4-5'      |          |
| Sample Location and Depth   | PAL         | Units      |             |            |           |          |
| <b>VOC</b>                  |             |            |             |            |           |          |
| 1,1,1,2-Tetrachloroethane   | 8.8         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,1,1-Trichloroethane       | 36000       | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,1,2,2-Tetrachloroethane   | 2.7         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,1,2-Trichloroethane       | 5           | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,1-Dichloroethane          | 16          | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,1-Dichloroethene          | 1000        | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,2-Dichloroethane          | 2           | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 1,2-Dichloropropane         | 4.4         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| 2-Butanone (MEK)            | 190000      | mg/kg      | 0.687 U     | 0.638 U    | 0.516 U   | 0.289 U  |
| 2-Hexanone                  | 1300        | mg/kg      | 0.687 U     | 0.638 U    | 0.516 U   | 0.289 U  |
| 4-Methyl-2-pentanone (MIBK) | 56000       | mg/kg      | 0.119 J     | 0.638 U    | 0.246 J   | 0.289 U  |
| Acetone                     | 670000      | mg/kg      | 0.687 U     | 0.638 U    | 0.516 U   | 0.289 U  |
| Benzene                     | 5.1         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Bromoform                   | 86          | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Carbon disulfide            | 3500        | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Carbon tetrachloride        | 2.9         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Chlorobenzene               | 1300        | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Chloroethane                | 57000       | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Chloroform                  | 1.4         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Ethylbenzene                | 25          | mg/kg      | 0.343 U     | 0.211 J    | 0.258 U   | 0.145 U  |
| Methylene Chloride          | 1000        | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Tetrachloroethene           | 100         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Toluene                     | 47000       | mg/kg      | 0.133 J     | 0.412      | 0.501     | 0.145 U  |
| Trichloroethene             | 6           | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Vinyl chloride              | 1.7         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| Xylene (Total)              | 2800        | mg/kg      | 1.03 U      | 0.525 J    | 0.775 U   | 0.434 U  |
| cis-1,3-Dichloropropene     | 8.2         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| trans-1,2-Dichloroethene    | 23000       | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| trans-1,3-Dichloropropene   | 8.2         | mg/kg      | 0.343 U     | 0.319 U    | 0.258 U   | 0.145 U  |
| <b>Metals</b>               |             |            |             |            |           |          |
| Antimony                    | 470.0       | mg/kg      | 10.1 J-     | 8.2 J-     | 11.2 J-   | 3.7 J-   |
| Arsenic                     | 3.0         | mg/kg      | 12.8        | 10.5       | 13.9      | 18       |
| Barium                      | 220,000.0   | mg/kg      | 446 J       | 48.4 J     | 290 J     | 17.7 J   |
| Beryllium                   | 2,300.0     | mg/kg      | 0.34 J      | 0.12 B     | 0.2 B     | 0.071 B  |
| Cadmium                     | 980.0       | mg/kg      | 0.36 J      | 0.69 J     | 4.4 J     | 0.21 U   |
| Chromium                    | 120,000.0   | mg/kg      | 467         | 263        | 347       | 368      |
| Cobalt                      | 350.0       | mg/kg      | 15.5 J-     | 16 J-      | 15.6 J-   | 16.9 J-  |
| Copper                      | 47,000.0    | mg/kg      | 221         | 221        | 256       | 135      |
| Lead                        | 800.0       | mg/kg      | 64 J        | 80.8 J-    | 291 J-    | 27.3 J-  |
| Nickel                      | 22,000.0    | mg/kg      | 283 J       | 123 J      | 185 J     | 172 J    |
| Selenium                    | 5,800.0     | mg/kg      | 1           | 1.3        | 1.5       | 1.4      |
| Silver                      | 5,800.0     | mg/kg      | 2.2         | 2.9        | 4.5       | 2.4      |
| Thallium                    | 12.0        | mg/kg      | 1.8 U       | 1.6 U      | 2 U       | 1.4 U    |
| Tin                         | 700,000.0   | mg/kg      | 111 J       | 652 J      | 219 J     | 43.5 J   |
| Vanadium                    | 5,800.0     | mg/kg      | 48.5 J      | 39.4 J     | 36.8 J    | 28.5 J   |
| Zinc                        | 350,000.0   | mg/kg      | 1070 J      | 1240 J     | 7400 J    | 242 J    |
| Chromium, Hexavalent        | 6.3         | mg/kg      | 1.4 U       | 1.3 U      | 1.3 U     | 1.2 U    |
| Mercury                     | 350.0       | mg/kg      | 0.38 J-     | 0.28 J-    | 0.36 J-   | 0.026 J- |
| <b>PCB</b>                  |             |            |             |            |           |          |
| PCB-1016 (Aroclor 1016)     | 27          | mg/kg      |             |            |           | 1.59 U   |
| PCB-1221 (Aroclor 1221)     | 0.72        | mg/kg      |             |            |           | 1.59 U   |
| PCB-1232 (Aroclor 1232)     | 0.72        | mg/kg      |             |            |           | 1.59 U   |
| PCB-1242 (Aroclor 1242)     | 0.97        | mg/kg      |             |            |           | 1.59 U   |
| PCB-1248 (Aroclor 1248)     | 0.94        | mg/kg      |             |            |           | 1.59 U   |
| PCB-1254 (Aroclor 1254)     | 0.97        | mg/kg      |             |            |           | 1.59 U   |
| <b>Cyanide</b>              |             |            |             |            |           |          |
| Cyanide                     | 150         | mg/kg      |             |            |           | 1 J-     |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.



**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 2  |            |             |            |           |
|--|-------------|------------|-------------|------------|-----------|
|  | TM-SD-06    | TM-SD-07   | TM-SD-08    | TM-SD-09   | TM-SD-10  |
|  | 4/14/2015   | 4/14/2015  | 4/14/2015   | 4/14/2015  | 4/14/2015 |
|  | Discrete    | Discrete   | Discrete    | Discrete   | Composite |
|  | South 0-12" | South 4-5' | North 0-12" | North 4-5' | 4-5'      |
| Compound   | PAL         | Units      |             |            |           |
| <b>SVOC</b>  |             |            |             |            |           |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg      |             |            | 23 RR     |
| 1,2-Dichlorobenzene  | 9300        | mg/kg      |             |            | 23 RR     |
| 1,3-Dichlorobenzene  |             | mg/kg      |             |            | 23 RR     |
| 1,4-Dichlorobenzene  | 11          | mg/kg      |             |            | 23 RR     |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg      |             |            | 23 RR     |
| 2,4,6-Trichlorophenol  | 210         | mg/kg      |             |            | 23 RR     |
| 2,4-Dichlorophenol   | 2500        | mg/kg      |             |            | 23 RR     |
| 2,4-Dimethylphenol   | 16000       | mg/kg      |             |            | 23 RR     |
| 2,4-Dinitrophenol  | 1600        | mg/kg      |             |            | 115 RR    |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg      |             |            | 26.8 RR   |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg      |             |            | 23 RR     |
| 2-Chloronaphthalene  | 60000       | mg/kg      |             |            | 23 RR     |
| 2-Chlorophenol   | 5800        | mg/kg      |             |            | 23 RR     |
| 2-Methylnaphthalene  | 3000        | mg/kg      |             |            | 23 RR     |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg      |             |            | 23 RR     |
| 2-Nitrophenol  |             | mg/kg      |             |            | 23 RR     |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg      |             |            | 23 RR     |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg      |             |            | 115 RR    |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg      |             |            | 230 RR    |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg      |             |            | 45.9 RR   |
| 4-Bromophenylphenyl ether  |             | mg/kg      |             |            | 23 RR     |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg      |             |            | 45.9 RR   |
| 4-Chlorophenylphenyl ether   |             | mg/kg      |             |            | 23 RR     |
| 4-Nitrophenol  |             | mg/kg      |             |            | 115 RR    |
| Acenaphthene   | 45000       | mg/kg      |             |            | 23 RR     |
| Acenaphthylene   | 45000       | mg/kg      |             |            | 23 RR     |
| Anthracene   | 230000      | mg/kg      |             |            | 23 RR     |
| Benzo(a)anthracene   | 21          | mg/kg      |             |            | 23 RR     |
| Benzo(a)pyrene   | 2.1         | mg/kg      |             |            | 23 RR     |
| Benzo(b)fluoranthene   | 21          | mg/kg      |             |            | 23 RR     |
| Benzo(g,h,i)perylene   |             | mg/kg      |             |            | 23 RR     |
| Benzo(k)fluoranthene   | 210         | mg/kg      |             |            | 23 RR     |
| Butylbenzylphthalate   | 1200        | mg/kg      |             |            | 23 RR     |
| Di-n-butylphthalate  | 82000       | mg/kg      |             |            | 23 RR     |
| Di-n-octylphthalate  | 8200        | mg/kg      |             |            | 23 RR     |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg      |             |            | 23 RR     |
| Diethylphthalate   | 660000      | mg/kg      |             |            | 23 RR     |
| Dimethylphthalate  |             | mg/kg      |             |            | 23 RR     |
| Fluoranthene   | 30000       | mg/kg      |             |            | 23 RR     |
| Fluorene   | 30000       | mg/kg      |             |            | 23 RR     |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg      |             |            | 23 RR     |
| Hexachlorobenzene  | 0.96        | mg/kg      |             |            | 23 RR     |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg      |             |            | 23 RR     |
| Hexachloroethane   | 8           | mg/kg      |             |            | 23 RR     |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg      |             |            | 23 RR     |
| Isophorone   | 2400        | mg/kg      |             |            | 23 RR     |
| Naphthalene  | 17          | mg/kg      |             |            | 23 RR     |
| Nitrobenzene   | 22          | mg/kg      |             |            | 23 RR     |
| Pentachloroethane  | 36          | mg/kg      |             |            | 45.9 RR   |
| Pentachlorophenol  | 4           | mg/kg      |             |            | 115 RR    |
| Phenanthrene   |             | mg/kg      |             |            | 23 RR     |
| Phenol   | 250000      | mg/kg      |             |            | 23 RR     |
| Pyrene   | 23000       | mg/kg      |             |            | 23 RR     |
| Pyridine   | 1200        | mg/kg      |             |            | 23 RR     |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg      |             |            | 23 RR     |
| bis(2-Chloroethyl) ether   | 1           | mg/kg      |             |            | 23 RR     |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg      |             |            | 23 RR     |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg      |             |            | 23 RR     |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification       | Transect 3  |            |             |            |            |           |           |
|-----------------------------|-------------|------------|-------------|------------|------------|-----------|-----------|
|                             | TM-SD-11    | TM-SD-12   | TM-SD-13    | TM-SD-14   | TM-SD-14   | TM-SD-15  | TM-SD-15  |
|                             | 4/15/2015   | 8/12/2015  | 4/16/2015   | 4/16/2015  | 8/12/2015  | 4/16/2015 | 8/12/2015 |
|                             | Discrete    | Discrete   | Discrete    | Discrete   | Discrete   | Composite | Composite |
| Sample Location and Depth   | South 0-12" | South 3-4' | North 0-12" | North 4-5' | North 3-4' | 0-12"     | 3-4'      |
| Compound                    | PAL         | Units      |             |            |            |           |           |
| <b>VOC</b>                  |             |            |             |            |            |           |           |
| 1,1,1,2-Tetrachloroethane   | 8.8         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| 1,1,1-Trichloroethane       | 36000       | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 UJ  |
| 1,1,2,2-Tetrachloroethane   | 2.7         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| 1,1,2-Trichloroethane       | 5           | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| 1,1-Dichloroethane          | 16          | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 UJ  |
| 1,1-Dichloroethene          | 1000        | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| 1,2-Dichloroethane          | 2           | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 UJ  |
| 1,2-Dichloropropane         | 4.4         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| 2-Butanone (MEK)            | 190000      | mg/kg      | 0.685 U     | 0.717 U    | 0.576 U    | 0.793 U   | 0.839 U   |
| 2-Hexanone                  | 1300        | mg/kg      | 0.685 U     | 0.717 U    | 0.576 U    | 0.793 U   | 0.839 U   |
| 4-Methyl-2-pentanone (MIBK) | 56000       | mg/kg      | 0.685 U     | 0.717 U    | 0.576 U    | 0.793 U   | 0.839 U   |
| Acetone                     | 670000      | mg/kg      | 0.685 U     | 0.717 U    | 0.576 U    | 0.793 U   | 0.839 U   |
| Benzene                     | 5.1         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Bromoform                   | 86          | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Carbon disulfide            | 3500        | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Carbon tetrachloride        | 2.9         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 UJ  |
| Chlorobenzene               | 1300        | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Chloroethane                | 57000       | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Chloroform                  | 1.4         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Ethylbenzene                | 25          | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Methylene Chloride          | 1000        | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 UJ  |
| Tetrachloroethene           | 100         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Toluene                     | 47000       | mg/kg      | 0.343 U     | 0.211 J    | 0.288 U    | 0.397 U   | 0.419 U   |
| Trichloroethene             | 6           | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Vinyl chloride              | 1.7         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| Xylene (Total)              | 2800        | mg/kg      | 1.03 U      | 1.08 U     | 0.864 U    | 1.19 U    | 0.256 J   |
| cis-1,3-Dichloropropene     | 8.2         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| trans-1,2-Dichloroethene    | 23000       | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| trans-1,3-Dichloropropene   | 8.2         | mg/kg      | 0.343 U     | 0.359 U    | 0.288 U    | 0.397 U   | 0.419 U   |
| <b>Metals</b>               |             |            |             |            |            |           |           |
| Antimony                    | 470.0       | mg/kg      | 0.63 J-     | 0.49 UJ    | 5.6 J-     | 1.9 J-    | 3 J       |
| Arsenic                     | 3.0         | mg/kg      | 23.7        | 21.2       | 10.7       | 10.2      | 12        |
| Barium                      | 220,000.0   | mg/kg      | 68.1 J      | 34         | 30.3 J     | 59.9 J    | 76.3      |
| Beryllium                   | 2,300.0     | mg/kg      | 0.14 B      | 0.11 B     | 0.071 B    | 0.15 B    | 0.097 B   |
| Cadmium                     | 980.0       | mg/kg      | 0.78 J      | 2.4 J      | 0.13 B     | 0.58 J    | 0.97 J    |
| Chromium                    | 120,000.0   | mg/kg      | 538         | 1040       | 232        | 203       | 261       |
| Cobalt                      | 350.0       | mg/kg      | 18.3 J-     | 18.6       | 12.5 J-    | 9.9 J-    | 11.8      |
| Copper                      | 47,000.0    | mg/kg      | 281         | 190 J      | 140        | 171       | 187 J     |
| Lead                        | 800.0       | mg/kg      | 135 J-      | 60.6 J     | 51.4 J-    | 163 J-    | 107 J     |
| Nickel                      | 22,000.0    | mg/kg      | 268 J       | 504 J      | 163 J      | 71.3 J    | 143 J     |
| Selenium                    | 5,800.0     | mg/kg      | 0.71 J      | 2.2 J      | 0.74       | 1.2       | 1.5 J     |
| Silver                      | 5,800.0     | mg/kg      | 4.9         | 7.4        | 2.6        | 1.6       | 4.9       |
| Thallium                    | 12.0        | mg/kg      | 2 U         | 1.6 U      | 1.8 U      | 2.1 U     | 2.3 U     |
| Tin                         | 700,000.0   | mg/kg      | 240 J       | 289        | 66.2 J     | 172 J     | 231       |
| Vanadium                    | 5,800.0     | mg/kg      | 115 J       | 36.7       | 26.6 J     | 231 J     | 155       |
| Zinc                        | 350,000.0   | mg/kg      | 553 J       | 1060       | 293 J      | 370 J     | 516       |
| Chromium, Hexavalent        | 6.3         | mg/kg      | 1.4 U       | 1.5 UJ     | 1.3 U      | 1.6 U     | 1.4 UJ    |
| Mercury                     | 350.0       | mg/kg      | 0.39 J-     | 0.09 J     | 0.1 J-     | 0.13 J-   | 0.2       |
| <b>PCB</b>                  |             |            |             |            |            |           |           |
| PCB-1016 (Aroclor 1016)     | 27          | mg/kg      |             |            |            | 1.7 U     | 0.653 U   |
| PCB-1221 (Aroclor 1221)     | 0.72        | mg/kg      |             |            |            | 1.7 U     | 0.653 U   |
| PCB-1232 (Aroclor 1232)     | 0.72        | mg/kg      |             |            |            | 1.7 U     | 0.653 U   |
| PCB-1242 (Aroclor 1242)     | 0.97        | mg/kg      |             |            |            | 1.7 U     | 0.653 U   |
| PCB-1248 (Aroclor 1248)     | 0.94        | mg/kg      |             |            |            | 1.7 U     | 0.653 U   |
| PCB-1254 (Aroclor 1254)     | 0.97        | mg/kg      |             |            |            | 0.614 J   | 0.653 U   |
| <b>Cyanide</b>              |             |            |             |            |            |           |           |
| Cyanide                     | 150         | mg/kg      |             |            |            | 4.8 J-    | 1.9       |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification        | Transect 3  |            |             |            |            |           |           |
|------------------------------|-------------|------------|-------------|------------|------------|-----------|-----------|
|                              | TM-SD-11    | TM-SD-12   | TM-SD-13    | TM-SD-14   | TM-SD-14   | TM-SD-15  | TM-SD-15  |
|                              | 4/15/2015   | 8/12/2015  | 4/16/2015   | 4/16/2015  | 8/12/2015  | 4/16/2015 | 8/12/2015 |
|                              | Discrete    | Discrete   | Discrete    | Discrete   | Discrete   | Composite | Composite |
| Sample Location and Depth    | South 0-12" | South 3-4' | North 0-12" | North 4-5' | North 3-4' | 0-12"     | 3-4'      |
| Compound                     | PAL         | Units      |             |            |            |           |           |
| <b>SVOC</b>                  |             |            |             |            |            |           |           |
| 1,2,4-Trichlorobenzene       | 110         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 1,2-Dichlorobenzene          | 9300        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 1,3-Dichlorobenzene          |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 1,4-Dichlorobenzene          | 11          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2,4,5-Trichlorophenol        | 82000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2,4,6-Trichlorophenol        | 210         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2,4-Dichlorophenol           | 2500        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2,4-Dimethylphenol           | 16000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2,4-Dinitrophenol            | 1600        | mg/kg      |             |            |            | 125 RR    | 113 RR    |
| 2,4-Dinitrotoluene           | 7.4         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2,6-Dinitrotoluene           | 1.5         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2-Chloronaphthalene          | 60000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2-Chlorophenol               | 5800        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2-Methylnaphthalene          | 3000        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2-Methylphenol(o-Cresol)     | 41000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 2-Nitrophenol                |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 3&4-Methylphenol(m&p Cresol) | 41000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 3,3'-Dichlorobenzidine       | 5.1         | mg/kg      |             |            |            | 125 RR    | 113 RR    |
| 3,3'-Dimethylbenzidine       | 0.21        | mg/kg      |             |            |            | 250 RR    | 227 RR    |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg      |             |            |            | 49.9 RR   | 45.4 RR   |
| 4-Bromophenylphenyl ether    |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 4-Chloro-3-methylphenol      | 82000       | mg/kg      |             |            |            | 49.9 RR   | 45.4 RR   |
| 4-Chlorophenylphenyl ether   |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| 4-Nitrophenol                |             | mg/kg      |             |            |            | 125 RR    | 113 RR    |
| Acenaphthene                 | 45000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Acenaphthylene               | 45000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Anthracene                   | 230000      | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Benzo(a)anthracene           | 21          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Benzo(a)pyrene               | 2.1         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Benzo(b)fluoranthene         | 21          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Benzo(g,h,i)perylene         |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Benzo(k)fluoranthene         | 210         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Butylbenzylphthalate         | 1200        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Di-n-butylphthalate          | 82000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Di-n-octylphthalate          | 8200        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Dibenz(a,h)anthracene        | 2.1         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Diethylphthalate             | 660000      | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Dimethylphthalate            |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Fluoranthene                 | 30000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Fluorene                     | 30000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Hexachloro-1,3-butadiene     | 5.3         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Hexachlorobenzene            | 0.96        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Hexachlorocyclopentadiene    | 7.5         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Hexachloroethane             | 8           | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Indeno(1,2,3-cd)pyrene       | 21          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Isophorone                   | 2400        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Naphthalene                  | 17          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Nitrobenzene                 | 22          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Pentachloroethane            | 36          | mg/kg      |             |            |            | 49.9 RR   | 45.4 RR   |
| Pentachlorophenol            | 4           | mg/kg      |             |            |            | 125 RR    | 113 RR    |
| Phenanthrene                 |             | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Phenol                       | 250000      | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Pyrene                       | 23000       | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| Pyridine                     | 1200        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| bis(2-Chloroethyl) ether     | 1           | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| bis(2-Chloroisopropyl) ether | 22          | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg      |             |            |            | 25 RR     | 22.7 RR   |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 4  |            |             |            |           |           |
|--|-----------|-------|-------------|------------|-------------|------------|-----------|-----------|
|  |           |       | TM-SD-16    | TM-SD-17   | TM-SD-18    | TM-SD-19   | TM-SD-20  | TM-SD-20  |
|  |           |       | 4/16/2015   | 8/12/2015  | 4/16/2015   | 8/12/2015  | 4/16/2015 | 8/12/2015 |
|  |           |       | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite |
| PAL  |           |       | South 0-12" | South 5-6' | North 0-12" | North 2-3' | 0-12"     | 2-6'      |
| Compound   | PAL       | Units |             |            |             |            |           |           |
| <b>VOC</b>   |           |       |             |            |             |            |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.647 U     | 0.628 U    | 0.614 U     | 0.842 U    |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.647 U     | 0.628 U    | 0.614 U     | 0.842 U    |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.647 U     | 0.628 U    | 0.614 U     | 0.842 U    |           |           |
| Acetone  | 670000    | mg/kg | 1.03        | 0.628 U    | 0.529 J     | 0.842 U    |           |           |
| Benzene  | 5.1       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Bromoform  | 86        | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Chloroethane   | 57000     | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Chloroform   | 1.4       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Toluene  | 47000     | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Trichloroethene  | 6         | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| Xylene (Total)   | 2800      | mg/kg | 0.971 U     | 0.943 U    | 0.921 U     | 1.26 U     |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.324 U     | 0.314 U    | 0.307 U     | 0.421 U    |           |           |
| <b>Metals</b>  |           |       |             |            |             |            |           |           |
| Antimony   | 470.0     | mg/kg | 5.2 J-      | 1.7 J      | 11.2 J-     | 0.77 UJ    |           |           |
| Arsenic  | 3.0       | mg/kg | 6.5         | 35         | 14          | 23.1       |           |           |
| Barium   | 220,000.0 | mg/kg | 30.5 J      | 47.1       | 48.9 J      | 46.5       |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.12 B      | 0.16 B     | 0.12 B      | 0.056 B    |           |           |
| Cadmium  | 980.0     | mg/kg | 0.37 J      | 1.2 J      | 0.32 U      | 1.2 J      |           |           |
| Chromium   | 120,000.0 | mg/kg | 179         | 251        | 317         | 207        |           |           |
| Cobalt   | 350.0     | mg/kg | 7.6 J-      | 21.5       | 16.3 J-     | 23.3       |           |           |
| Copper   | 47,000.0  | mg/kg | 94.5        | 268 J      | 199         | 293 J      |           |           |
| Lead   | 800.0     | mg/kg | 38.3 J-     | 81.9 J     | 51.3 J-     | 121 J      |           |           |
| Nickel   | 22,000.0  | mg/kg | 95.4 J      | 156 J      | 163 J       | 161 J      |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.2         | 1.4 J      | 0.98        | 1.7 J      |           |           |
| Silver   | 5,800.0   | mg/kg | 2.1         | 9.2        | 2.7         | 8.3        |           |           |
| Thallium   | 12.0      | mg/kg | 2.1 U       | 2.2 U      | 2.2 U       | 2.6 U      |           |           |
| Tin  | 700,000.0 | mg/kg | 120 J       | 329        | 166 J       | 208        |           |           |
| Vanadium   | 5,800.0   | mg/kg | 32.8 J      | 41.6       | 40.2 J      | 70.2       |           |           |
| Zinc   | 350,000.0 | mg/kg | 272 J       | 326        | 546 J       | 212        |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.4 U       | 1.6 UJ     | 1.5 U       | 1.9 UJ     |           |           |
| Mercury  | 350.0     | mg/kg | 0.14 J-     | 0.41       | 0.041 J-    | 0.28       |           |           |
| <b>PCB</b>   |           |       |             |            |             |            |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |            |             | 1.55 U     | 1.07 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |            |             | 1.55 U     | 1.07 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |            |             | 1.55 U     | 1.07 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |            |             | 1.55 U     | 3.3       |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |            |             | 1.55 U     | 1.07 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |            |             | 1.55 U     | 1.48      |           |
| <b>Cyanide</b>   |           |       |             |            |             |            |           |           |
| Cyanide  | 150       | mg/kg |             |            |             | 2.3 J-     | 4.9       |           |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 4 |           |             |            |             |            |         |         |
|--|------------|-----------|-------------|------------|-------------|------------|---------|---------|
|  | TM-SD-16   | TM-SD-17  | TM-SD-18    | TM-SD-19   | TM-SD-20    | TM-SD-20   |         |         |
|  | 4/16/2015  | 8/12/2015 | 4/16/2015   | 8/12/2015  | 4/16/2015   | 8/12/2015  |         |         |
|  | Discrete   | Discrete  | Discrete    | Discrete   | Composite   | Composite  |         |         |
| Compound   | PAL        | Units     | South 0-12" | South 5-6' | North 0-12" | North 2-3' | 0-12"   | 2-6'    |
| <i>SVOC</i>  |            |           |             |            |             |            |         |         |
| 1,2,4-Trichlorobenzene   | 110        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 1,2-Dichlorobenzene  | 9300       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 1,3-Dichlorobenzene  |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 1,4-Dichlorobenzene  | 11         | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2,4,5-Trichlorophenol  | 82000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2,4,6-Trichlorophenol  | 210        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2,4-Dichlorophenol   | 2500       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2,4-Dimethylphenol   | 16000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2,4-Dinitrophenol  | 1600       | mg/kg     |             |            |             |            | 108 RR  | 36 U    |
| 2,4-Dinitrotoluene   | 7.4        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 UJ |
| 2,6-Dinitrotoluene   | 1.5        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2-Chloronaphthalene  | 60000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2-Chlorophenol   | 5800       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2-Methylnaphthalene  | 3000       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2-Methylphenol(o-Cresol)   | 41000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 2-Nitrophenol  |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 3&4-Methylphenol(m&p Cresol)   | 41000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 3,3'-Dichlorobenzidine   | 5.1        | mg/kg     |             |            |             |            | 108 RR  | 1.84 RR |
| 3,3'-Dimethylbenzidine   | 0.21       | mg/kg     |             |            |             |            | 216 RR  | 71.9 RR |
| 4,6-Dinitro-2-methylphenol   | 66         | mg/kg     |             |            |             |            | 43.3 RR | 14.4 RR |
| 4-Bromophenylphenyl ether  |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 4-Chloro-3-methylphenol  | 82000      | mg/kg     |             |            |             |            | 43.3 RR | 14.4 RR |
| 4-Chlorophenylphenyl ether   |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| 4-Nitrophenol  |            | mg/kg     |             |            |             |            | 108 RR  | 6.55 RR |
| Acenaphthene   | 45000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Acenaphthylene   | 45000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Anthracene   | 230000     | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Benzo(a)anthracene   | 21         | mg/kg     |             |            |             |            | 21.6 RR | 2.57 RR |
| Benzo(a)pyrene   | 2.1        | mg/kg     |             |            |             |            | 21.6 RR | 2.05 RR |
| Benzo(b)fluoranthene   | 21         | mg/kg     |             |            |             |            | 21.6 RR | 2.26 RR |
| Benzo(g,h,i)perylene   |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Benzo(k)fluoranthene   | 210        | mg/kg     |             |            |             |            | 21.6 RR | 2.46 RR |
| Butylbenzylphthalate   | 1200       | mg/kg     |             |            |             |            | 21.6 RR | 1.88 RR |
| Di-n-butylphthalate  | 82000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Di-n-octylphthalate  | 8200       | mg/kg     |             |            |             |            | 21.6 RR | 4.6 RR  |
| Dibenz(a,h)anthracene  | 2.1        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Diethylphthalate   | 660000     | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Dimethylphthalate  |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Fluoranthene   | 30000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Fluorene   | 30000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Hexachloro-1,3-butadiene   | 5.3        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Hexachlorobenzene  | 0.96       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Hexachlorocyclopentadiene  | 7.5        | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Hexachloroethane   | 8          | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Indeno(1,2,3-cd)pyrene   | 21         | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Isophorone   | 2400       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Naphthalene  | 17         | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Nitrobenzene   | 22         | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Pentachloroethane  | 36         | mg/kg     |             |            |             |            | 43.3 RR | 14.4 RR |
| Pentachlorophenol  | 4          | mg/kg     |             |            |             |            | 108 RR  | 36 RR   |
| Phenanthrene   |            | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Phenol   | 250000     | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Pyrene   | 23000      | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| Pyridine   | 1200       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| bis(2-Chloroethoxy)methane   | 2500       | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| bis(2-Chloroethyl) ether   | 1          | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| bis(2-Chloroisopropyl) ether   | 22         | mg/kg     |             |            |             |            | 21.6 RR | 7.19 RR |
| bis(2-Ethylhexyl)phthalate   | 160        | mg/kg     |             |            |             |            | 21.6 RR | 3.16 RR |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification       | Transect 5  |            |            |             |                |           |           |
|-----------------------------|-------------|------------|------------|-------------|----------------|-----------|-----------|
|                             | TM-SD-21    | TM-SD-22   | TM-SD-22   | TM-SD-23    | TM-SD-24       | TM-SD-25  | TM-SD-25  |
|                             | 4/16/2015   | 4/16/2015  | 8/12/2015  | 4/16/2015   | 8/12/2015      | 4/16/2015 | 8/12/2015 |
|                             | Discrete    | Discrete   | Discrete   | Discrete    | Discrete       | Composite | Composite |
| Sample Date                 |             |            |            |             |                |           |           |
| Sample Type                 |             |            |            |             |                |           |           |
| Sample Location and Depth   | South 0-12" | South 4-5' | South 3-4' | North 0-12" | North 3.5-4.5' | 0-12"     | 3-4.5'    |
| Compound                    | PAL         | Units      |            |             |                |           |           |
| <b>VOC</b>                  |             |            |            |             |                |           |           |
| 1,1,1,2-Tetrachloroethane   | 8.8         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,1,1-Trichloroethane       | 36000       | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,1,2,2-Tetrachloroethane   | 2.7         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,1,2-Trichloroethane       | 5           | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,1-Dichloroethane          | 16          | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,1-Dichloroethene          | 1000        | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,2-Dichloroethane          | 2           | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 1,2-Dichloropropane         | 4.4         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| 2-Butanone (MEK)            | 190000      | mg/kg      | 0.486 U    | 0.192 J     | 0.244 J        | 0.712 U   | 0.662 U   |
| 2-Hexanone                  | 1300        | mg/kg      | 0.486 U    | 0.453 U     | 0.476 U        | 0.712 U   | 0.662 U   |
| 4-Methyl-2-pentanone (MIBK) | 56000       | mg/kg      | 0.486 U    | 0.453 U     | 0.476 U        | 0.712 U   | 0.662 U   |
| Acetone                     | 670000      | mg/kg      | 0.298 J    | 0.515       | 0.476 U        | 0.712 U   | 0.662 U   |
| Benzene                     | 5.1         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Bromoform                   | 86          | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Carbon disulfide            | 3500        | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Carbon tetrachloride        | 2.9         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Chlorobenzene               | 1300        | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Chloroethane                | 57000       | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Chloroform                  | 1.4         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Ethylbenzene                | 25          | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Methylene Chloride          | 1000        | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Tetrachloroethene           | 100         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Toluene                     | 47000       | mg/kg      | 0.243 U    | 0.226 U     | 8.84           | 5.93      | 0.331 U   |
| Trichloroethene             | 6           | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Vinyl chloride              | 1.7         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| Xylene (Total)              | 2800        | mg/kg      | 0.729 U    | 0.679 U     | 0.157 J        | 1.07 U    | 0.994 U   |
| cis-1,3-Dichloropropene     | 8.2         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| trans-1,2-Dichloroethene    | 23000       | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| trans-1,3-Dichloropropene   | 8.2         | mg/kg      | 0.243 U    | 0.226 U     | 0.238 U        | 0.356 U   | 0.331 U   |
| <b>Metals</b>               |             |            |            |             |                |           |           |
| Antimony                    | 470.0       | mg/kg      | 4.1 J-     | 3.8 J-      | 0.55 UJ        | 3 J-      | 0.81 UJ   |
| Arsenic                     | 3.0         | mg/kg      | 13.1       | 10.7        | 22.3           | 12.2      | 31.5      |
| Barium                      | 220,000.0   | mg/kg      | 133 J      | 55.2 J      | 61             | 59.5 J    | 15.9      |
| Beryllium                   | 2,300.0     | mg/kg      | 0.23 J     | 0.14 B      | 0.27           | 0.052 B   | 0.27 U    |
| Cadmium                     | 980.0       | mg/kg      | 0.35 U     | 0.26 U      | 0.59 J         | 0.29 U    | 0.8 J     |
| Chromium                    | 120,000.0   | mg/kg      | 685        | 399         | 411            | 236       | 173       |
| Cobalt                      | 350.0       | mg/kg      | 14.7 J-    | 15.8 J-     | 17.5           | 12.3 J-   | 30.9      |
| Copper                      | 47,000.0    | mg/kg      | 187        | 157         | 201 J          | 152       | 271 J     |
| Lead                        | 800.0       | mg/kg      | 78.7 J-    | 48.6 J-     | 57.7 J         | 68.5 J-   | 53.7 J    |
| Nickel                      | 22,000.0    | mg/kg      | 131 J      | 128 J       | 153 J          | 97.7 J    | 168 J     |
| Selenium                    | 5,800.0     | mg/kg      | 1.6        | 1.4         | 1.6 J          | 0.99      | 2.1 J     |
| Silver                      | 5,800.0     | mg/kg      | 5.1        | 2.9         | 7.6            | 5.3       | 8.4       |
| Thallium                    | 12.0        | mg/kg      | 2.3 U      | 1.8 U       | 1.8 U          | 1.9 U     | 2.7 U     |
| Tin                         | 700,000.0   | mg/kg      | 192 J      | 180 J       | 100            | 52.5 J    | 48.2      |
| Vanadium                    | 5,800.0     | mg/kg      | 42.3 J     | 37.1 J      | 32.7           | 8.2 J     | 20.7      |
| Zinc                        | 350,000.0   | mg/kg      | 331 J      | 379 J       | 157            | 50.8 J    | 67.2      |
| Chromium, Hexavalent        | 6.3         | mg/kg      | 1.4 U      | 1.3 U       | 1.3 UJ         | 1.3 U     | 1.5 UJ    |
| Mercury                     | 350.0       | mg/kg      | 0.42 J-    | 0.56 J-     | 0.33           | 0.23 J-   | 0.48      |
| <b>PCB</b>                  |             |            |            |             |                |           |           |
| PCB-1016 (Aroclor 1016)     | 27          | mg/kg      |            |             |                |           | 1.65 U    |
| PCB-1221 (Aroclor 1221)     | 0.72        | mg/kg      |            |             |                |           | 1.65 U    |
| PCB-1232 (Aroclor 1232)     | 0.72        | mg/kg      |            |             |                |           | 1.65 U    |
| PCB-1242 (Aroclor 1242)     | 0.97        | mg/kg      |            |             |                |           | 1.65 U    |
| PCB-1248 (Aroclor 1248)     | 0.94        | mg/kg      |            |             |                |           | 1.65 U    |
| PCB-1254 (Aroclor 1254)     | 0.97        | mg/kg      |            |             |                |           | 1.65 U    |
| <b>Cyanide</b>              |             |            |            |             |                |           |           |
| Cyanide                     | 150         | mg/kg      |            |             |                |           | 1.4 J-    |
|                             |             |            |            |             |                |           | 1.9       |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification        | Transect 5  |            |            |             |                |           |           |
|------------------------------|-------------|------------|------------|-------------|----------------|-----------|-----------|
|                              | TM-SD-21    | TM-SD-22   | TM-SD-22   | TM-SD-23    | TM-SD-24       | TM-SD-25  | TM-SD-25  |
|                              | 4/16/2015   | 4/16/2015  | 8/12/2015  | 4/16/2015   | 8/12/2015      | 4/16/2015 | 8/12/2015 |
|                              | Discrete    | Discrete   | Discrete   | Discrete    | Discrete       | Composite | Composite |
| Sample Location and Depth    | South 0-12" | South 4-5' | South 3-4' | North 0-12" | North 3.5-4.5' | 0-12"     | 3-4.5'    |
| Compound                     | PAL         | Units      |            |             |                |           |           |
| <b>SVOC</b>                  |             |            |            |             |                |           |           |
| 1,2,4-Trichlorobenzene       | 110         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 1,2-Dichlorobenzene          | 9300        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 1,3-Dichlorobenzene          |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 1,4-Dichlorobenzene          | 11          | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2,4,5-Trichlorophenol        | 82000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2,4,6-Trichlorophenol        | 210         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2,4-Dichlorophenol           | 2500        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2,4-Dimethylphenol           | 16000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2,4-Dinitrophenol            | 1600        | mg/kg      |            |             |                | 116 RR    | 24.7 RR   |
| 2,4-Dinitrotoluene           | 7.4         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2,6-Dinitrotoluene           | 1.5         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2-Chloronaphthalene          | 60000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2-Chlorophenol               | 5800        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2-Methylnaphthalene          | 3000        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2-Methylphenol(o-Cresol)     | 41000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 2-Nitrophenol                |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 3&4-Methylphenol(m&p Cresol) | 41000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 3,3'-Dichlorobenzidine       | 5.1         | mg/kg      |            |             |                | 116 RR    | 24.7 RR   |
| 3,3'-Dimethylbenzidine       | 0.21        | mg/kg      |            |             |                | 23.2 RR   | 49.4 RR   |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg      |            |             |                | 46.5 RR   | 9.88 RR   |
| 4-Bromophenylphenyl ether    |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 4-Chloro-3-methylphenol      | 82000       | mg/kg      |            |             |                | 46.5 RR   | 9.88 RR   |
| 4-Chlorophenylphenyl ether   |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| 4-Nitrophenol                |             | mg/kg      |            |             |                | 116 RR    | 24.7 RR   |
| Acenaphthene                 | 45000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Acenaphthylene               | 45000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Anthracene                   | 230000      | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Benzo(a)anthracene           | 21          | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Benzo(a)pyrene               | 2.1         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Benzo(b)fluoranthene         | 21          | mg/kg      |            |             |                | 23.2 RR   | 1.04 RR   |
| Benzo(g,h,i)perylene         |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Benzo(k)fluoranthene         | 210         | mg/kg      |            |             |                | 23.2 RR   | 1.02 RR   |
| Butylbenzylphthalate         | 1200        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Di-n-butylphthalate          | 82000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Di-n-octylphthalate          | 8200        | mg/kg      |            |             |                | 23.2 RR   | 1.17 RR   |
| Dibenz(a,h)anthracene        | 2.1         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Diethylphthalate             | 660000      | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Dimethylphthalate            |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Fluoranthene                 | 30000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Fluorene                     | 30000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Hexachloro-1,3-butadiene     | 5.3         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Hexachlorobenzene            | 0.96        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Hexachlorocyclopentadiene    | 7.5         | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Hexachloroethane             | 8           | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Indeno(1,2,3-cd)pyrene       | 21          | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Isophorone                   | 2400        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Naphthalene                  | 17          | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Nitrobenzene                 | 22          | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Pentachloroethane            | 36          | mg/kg      |            |             |                | 46.5 RR   | 9.88 RR   |
| Pentachlorophenol            | 4           | mg/kg      |            |             |                | 116 RR    | 24.7 RR   |
| Phenanthrene                 |             | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Phenol                       | 250000      | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Pyrene                       | 23000       | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| Pyridine                     | 1200        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| bis(2-Chloroethyl) ether     | 1           | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| bis(2-Chloroisopropyl) ether | 22          | mg/kg      |            |             |                | 23.2 RR   | 4.94 RR   |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg      |            |             |                | 6.42 RR   | 4.94 RR   |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.



**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 6  |            |             |            |           |           |
|--|-----------|-------|-------------|------------|-------------|------------|-----------|-----------|
|  |           |       | TM-SD-27    | TM-SD-28   | TM-SD-29    | TM-SD-30   | TM-SD-31  | TM-SD-31  |
|  |           |       | 4/17/2015   | 8/12/2015  | 4/20/2015   | 8/12/2015  | 4/20/2015 | 8/12/2015 |
|  |           |       | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite |
| Sample Location and Depth  |           |       | South 0-12" | South 3-4' | North 0-12" | North 2-3' | 0-12"     | 2-4'      |
| Compound   | PAL       | Units |             |            |             |            |           |           |
| <b>VOC</b>   |           |       |             |            |             |            |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.808 U     | 1.06 U     | 1.04 U      | 0.908 U    |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.808 UJ    | 1.06 U     | 1.04 U      | 0.908 U    |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.808 U     | 1.06 U     | 1.04 U      | 0.908 U    |           |           |
| Acetone  | 670000    | mg/kg | 0.808 UJ    | 1.06 U     | 1.04 U      | 0.908 U    |           |           |
| Benzene  | 5.1       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Bromoform  | 86        | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.404 U     | 0.53 UJ    | 0.521 U     | 0.454 UJ   |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Chloroethane   | 57000     | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Chloroform   | 1.4       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.404 UJ    | 0.53 U     | 0.521 UJ    | 0.454 U    |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Toluene  | 47000     | mg/kg | 73.1        | 8.01       | 0.521 U     | 0.454 U    |           |           |
| Trichloroethene  | 6         | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| Xylene (Total)   | 2800      | mg/kg | 0.264 J     | 1.59 U     | 1.56 U      | 1.36 U     |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.404 U     | 0.53 U     | 0.521 U     | 0.454 U    |           |           |
| <b>Metals</b>  |           |       |             |            |             |            |           |           |
| Antimony   | 470.0     | mg/kg | 1.1 UJ      | 1.1 UJ     | 0.89 UJ     | 0.52 UJ    |           |           |
| Arsenic  | 3.0       | mg/kg | 39.2        | 60.2       | 5.8         | 17.7       |           |           |
| Barium   | 220,000.0 | mg/kg | 78          | 65.9       | 99          | 58.7       |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.13 B      | 0.15 B     | 0.35        | 0.12 B     |           |           |
| Cadmium  | 980.0     | mg/kg | 1.2         | 1.5 J      | 0.74        | 0.96 J     |           |           |
| Chromium   | 120,000.0 | mg/kg | 713         | 569        | 524         | 303        |           |           |
| Cobalt   | 350.0     | mg/kg | 22.3        | 35.1       | 15.4        | 13.4       |           |           |
| Copper   | 47,000.0  | mg/kg | 457         | 744 J      | 234         | 570 J      |           |           |
| Lead   | 800.0     | mg/kg | 160 J+      | 166 J      | 90.1 J+     | 75 J       |           |           |
| Nickel   | 22,000.0  | mg/kg | 119         | 142 J      | 147         | 114 J      |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.5         | 2.3 J      | 6.8         | 1.8 J      |           |           |
| Silver   | 5,800.0   | mg/kg | 13.7        | 15.4       | 9.2         | 5.4        |           |           |
| Thallium   | 12.0      | mg/kg | 1.9 U       | 3.6 U      | 3 U         | 1.7 U      |           |           |
| Tin  | 700,000.0 | mg/kg | 2500 J+     | 3550       | 265 J+      | 58.5       |           |           |
| Vanadium   | 5,800.0   | mg/kg | 54.9        | 85.1       | 448         | 45.9       |           |           |
| Zinc   | 350,000.0 | mg/kg | 454         | 345        | 1030        | 133        |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.6 R       | 1.8 UJ     | 2.5 R       | 1.3 UJ     |           |           |
| Mercury  | 350.0     | mg/kg | 1.1         | 0.83       | 0.56        | 0.2        |           |           |
| <b>PCB</b>   |           |       |             |            |             |            |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |            |             | 4.9 U      | 17.6 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |            |             | 4.9 U      | 17.6 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |            |             | 4.9 U      | 17.6 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |            |             | 4.9 U      | 233       |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |            |             | 4.9 U      | 17.6 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |            |             | 4.9 U      | 17.6 U    |           |
| <b>Cyanide</b>   |           |       |             |            |             |            |           |           |
| Cyanide  | 150       | mg/kg |             |            |             | 0.88 J-    | 4.5       |           |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 6 |           |             |            |             |            |          |         |
|--|------------|-----------|-------------|------------|-------------|------------|----------|---------|
|  | TM-SD-27   | TM-SD-28  | TM-SD-29    | TM-SD-30   | TM-SD-31    | TM-SD-31   |          |         |
|  | 4/17/2015  | 8/12/2015 | 4/20/2015   | 8/12/2015  | 4/20/2015   | 8/12/2015  |          |         |
|  | Discrete   | Discrete  | Discrete    | Discrete   | Composite   | Composite  |          |         |
| Compound   | PAL        | Units     | South 0-12" | South 3-4' | North 0-12" | North 2-3' | 0-12"    | 2-4'    |
| <b>SVOC</b>  |            |           |             |            |             |            |          |         |
| 1,2,4-Trichlorobenzene   | 110        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 1,2-Dichlorobenzene  | 9300       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 1,3-Dichlorobenzene  |            | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 1,4-Dichlorobenzene  | 11         | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2,4,5-Trichlorophenol  | 82000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2,4,6-Trichlorophenol  | 210        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2,4-Dichlorophenol   | 2500       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2,4-Dimethylphenol   | 16000      | mg/kg     |             |            |             |            | 2040 RR  | 4.26 RR |
| 2,4-Dinitrophenol  | 1600       | mg/kg     |             |            |             |            | 10200 RR | 29.3 RR |
| 2,4-Dinitrotoluene   | 7.4        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2,6-Dinitrotoluene   | 1.5        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2-Chloronaphthalene  | 60000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2-Chlorophenol   | 5800       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2-Methylnaphthalene  | 3000       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2-Methylphenol(o-Cresol)   | 41000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 2-Nitrophenol  |            | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 3&4-Methylphenol(m&p Cresol)   | 41000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 3,3'-Dichlorobenzidine   | 5.1        | mg/kg     |             |            |             |            | 10200 RR | 29.3 RR |
| 3,3'-Dimethylbenzidine   | 0.21       | mg/kg     |             |            |             |            | 20400 RR | 58.7 RR |
| 4,6-Dinitro-2-methylphenol   | 66         | mg/kg     |             |            |             |            | 4090 RR  | 11.7 RR |
| 4-Bromophenylphenyl ether  |            | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 4-Chloro-3-methylphenol  | 82000      | mg/kg     |             |            |             |            | 4090 RR  | 11.7 RR |
| 4-Chlorophenylphenyl ether   |            | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| 4-Nitrophenol  |            | mg/kg     |             |            |             |            | 10200 RR | 29.3 RR |
| Acenaphthene   | 45000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Acenaphthylene   | 45000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Anthracene   | 230000     | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Benzo(a)anthracene   | 21         | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Benzo(a)pyrene   | 2.1        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Benzo(b)fluoranthene   | 21         | mg/kg     |             |            |             |            | 2040 RR  | 1.14 RR |
| Benzo(g,h,i)perylene   |            | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Benzo(k)fluoranthene   | 210        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Butylbenzylphthalate   | 1200       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Di-n-butylphthalate  | 82000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Di-n-octylphthalate  | 8200       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Dibenz(a,h)anthracene  | 2.1        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Diethylphthalate   | 660000     | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Dimethylphthalate  |            | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Fluoranthene   | 30000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Fluorene   | 30000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Hexachloro-1,3-butadiene   | 5.3        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Hexachlorobenzene  | 0.96       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Hexachlorocyclopentadiene  | 7.5        | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Hexachloroethane   | 8          | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Indeno(1,2,3-cd)pyrene   | 21         | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Isophorone   | 2400       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Naphthalene  | 17         | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Nitrobenzene   | 22         | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Pentachloroethane  | 36         | mg/kg     |             |            |             |            | 4090 RR  | 11.7 RR |
| Pentachlorophenol  | 4          | mg/kg     |             |            |             |            | 10200 RR | 29.3 RR |
| Phenanthrene   |            | mg/kg     |             |            |             |            | 2040 RR  | 1.75 RR |
| Phenol   | 250000     | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Pyrene   | 23000      | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| Pyridine   | 1200       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| bis(2-Chloroethoxy)methane   | 2500       | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| bis(2-Chloroethyl) ether   | 1          | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| bis(2-Chloroisopropyl) ether   | 22         | mg/kg     |             |            |             |            | 2040 RR  | 5.87 RR |
| bis(2-Ethylhexyl)phthalate   | 160        | mg/kg     |             |            |             |            | 2040 RR  | 1.75 RR |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 7  |             |             |                |           |           |
|--|-----------|-------|-------------|-------------|-------------|----------------|-----------|-----------|
|  |           |       | TM-SD-32    | TM-SD-33    | TM-SD-34    | TM-SD-35       | TM-SD-36  | TM-SD-36  |
|  |           |       | 4/17/2015   | 8/13/2015   | 4/20/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 |
|  |           |       | Discrete    | Discrete    | Discrete    | Discrete       | Composite | Composite |
| Compound   | PAL       | Units | South 0-12" | No Recovery | North 0-12" | North 5.5-6.5" | 0-12"     | 5.5-6.5"  |
| <b>VOC</b>   |           |       |             |             |             |                |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.408 UJ    |             | 0.427 UJ    | 0.383 U        |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.816 U     |             | 0.853 U     | 0.486 J        |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.816 U     |             | 0.853 U     | 0.765 U        |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.816 U     |             | 0.853 U     | 0.765 U        |           |           |
| Acetone  | 670000    | mg/kg | 0.816 U     |             | 0.853 U     | 0.378 J        |           |           |
| Benzene  | 5.1       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Bromoform  | 86        | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Chloroethane   | 57000     | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Chloroform   | 1.4       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.408 U     |             | 0.427 U     | 0.16 J         |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.408 UJ    |             | 0.427 UJ    | 0.383 U        |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Toluene  | 47000     | mg/kg | 0.204 J     |             | 0.427 U     | 15             |           |           |
| Trichloroethene  | 6         | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| Xylene (Total)   | 2800      | mg/kg | 1.22 U      |             | 1.28 U      | 0.68 J         |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.408 U     |             | 0.427 U     | 0.383 U        |           |           |
| <b>Metals</b>  |           |       |             |             |             |                |           |           |
| Antimony   | 470.0     | mg/kg | 0.81 UJ     |             | 0.63 UJ     | 0.7 B          |           |           |
| Arsenic  | 3.0       | mg/kg | 31.9        |             | 8.6         | 19.9           |           |           |
| Barium   | 220,000.0 | mg/kg | 78.7        |             | 62          | 79.8           |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.26 B      |             | 0.29        | 0.18 B         |           |           |
| Cadmium  | 980.0     | mg/kg | 1.2         |             | 0.31 U      | 3 J            |           |           |
| Chromium   | 120,000.0 | mg/kg | 347         |             | 425         | 333            |           |           |
| Cobalt   | 350.0     | mg/kg | 29.5        |             | 18.1        | 16.2           |           |           |
| Copper   | 47,000.0  | mg/kg | 509         |             | 170         | 586 J          |           |           |
| Lead   | 800.0     | mg/kg | 114 J+      |             | 40.3 J+     | 146 J          |           |           |
| Nickel   | 22,000.0  | mg/kg | 104         |             | 170         | 147 J          |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.1         |             | 1.6         | 3.1 J          |           |           |
| Silver   | 5,800.0   | mg/kg | 9.1         |             | 9.2         | 9.2            |           |           |
| Thallium   | 12.0      | mg/kg | 2.7 U       |             | 2.1 U       | 2.7 U          |           |           |
| Tin  | 700,000.0 | mg/kg | 1740 J+     |             | 98.1 J+     | 144 J          |           |           |
| Vanadium   | 5,800.0   | mg/kg | 102         |             | 49          | 28.6           |           |           |
| Zinc   | 350,000.0 | mg/kg | 559         |             | 315         | 281 J          |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 2 R         |             | 1.8 R       | 1.5 UJ         |           |           |
| Mercury  | 350.0     | mg/kg | 0.32        |             | 0.16 J      | 0.63           |           |           |
| <b>PCB</b>   |           |       |             |             |             |                |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |             |             | 3.24 U         |           | 4.8 U     |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |             |             | 3.24 U         |           | 4.8 U     |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |             |             | 3.24 U         |           | 4.8 U     |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |             |             | 3.24 U         |           | 3.33 J    |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |             |             | 3.24 U         |           | 4.8 U     |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |             |             | 3.24 U         |           | 4.8       |
| <b>Cyanide</b>   |           |       |             |             |             |                |           |           |
| Cyanide  | 150       | mg/kg |             |             |             | 0.44 J-        |           | 4.3       |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 7  |             |             |                |           |           |
|--|-------------|-------------|-------------|----------------|-----------|-----------|
|  | TM-SD-32    | TM-SD-33    | TM-SD-34    | TM-SD-35       | TM-SD-36  | TM-SD-36  |
|  | 4/17/2015   | 8/13/2015   | 4/20/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 |
|  | Discrete    | Discrete    | Discrete    | Discrete       | Composite | Composite |
|  | South 0-12" | No Recovery | North 0-12" | North 5.5-6.5' | 0-12"     | 5.5-6.5'  |
| Compound   | PAL         | Units       |             |                |           |           |
| <b>SVOC</b>  |             |             |             |                |           |           |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 1,2-Dichlorobenzene  | 9300        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 1,3-Dichlorobenzene  |             | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 1,4-Dichlorobenzene  | 11          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2,4,6-Trichlorophenol  | 210         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2,4-Dichlorophenol   | 2500        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2,4-Dimethylphenol   | 16000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2,4-Dinitrophenol  | 1600        | mg/kg       |             |                | 8010 RR   | 164 RR    |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2-Chloronaphthalene  | 60000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2-Chlorophenol   | 5800        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2-Methylnaphthalene  | 3000        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 2-Nitrophenol  |             | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg       |             |                | 8010 RR   | 164 RR    |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg       |             |                | 16000 RR  | 32.9 RR   |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg       |             |                | 3210 RR   | 65.8 RR   |
| 4-Bromophenylphenyl ether  |             | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg       |             |                | 3210 RR   | 65.8 RR   |
| 4-Chlorophenylphenyl ether   |             | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| 4-Nitrophenol  |             | mg/kg       |             |                | 8010 RR   | 164 RR    |
| Acenaphthene   | 45000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Acenaphthylene   | 45000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Anthracene   | 230000      | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Benzo(a)anthracene   | 21          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Benzo(a)pyrene   | 2.1         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Benzo(b)fluoranthene   | 21          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Benzo(g,h,i)perylene   |             | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Benzo(k)fluoranthene   | 210         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Butylbenzylphthalate   | 1200        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Di-n-butylphthalate  | 82000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Di-n-octylphthalate  | 8200        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Diethylphthalate   | 660000      | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Dimethylphthalate  |             | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Fluoranthene   | 30000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Fluorene   | 30000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Hexachlorobenzene  | 0.96        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Hexachloroethane   | 8           | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Isophorone   | 2400        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Naphthalene  | 17          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Nitrobenzene   | 22          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Pentachloroethane  | 36          | mg/kg       |             |                | 3210 RR   | 65.8 RR   |
| Pentachlorophenol  | 4           | mg/kg       |             |                | 8010 RR   | 164 RR    |
| Phenanthrene   |             | mg/kg       |             |                | 1600 RR   | 8.82 RR   |
| Phenol   | 250000      | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Pyrene   | 23000       | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| Pyridine   | 1200        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| bis(2-Chloroethyl) ether   | 1           | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg       |             |                | 1600 RR   | 32.9 RR   |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg       |             |                | 1600 RR   | 32.9 RR   |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 8  |             |             |             |           |             |
|--|-----------|-------|-------------|-------------|-------------|-------------|-----------|-------------|
|  |           |       | TM-SD-37    | TM-SD-38    | TM-SD-39    | TM-SD-40    | TM-SD-41  | TM-SD-41    |
|  |           |       | 4/20/2015   | 8/13/2015   | 4/20/2015   | 8/13/2015   | 4/20/2015 | 8/13/2015   |
|  |           |       | Discrete    | Discrete    | Discrete    | Discrete    | Composite | Composite   |
| Compound   | PAL       | Units | South 0-12" | No Recovery | North 0-12" | No Recovery | 0-12"     | No Recovery |
| <b>VOC</b>   |           |       |             |             |             |             |           |             |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.281 UJ    |             | 0.28 UJ     |             |           |             |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.154 J     |             | 0.559 U     |             |           |             |
| 2-Hexanone   | 1300      | mg/kg | 0.562 U     |             | 0.559 U     |             |           |             |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.562 U     |             | 0.559 U     |             |           |             |
| Acetone  | 670000    | mg/kg | 0.562 U     |             | 0.559 U     |             |           |             |
| Benzene  | 5.1       | mg/kg | 0.281 U     |             | 3.83        |             |           |             |
| Bromoform  | 86        | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Carbon disulfide   | 3500      | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Chlorobenzene  | 1300      | mg/kg | 0.281 U     |             | 6           |             |           |             |
| Chloroethane   | 57000     | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Chloroform   | 1.4       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Ethylbenzene   | 25        | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Methylene Chloride   | 1000      | mg/kg | 0.281 UJ    |             | 0.28 UJ     |             |           |             |
| Tetrachloroethene  | 100       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Toluene  | 47000     | mg/kg | 0.281 U     |             | 0.101 J     |             |           |             |
| Trichloroethene  | 6         | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Vinyl chloride   | 1.7       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| Xylene (Total)   | 2800      | mg/kg | 0.842 U     |             | 0.257 J     |             |           |             |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.281 U     |             | 0.28 U      |             |           |             |
| <b>Metals</b>  |           |       |             |             |             |             |           |             |
| Antimony   | 470.0     | mg/kg | 3.6 J-      |             | 0.83 J-     |             |           |             |
| Arsenic  | 3.0       | mg/kg | 14.5        |             | 15.7        |             |           |             |
| Barium   | 220,000.0 | mg/kg | 51.1        |             | 161         |             |           |             |
| Beryllium  | 2,300.0   | mg/kg | 0.15 B      |             | 0.13 B      |             |           |             |
| Cadmium  | 980.0     | mg/kg | 0.36 U      |             | 1           |             |           |             |
| Chromium   | 120,000.0 | mg/kg | 366         |             | 389         |             |           |             |
| Cobalt   | 350.0     | mg/kg | 15.5        |             | 14.7        |             |           |             |
| Copper   | 47,000.0  | mg/kg | 189         |             | 428         |             |           |             |
| Lead   | 800.0     | mg/kg | 48.6 J+     |             | 200 J+      |             |           |             |
| Nickel   | 22,000.0  | mg/kg | 158         |             | 260         |             |           |             |
| Selenium   | 5,800.0   | mg/kg | 1.8         |             | 2           |             |           |             |
| Silver   | 5,800.0   | mg/kg | 8.8         |             | 7.8         |             |           |             |
| Thallium   | 12.0      | mg/kg | 2.4 U       |             | 2 U         |             |           |             |
| Tin  | 700,000.0 | mg/kg | 434 J+      |             | 92.7 J+     |             |           |             |
| Vanadium   | 5,800.0   | mg/kg | 64.7        |             | 23.3        |             |           |             |
| Zinc   | 350,000.0 | mg/kg | 364         |             | 321         |             |           |             |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.7 R       |             | 1.3 R       |             |           |             |
| Mercury  | 350.0     | mg/kg | 0.23        |             | 0.098 J     |             |           |             |
| <b>PCB</b>   |           |       |             |             |             |             |           |             |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |             |             |             | 3.2 U     |             |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |             |             |             | 3.2 U     |             |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |             |             |             | 3.2 U     |             |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |             |             |             | 3.2 U     |             |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |             |             |             | 3.2 U     |             |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |             |             |             | 3.2 U     |             |
| <b>Cyanide</b>   |           |       |             |             |             |             |           |             |
| Cyanide  | 150       | mg/kg |             |             |             |             | 0.45 J-   |             |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 8 |           |           |           |           |           |
|--|------------|-----------|-----------|-----------|-----------|-----------|
|  | TM-SD-37   | TM-SD-38  | TM-SD-39  | TM-SD-40  | TM-SD-41  | TM-SD-41  |
|  | 4/20/2015  | 8/13/2015 | 4/20/2015 | 8/13/2015 | 4/20/2015 | 8/13/2015 |
|  | Discrete   | Discrete  | Discrete  | Discrete  | Composite | Composite |
| PAL  | Units      |           |           |           |           |           |
| <b>SVOC</b>  |            |           |           |           |           |           |
| 1,2,4-Trichlorobenzene   | 110        | mg/kg     |           |           | 1490 RR   |           |
| 1,2-Dichlorobenzene  | 9300       | mg/kg     |           |           | 1490 RR   |           |
| 1,3-Dichlorobenzene  |            | mg/kg     |           |           | 1490 RR   |           |
| 1,4-Dichlorobenzene  | 11         | mg/kg     |           |           | 1490 RR   |           |
| 2,4,5-Trichlorophenol  | 82000      | mg/kg     |           |           | 1490 RR   |           |
| 2,4,6-Trichlorophenol  | 210        | mg/kg     |           |           | 1490 RR   |           |
| 2,4-Dichlorophenol   | 2500       | mg/kg     |           |           | 1490 RR   |           |
| 2,4-Dimethylphenol   | 16000      | mg/kg     |           |           | 1490 RR   |           |
| 2,4-Dinitrophenol  | 1600       | mg/kg     |           |           | 7440 RR   |           |
| 2,4-Dinitrotoluene   | 7.4        | mg/kg     |           |           | 1490 RR   |           |
| 2,6-Dinitrotoluene   | 1.5        | mg/kg     |           |           | 1490 RR   |           |
| 2-Chloronaphthalene  | 60000      | mg/kg     |           |           | 1490 RR   |           |
| 2-Chlorophenol   | 5800       | mg/kg     |           |           | 1490 RR   |           |
| 2-Methylnaphthalene  | 3000       | mg/kg     |           |           | 1490 RR   |           |
| 2-Methylphenol(o-Cresol)   | 41000      | mg/kg     |           |           | 1490 RR   |           |
| 2-Nitrophenol  |            | mg/kg     |           |           | 1490 RR   |           |
| 3&4-Methylphenol(m&p Cresol)   | 41000      | mg/kg     |           |           | 1490 RR   |           |
| 3,3'-Dichlorobenzidine   | 5.1        | mg/kg     |           |           | 7440 RR   |           |
| 3,3'-Dimethylbenzidine   | 0.21       | mg/kg     |           |           | 14900 RR  |           |
| 4,6-Dinitro-2-methylphenol   | 66         | mg/kg     |           |           | 2980 RR   |           |
| 4-Bromophenylphenyl ether  |            | mg/kg     |           |           | 1490 RR   |           |
| 4-Chloro-3-methylphenol  | 82000      | mg/kg     |           |           | 2980 RR   |           |
| 4-Chlorophenylphenyl ether   |            | mg/kg     |           |           | 1490 RR   |           |
| 4-Nitrophenol  |            | mg/kg     |           |           | 7440 RR   |           |
| Acenaphthene   | 45000      | mg/kg     |           |           | 1490 RR   |           |
| Acenaphthylene   | 45000      | mg/kg     |           |           | 1490 RR   |           |
| Anthracene   | 230000     | mg/kg     |           |           | 1490 RR   |           |
| Benzo(a)anthracene   | 21         | mg/kg     |           |           | 1490 RR   |           |
| Benzo(a)pyrene   | 2.1        | mg/kg     |           |           | 1490 RR   |           |
| Benzo(b)fluoranthene   | 21         | mg/kg     |           |           | 1490 RR   |           |
| Benzo(g,h,i)perylene   |            | mg/kg     |           |           | 1490 RR   |           |
| Benzo(k)fluoranthene   | 210        | mg/kg     |           |           | 1490 RR   |           |
| Butylbenzylphthalate   | 1200       | mg/kg     |           |           | 1490 RR   |           |
| Di-n-butylphthalate  | 82000      | mg/kg     |           |           | 1490 RR   |           |
| Di-n-octylphthalate  | 8200       | mg/kg     |           |           | 1490 RR   |           |
| Dibenz(a,h)anthracene  | 2.1        | mg/kg     |           |           | 1490 RR   |           |
| Diethylphthalate   | 660000     | mg/kg     |           |           | 1490 RR   |           |
| Dimethylphthalate  |            | mg/kg     |           |           | 1490 RR   |           |
| Fluoranthene   | 30000      | mg/kg     |           |           | 1490 RR   |           |
| Fluorene   | 30000      | mg/kg     |           |           | 1490 RR   |           |
| Hexachloro-1,3-butadiene   | 5.3        | mg/kg     |           |           | 1490 RR   |           |
| Hexachlorobenzene  | 0.96       | mg/kg     |           |           | 1490 RR   |           |
| Hexachlorocyclopentadiene  | 7.5        | mg/kg     |           |           | 1490 RR   |           |
| Hexachloroethane   | 8          | mg/kg     |           |           | 1490 RR   |           |
| Indeno(1,2,3-cd)pyrene   | 21         | mg/kg     |           |           | 1490 RR   |           |
| Isophorone   | 2400       | mg/kg     |           |           | 1490 RR   |           |
| Naphthalene  | 17         | mg/kg     |           |           | 1490 RR   |           |
| Nitrobenzene   | 22         | mg/kg     |           |           | 1490 RR   |           |
| Pentachloroethane  | 36         | mg/kg     |           |           | 2980 RR   |           |
| Pentachlorophenol  | 4          | mg/kg     |           |           | 7440 RR   |           |
| Phenanthrene   |            | mg/kg     |           |           | 1490 RR   |           |
| Phenol   | 250000     | mg/kg     |           |           | 1490 RR   |           |
| Pyrene   | 23000      | mg/kg     |           |           | 1490 RR   |           |
| Pyridine   | 1200       | mg/kg     |           |           | 1490 RR   |           |
| bis(2-Chloroethoxy)methane   | 2500       | mg/kg     |           |           | 1490 RR   |           |
| bis(2-Chloroethyl) ether   | 1          | mg/kg     |           |           | 1490 RR   |           |
| bis(2-Chloroisopropyl) ether   | 22         | mg/kg     |           |           | 1490 RR   |           |
| bis(2-Ethylhexyl)phthalate   | 160        | mg/kg     |           |           | 1490 RR   |           |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 9  |            |             |             |           |           |
|--|-----------|-------|-------------|------------|-------------|-------------|-----------|-----------|
|  |           |       | TM-SD-42    | TM-SD-43   | TM-SD-44    | TM-SD-45    | TM-SD-46  | TM-SD-46  |
|  |           |       | 4/17/2015   | 8/13/2015  | 4/20/2015   | 8/13/2015   | 4/20/2015 | 8/13/2015 |
|  |           |       | Discrete    | Discrete   | Discrete    | Discrete    | Composite | Composite |
| Sample Location and Depth  |           |       | South 0-12" | South 6-7" | North 0-12" | No Recovery | 0-12"     | 6-7"      |
| Compound   | PAL       | Units |             |            |             |             |           |           |
| <b>VOC</b>   |           |       |             |            |             |             |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.439 UJ    | 0.307 U    | 0.339 UJ    |             |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.248 J     | 0.614 U    | 0.679 U     |             |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.877 U     | 0.614 U    | 0.679 U     |             |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.877 U     | 0.614 U    | 0.679 U     |             |           |           |
| Acetone  | 670000    | mg/kg | 0.877 U     | 0.614 U    | 0.679 U     |             |           |           |
| Benzene  | 5.1       | mg/kg | 0.439 U     | 0.558      | 0.339 U     |             |           |           |
| Bromoform  | 86        | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Chloroethane   | 57000     | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Chloroform   | 1.4       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.439 U     | 2.45       | 0.339 U     |             |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.439 UJ    | 0.307 U    | 0.339 UJ    |             |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Toluene  | 47000     | mg/kg | 0.439 U     | 3.73       | 0.339 U     |             |           |           |
| Trichloroethene  | 6         | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| Xylene (Total)   | 2800      | mg/kg | 0.696 J     | 9.37       | 1.02 U      |             |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.439 U     | 0.307 U    | 0.339 U     |             |           |           |
| <b>Metals</b>  |           |       |             |            |             |             |           |           |
| Antimony   | 470.0     | mg/kg | 4.6 J-      | 4.8 UJ     | 10.9        |             |           |           |
| Arsenic  | 3.0       | mg/kg | 14.1        | 26.1       | 10.1        |             |           |           |
| Barium   | 220,000.0 | mg/kg | 43.2        | 173        | 40.2        |             |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.067 B     | 0.099 B    | 0.08 B      |             |           |           |
| Cadmium  | 980.0     | mg/kg | 0.34 U      | 2.1 J      | 0.3         |             |           |           |
| Chromium   | 120,000.0 | mg/kg | 591         | 1930       | 330         |             |           |           |
| Cobalt   | 350.0     | mg/kg | 15.3        | 10.9       | 13.4        |             |           |           |
| Copper   | 47,000.0  | mg/kg | 205         | 390 J      | 212         |             |           |           |
| Lead   | 800.0     | mg/kg | 44.8 J+     | 113 J      | 80.6        |             |           |           |
| Nickel   | 22,000.0  | mg/kg | 147         | 155 J      | 123         |             |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.7         | 1.8 J      | 1.8         |             |           |           |
| Silver   | 5,800.0   | mg/kg | 9.3         | 9.9        | 6.2         |             |           |           |
| Thallium   | 12.0      | mg/kg | 2.2 U       | 1.6 U      | 2 U         |             |           |           |
| Tin  | 700,000.0 | mg/kg | 1940 J+     | 1770 J     | 389         |             |           |           |
| Vanadium   | 5,800.0   | mg/kg | 26.2        | 17.1       | 31.3        |             |           |           |
| Zinc   | 350,000.0 | mg/kg | 310         | 259 J      | 809         |             |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.8 R       | 1.5 UJ     | 1.3 R       |             |           |           |
| Mercury  | 350.0     | mg/kg | 0.2         | 0.28       | 0.19        |             |           |           |
| <b>PCB</b>   |           |       |             |            |             |             |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |            |             | 3.67 U      | 4.07 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |            |             | 3.67 U      | 4.07 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |            |             | 3.67 U      | 4.07 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |            |             | 3.67 U      | 4.07 U    |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |            |             | 3.67 U      | 4.07 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |            |             | 3.67 U      | 4.07 U    |           |
| <b>Cyanide</b>   |           |       |             |            |             |             |           |           |
| Cyanide  | 150       | mg/kg |             |            |             | 3.6 J-      | 12.5      |           |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.



**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 9 |           |             |            |             |             |          |         |
|--|------------|-----------|-------------|------------|-------------|-------------|----------|---------|
|  | TM-SD-42   | TM-SD-43  | TM-SD-44    | TM-SD-45   | TM-SD-46    | TM-SD-46    |          |         |
|  | 4/17/2015  | 8/13/2015 | 4/20/2015   | 8/13/2015  | 4/20/2015   | 8/13/2015   |          |         |
|  | Discrete   | Discrete  | Discrete    | Discrete   | Composite   | Composite   |          |         |
| Compound   | PAL        | Units     | South 0-12" | South 6-7' | North 0-12" | No Recovery | 0-12"    | 6-7'    |
| <b>SVOC</b>  |            |           |             |            |             |             |          |         |
| 1,2,4-Trichlorobenzene   | 110        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 1,2-Dichlorobenzene  | 9300       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 1,3-Dichlorobenzene  |            | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 1,4-Dichlorobenzene  | 11         | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2,4,5-Trichlorophenol  | 82000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2,4,6-Trichlorophenol  | 210        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2,4-Dichlorophenol   | 2500       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2,4-Dimethylphenol   | 16000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2,4-Dinitrophenol  | 1600       | mg/kg     |             |            |             |             | 7860 RR  | 141 RR  |
| 2,4-Dinitrotoluene   | 7.4        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2,6-Dinitrotoluene   | 1.5        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2-Chloronaphthalene  | 60000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2-Chlorophenol   | 5800       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2-Methylnaphthalene  | 3000       | mg/kg     |             |            |             |             | 1570 RR  | 7.01 RR |
| 2-Methylphenol(o-Cresol)   | 41000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 2-Nitrophenol  |            | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 3&4-Methylphenol(m&p Cresol)   | 41000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 3,3'-Dichlorobenzidine   | 5.1        | mg/kg     |             |            |             |             | 7860 RR  | 141 RR  |
| 3,3'-Dimethylbenzidine   | 0.21       | mg/kg     |             |            |             |             | 15700 RR | 282 RR  |
| 4,6-Dinitro-2-methylphenol   | 66         | mg/kg     |             |            |             |             | 3140 RR  | 56.4 RR |
| 4-Bromophenylphenyl ether  |            | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 4-Chloro-3-methylphenol  | 82000      | mg/kg     |             |            |             |             | 3140 RR  | 56.4 RR |
| 4-Chlorophenylphenyl ether   |            | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| 4-Nitrophenol  |            | mg/kg     |             |            |             |             | 7860 RR  | 141 RR  |
| Acenaphthene   | 45000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Acenaphthylene   | 45000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Anthracene   | 230000     | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Benzo(a)anthracene   | 21         | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Benzo(a)pyrene   | 2.1        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Benzo(b)fluoranthene   | 21         | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Benzo(g,h,i)perylene   |            | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Benzo(k)fluoranthene   | 210        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Butylbenzylphthalate   | 1200       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Di-n-butylphthalate  | 82000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Di-n-octylphthalate  | 8200       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Dibenz(a,h)anthracene  | 2.1        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Diethylphthalate   | 660000     | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Dimethylphthalate  |            | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Fluoranthene   | 30000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Fluorene   | 30000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Hexachloro-1,3-butadiene   | 5.3        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Hexachlorobenzene  | 0.96       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Hexachlorocyclopentadiene  | 7.5        | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Hexachloroethane   | 8          | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Indeno(1,2,3-cd)pyrene   | 21         | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Isophorone   | 2400       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Naphthalene  | 17         | mg/kg     |             |            |             |             | 1570 RR  | 8.53 RR |
| Nitrobenzene   | 22         | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Pentachloroethane  | 36         | mg/kg     |             |            |             |             | 3140 RR  | 56.4 RR |
| Pentachlorophenol  | 4          | mg/kg     |             |            |             |             | 7860 RR  | 141 RR  |
| Phenanthrene   |            | mg/kg     |             |            |             |             | 1570 RR  | 4.93 RR |
| Phenol   | 250000     | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Pyrene   | 23000      | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| Pyridine   | 1200       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| bis(2-Chloroethoxy)methane   | 2500       | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| bis(2-Chloroethyl) ether   | 1          | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| bis(2-Chloroisopropyl) ether   | 22         | mg/kg     |             |            |             |             | 1570 RR  | 28.2 RR |
| bis(2-Ethylhexyl)phthalate   | 160        | mg/kg     |             |            |             |             | 1570 RR  | 11.1 RR |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 10 |                |             |                |           |           |
|--|-----------|-------|-------------|----------------|-------------|----------------|-----------|-----------|
|  |           |       | TM-SD-47    | TM-SD-48       | TM-SD-49    | TM-SD-50       | TM-SD-51  | TM-SD-51  |
|  |           |       | 4/17/2015   | 8/13/2015      | 4/20/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 |
|  |           |       | Discrete    | Discrete       | Discrete    | Discrete       | Composite | Composite |
| PAL  |           |       | South 0-12" | South 5.5-6.5' | North 0-12" | North 1.5-2.5' | 0-12"     | 1.5-6.5'  |
| Compound   | PAL       | Units |             |                |             |                |           |           |
| <b>VOC</b>   |           |       |             |                |             |                |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.811 UJ    | 0.848 U        | 0.423 UJ    | 0.696 U        |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 1.62 U      | 1.7 U          | 0.846 U     | 1.39 U         |           |           |
| 2-Hexanone   | 1300      | mg/kg | 1.62 U      | 1.7 U          | 0.846 U     | 1.39 U         |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 1.62 U      | 1.7 U          | 0.846 U     | 1.39 U         |           |           |
| Acetone  | 670000    | mg/kg | 1.62 U      | 1.7 U          | 0.64 J      | 1.39 U         |           |           |
| Benzene  | 5.1       | mg/kg | 0.811 U     | 0.696 J        | 0.423 U     | 0.477 J        |           |           |
| Bromoform  | 86        | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.811 U     | 0.848 U        | 8.44        | 0.696 U        |           |           |
| Chloroethane   | 57000     | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Chloroform   | 1.4       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.811 U     | 0.728 J        | 0.423 U     | 1.86           |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.811 UJ    | 0.848 U        | 0.423 UJ    | 0.696 U        |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Toluene  | 47000     | mg/kg | 0.811 U     | 0.848 U        | 0.146 J     | 0.229 J        |           |           |
| Trichloroethene  | 6         | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| Xylene (Total)   | 2800      | mg/kg | 2.43 U      | 9.59           | 0.54 J      | 13.8           |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.811 U     | 0.848 U        | 0.423 U     | 0.696 U        |           |           |
| <b>Metals</b>  |           |       |             |                |             |                |           |           |
| Antimony   | 470.0     | mg/kg | 0.72 B      | 13 UJ          | 10.4        | 10.6 UJ        |           |           |
| Arsenic  | 3.0       | mg/kg | 16.1        | 28.8           | 11.7        | 26.5           |           |           |
| Barium   | 220,000.0 | mg/kg | 81.3        | 291            | 43          | 204            |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.24 B      | 0.18 B         | 0.067 B     | 0.1 B          |           |           |
| Cadmium  | 980.0     | mg/kg | 0.3 B       | 4.7 J          | 1.4         | 3.3 J          |           |           |
| Chromium   | 120,000.0 | mg/kg | 1950        | 4130           | 371         | 3470           |           |           |
| Cobalt   | 350.0     | mg/kg | 17.7        | 14.3           | 13.2        | 11.7           |           |           |
| Copper   | 47,000.0  | mg/kg | 328         | 620 J          | 161         | 509 J          |           |           |
| Lead   | 800.0     | mg/kg | 91.1 J+     | 222 J          | 30.2        | 172 J          |           |           |
| Nickel   | 22,000.0  | mg/kg | 178         | 195 J          | 138         | 167 J          |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.7         | 3.4 J          | 2.2         | 2.7 J          |           |           |
| Silver   | 5,800.0   | mg/kg | 9.3         | 11.4           | 5.9         | 12             |           |           |
| Thallium   | 12.0      | mg/kg | 3.7 U       | 4.3 U          | 2.5 U       | 3.5 U          |           |           |
| Tin  | 700,000.0 | mg/kg | 7680 J+     | 3750 J         | 828         | 3430 J         |           |           |
| Vanadium   | 5,800.0   | mg/kg | 60          | 37.7           | 22.2        | 26.5           |           |           |
| Zinc   | 350,000.0 | mg/kg | 601         | 709 J          | 284         | 497 J          |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 2.5 R       | 2.3 UJ         | 1.5 R       | 2 UJ           |           |           |
| Mercury  | 350.0     | mg/kg | 0.16 J      | 0.39           | 0.046 J     | 0.43           |           |           |
| <b>PCB</b>   |           |       |             |                |             |                |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |                |             | 3.62 U         | 4.71 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |                |             | 3.62 U         | 4.71 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |                |             | 3.62 U         | 4.71 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |                |             | 3.62 U         | 4.71 U    |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |                |             | 3.62 U         | 4.71 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |                |             | 3.62 U         | 3.82 J    |           |
| <b>Cyanide</b>   |           |       |             |                |             |                |           |           |
| Cyanide  | 150       | mg/kg |             |                |             | 3.4 J-         | 3.2       |           |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 10 |           |             |                |             |                |          |          |
|--|-------------|-----------|-------------|----------------|-------------|----------------|----------|----------|
|  | TM-SD-47    | TM-SD-48  | TM-SD-49    | TM-SD-50       | TM-SD-51    | TM-SD-51       |          |          |
|  | 4/17/2015   | 8/13/2015 | 4/20/2015   | 8/13/2015      | 4/20/2015   | 8/13/2015      |          |          |
|  | Discrete    | Discrete  | Discrete    | Discrete       | Composite   | Composite      |          |          |
| Compound   | PAL         | Units     | South 0-12" | South 5.5-6.5' | North 0-12" | North 1.5-2.5' | 0-12"    | 1.5-6.5' |
| <i>SVOC</i>  |             |           |             |                |             |                |          |          |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 1,2-Dichlorobenzene  | 9300        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 1,3-Dichlorobenzene  |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 1,4-Dichlorobenzene  | 11          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2,4,6-Trichlorophenol  | 210         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2,4-Dichlorophenol   | 2500        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2,4-Dimethylphenol   | 16000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2,4-Dinitrophenol  | 1600        | mg/kg     |             |                |             |                | 7820 RR  | 157 RR   |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2-Chloronaphthalene  | 60000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2-Chlorophenol   | 5800        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2-Methylnaphthalene  | 3000        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 2-Nitrophenol  |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg     |             |                |             |                | 7820 RR  | 157 RR   |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg     |             |                |             |                | 15600 RR | 313 RR   |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg     |             |                |             |                | 3130 RR  | 62.6 RR  |
| 4-Bromophenylphenyl ether  |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg     |             |                |             |                | 3130 RR  | 62.6 RR  |
| 4-Chlorophenylphenyl ether   |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| 4-Nitrophenol  |             | mg/kg     |             |                |             |                | 7820 RR  | 157 RR   |
| Acenaphthene   | 45000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Acenaphthylene   | 45000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Anthracene   | 230000      | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Benzo(a)anthracene   | 21          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Benzo(a)pyrene   | 2.1         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Benzo(b)fluoranthene   | 21          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Benzo(g,h,i)perylene   |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Benzo(k)fluoranthene   | 210         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Butylbenzylphthalate   | 1200        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Di-n-butylphthalate  | 82000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Di-n-octylphthalate  | 8200        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Diethylphthalate   | 660000      | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Dimethylphthalate  |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Fluoranthene   | 30000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Fluorene   | 30000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Hexachlorobenzene  | 0.96        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Hexachloroethane   | 8           | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Isophorone   | 2400        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Naphthalene  | 17          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Nitrobenzene   | 22          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Pentachloroethane  | 36          | mg/kg     |             |                |             |                | 3130 RR  | 62.6 RR  |
| Pentachlorophenol  | 4           | mg/kg     |             |                |             |                | 7820 RR  | 157 RR   |
| Phenanthrene   |             | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Phenol   | 250000      | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Pyrene   | 23000       | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| Pyridine   | 1200        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| bis(2-Chloroethyl) ether   | 1           | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg     |             |                |             |                | 1560 RR  | 31.3 RR  |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification       | Transect 11 |              |             |              |           |              |
|-----------------------------|-------------|--------------|-------------|--------------|-----------|--------------|
|                             | TM-SD-53    | TM-SD-54     | TM-SD-55    | TM-SD-56     | TM-SD-57  | TM-SD-57     |
|                             | 4/17/2015   | 8/13/2015    | 4/20/2015   | 8/13/2015    | 4/20/2015 | 8/13/2015    |
|                             | Discrete    | Discrete     | Discrete    | Discrete     | Composite | Composite    |
| Sample Location and Depth   | South 0-12" | Inaccessible | North 0-12" | Inaccessible | 0-12"     | Inaccessible |
| Compound                    | PAL         | Units        |             |              |           |              |
| <b>VOC</b>                  |             |              |             |              |           |              |
| 1,1,1,2-Tetrachloroethane   | 8.80        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 1,1,1-Trichloroethane       | 36,000.00   | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 1,1,2,2-Tetrachloroethane   | 2.70        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 1,1,2-Trichloroethane       | 5.00        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 1,1-Dichloroethane          | 16.00       | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 1,1-Dichloroethene          | 1,000.00    | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 1,2-Dichloroethane          | 2.00        | mg/kg        | 0.583 UJ    | 0.41 UJ      |           |              |
| 1,2-Dichloropropane         | 4.40        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| 2-Butanone (MEK)            | 190,000.00  | mg/kg        | 1.17 U      | 0.82 U       |           |              |
| 2-Hexanone                  | 1,300.00    | mg/kg        | 1.17 U      | 0.82 U       |           |              |
| 4-Methyl-2-pentanone (MIBK) | 56,000.00   | mg/kg        | 1.17 U      | 0.82 U       |           |              |
| Acetone                     | 670,000.00  | mg/kg        | 0.849 J     | 0.82 U       |           |              |
| Benzene                     | 5.10        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Bromoform                   | 86.00       | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Carbon disulfide            | 3,500.00    | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Carbon tetrachloride        | 2.90        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Chlorobenzene               | 1,300.00    | mg/kg        | 2.41        | 0.41 U       |           |              |
| Chloroethane                | 57,000.00   | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Chloroform                  | 1.40        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Ethylbenzene                | 25.00       | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Methylene Chloride          | 1,000.00    | mg/kg        | 0.583 UJ    | 0.41 UJ      |           |              |
| Tetrachloroethene           | 100.00      | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Toluene                     | 47,000.00   | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Trichloroethene             | 6.00        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Vinyl chloride              | 1.70        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| Xylene (Total)              | 2,800.00    | mg/kg        | 1.12 J      | 1.23 U       |           |              |
| cis-1,3-Dichloropropene     | 8.20        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| trans-1,2-Dichloroethene    | 23,000.00   | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| trans-1,3-Dichloropropene   | 8.20        | mg/kg        | 0.583 U     | 0.41 U       |           |              |
| <b>Metals</b>               |             |              |             |              |           |              |
| Antimony                    | 470.0       | mg/kg        | 2 UJ        | 19.7         |           |              |
| Arsenic                     | 3.0         | mg/kg        | 26.9        | 9.1          |           |              |
| Barium                      | 220,000.0   | mg/kg        | 195         | 47.5         |           |              |
| Beryllium                   | 2,300.0     | mg/kg        | 0.084 B     | 0.12 B       |           |              |
| Cadmium                     | 980.0       | mg/kg        | 1.7         | 0.84         |           |              |
| Chromium                    | 120,000.0   | mg/kg        | 2350        | 286          |           |              |
| Cobalt                      | 350.0       | mg/kg        | 12.7        | 8.5          |           |              |
| Copper                      | 47,000.0    | mg/kg        | 366         | 186          |           |              |
| Lead                        | 800.0       | mg/kg        | 145 J+      | 59           |           |              |
| Nickel                      | 22,000.0    | mg/kg        | 159         | 101          |           |              |
| Selenium                    | 5,800.0     | mg/kg        | 3.1         | 1.9          |           |              |
| Silver                      | 5,800.0     | mg/kg        | 12.7        | 3.6          |           |              |
| Thallium                    | 12.0        | mg/kg        | 3.3 U       | 1.7 U        |           |              |
| Tin                         | 700,000.0   | mg/kg        | 3510 J+     | 1090         |           |              |
| Vanadium                    | 5,800.0     | mg/kg        | 21.7        | 45.1         |           |              |
| Zinc                        | 350,000.0   | mg/kg        | 403         | 790          |           |              |
| Chromium, Hexavalent        | 6.3         | mg/kg        | 1.9 R       | 1.4 R        |           |              |
| Mercury                     | 350.0       | mg/kg        | 0.43        | 0.02 J       |           |              |
| <b>PCB</b>                  |             |              |             |              |           |              |
| PCB-1016 (Aroclor 1016)     | 27          | mg/kg        |             |              | 3.21 U    |              |
| PCB-1221 (Aroclor 1221)     | 0.72        | mg/kg        |             |              | 3.21 U    |              |
| PCB-1232 (Aroclor 1232)     | 0.72        | mg/kg        |             |              | 3.21 U    |              |
| PCB-1242 (Aroclor 1242)     | 0.97        | mg/kg        |             |              | 3.21 U    |              |
| PCB-1248 (Aroclor 1248)     | 0.94        | mg/kg        |             |              | 3.21 U    |              |
| PCB-1254 (Aroclor 1254)     | 0.97        | mg/kg        |             |              | 3.21 U    |              |
| <b>Cyanide</b>              |             |              |             |              |           |              |
| Cyanide                     | 150         | mg/kg        |             |              | 1.1 J-    |              |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 11 |           |             |              |             |              |
|--|-------------|-----------|-------------|--------------|-------------|--------------|
|  | TM-SD-53    | TM-SD-54  | TM-SD-55    | TM-SD-56     | TM-SD-57    | TM-SD-57     |
|  | 4/17/2015   | 8/13/2015 | 4/20/2015   | 8/13/2015    | 4/20/2015   | 8/13/2015    |
|  | Discrete    | Discrete  | Discrete    | Discrete     | Composite   | Composite    |
| Compound   | PAL         | Units     | South 0-12" | Inaccessible | North 0-12" | Inaccessible |
| <i>SVOC</i>  |             |           |             |              |             |              |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg     |             |              |             | 1300 RR      |
| 1,2-Dichlorobenzene  | 9,300       | mg/kg     |             |              |             | 1300 RR      |
| 1,3-Dichlorobenzene  |             | mg/kg     |             |              |             | 1300 RR      |
| 1,4-Dichlorobenzene  | 11          | mg/kg     |             |              |             | 1300 RR      |
| 2,4,5-Trichlorophenol  | 82,000      | mg/kg     |             |              |             | 1300 RR      |
| 2,4,6-Trichlorophenol  | 210         | mg/kg     |             |              |             | 1300 RR      |
| 2,4-Dichlorophenol   | 2,500       | mg/kg     |             |              |             | 1300 RR      |
| 2,4-Dimethylphenol   | 16,000      | mg/kg     |             |              |             | 1300 RR      |
| 2,4-Dinitrophenol  | 1,600       | mg/kg     |             |              |             | 6500 RR      |
| 2,4-Dinitrotoluene   | 7           | mg/kg     |             |              |             | 1300 RR      |
| 2,6-Dinitrotoluene   | 2           | mg/kg     |             |              |             | 1300 RR      |
| 2-Chloronaphthalene  | 60,000      | mg/kg     |             |              |             | 1300 RR      |
| 2-Chlorophenol   | 5,800       | mg/kg     |             |              |             | 1300 RR      |
| 2-Methylnaphthalene  | 3,000       | mg/kg     |             |              |             | 1300 RR      |
| 2-Methylphenol(o-Cresol)   | 41,000      | mg/kg     |             |              |             | 1300 RR      |
| 2-Nitrophenol  |             | mg/kg     |             |              |             | 1300 RR      |
| 3&4-Methylphenol(m&p Cresol)   | 41,000      | mg/kg     |             |              |             | 1300 RR      |
| 3,3'-Dichlorobenzidine   | 5           | mg/kg     |             |              |             | 6500 RR      |
| 3,3'-Dimethylbenzidine   | 0           | mg/kg     |             |              |             | 13000 RR     |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg     |             |              |             | 2600 RR      |
| 4-Bromophenylphenyl ether  |             | mg/kg     |             |              |             | 1300 RR      |
| 4-Chloro-3-methylphenol  | 82,000      | mg/kg     |             |              |             | 2600 RR      |
| 4-Chlorophenylphenyl ether   |             | mg/kg     |             |              |             | 1300 RR      |
| 4-Nitrophenol  |             | mg/kg     |             |              |             | 6500 RR      |
| Acenaphthene   | 45,000      | mg/kg     |             |              |             | 1300 RR      |
| Acenaphthylene   | 45,000      | mg/kg     |             |              |             | 1300 RR      |
| Anthracene   | 230,000     | mg/kg     |             |              |             | 1300 RR      |
| Benzo(a)anthracene   | 21          | mg/kg     |             |              |             | 1300 RR      |
| Benzo(a)pyrene   | 2           | mg/kg     |             |              |             | 1300 RR      |
| Benzo(b)fluoranthene   | 21          | mg/kg     |             |              |             | 1300 RR      |
| Benzo(g,h,i)perylene   |             | mg/kg     |             |              |             | 1300 RR      |
| Benzo(k)fluoranthene   | 210         | mg/kg     |             |              |             | 1300 RR      |
| Butylbenzylphthalate   | 1,200       | mg/kg     |             |              |             | 1300 RR      |
| Di-n-butylphthalate  | 82,000      | mg/kg     |             |              |             | 1300 RR      |
| Di-n-octylphthalate  | 8,200       | mg/kg     |             |              |             | 1300 RR      |
| Dibenz(a,h)anthracene  | 2           | mg/kg     |             |              |             | 1300 RR      |
| Diethylphthalate   | 660,000     | mg/kg     |             |              |             | 1300 RR      |
| Dimethylphthalate  |             | mg/kg     |             |              |             | 1300 RR      |
| Fluoranthene   | 30,000      | mg/kg     |             |              |             | 1300 RR      |
| Fluorene   | 30,000      | mg/kg     |             |              |             | 1300 RR      |
| Hexachloro-1,3-butadiene   | 5           | mg/kg     |             |              |             | 1300 RR      |
| Hexachlorobenzene  | 1           | mg/kg     |             |              |             | 1300 RR      |
| Hexachlorocyclopentadiene  | 8           | mg/kg     |             |              |             | 1300 RR      |
| Hexachloroethane   | 8           | mg/kg     |             |              |             | 1300 RR      |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg     |             |              |             | 1300 RR      |
| Isophorone   | 2,400       | mg/kg     |             |              |             | 1300 RR      |
| Naphthalene  | 17          | mg/kg     |             |              |             | 1300 RR      |
| Nitrobenzene   | 22          | mg/kg     |             |              |             | 1300 RR      |
| Pentachloroethane  | 36          | mg/kg     |             |              |             | 2600 RR      |
| Pentachlorophenol  | 4           | mg/kg     |             |              |             | 6500 RR      |
| Phenanthrene   |             | mg/kg     |             |              |             | 1300 RR      |
| Phenol   | 250,000     | mg/kg     |             |              |             | 1300 RR      |
| Pyrene   | 23,000      | mg/kg     |             |              |             | 1300 RR      |
| Pyridine   | 1,200       | mg/kg     |             |              |             | 1300 RR      |
| bis(2-Chloroethoxy)methane   | 2,500       | mg/kg     |             |              |             | 1300 RR      |
| bis(2-Chloroethyl) ether   | 1           | mg/kg     |             |              |             | 1300 RR      |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg     |             |              |             | 1300 RR      |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg     |             |              |             | 1300 RR      |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 12 |              |             |                |           |           |
|--|-----------|-------|-------------|--------------|-------------|----------------|-----------|-----------|
|  |           |       | TM-SD-58    | TM-SD-59     | TM-SD-60    | TM-SD-61       | TM-SD-62  | TM-SD-62  |
|  |           |       | 4/17/2015   | 8/13/2015    | 4/20/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 |
|  |           |       | Discrete    | Discrete     | Discrete    | Discrete       | Composite | Composite |
| Sample Location and Depth  |           |       | South 0-12" | Inaccessible | North 0-12" | North 3.5-4.5' | 0-12"     | 3.5-4.5'  |
| Compound   | PAL       | Units |             |              |             |                |           |           |
| <b>VOC</b>   |           |       |             |              |             |                |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.406 U     |              | 0.436 UJ    | 0.878 U        |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.812 U     |              | 0.871 U     | 1.76 U         |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.812 UJ    |              | 0.871 U     | 1.76 U         |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.812 U     |              | 0.871 U     | 1.76 U         |           |           |
| Acetone  | 670000    | mg/kg | 0.812 UJ    |              | 0.589 J     | 1.76 U         |           |           |
| Benzene  | 5.1       | mg/kg | 0.406 U     |              | 0.436 U     | 0.84 J         |           |           |
| Bromoform  | 86        | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.406 U     |              | 0.834       | 5.69           |           |           |
| Chloroethane   | 57000     | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Chloroform   | 1.4       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.406 UJ    |              | 0.436 UJ    | 0.878 U        |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Toluene  | 47000     | mg/kg | 0.406 U     |              | 0.436 U     | 0.309 J        |           |           |
| Trichloroethene  | 6         | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| Xylene (Total)   | 2800      | mg/kg | 1.22 U      |              | 1.2 J       | 3.34           |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.406 U     |              | 0.436 U     | 0.878 U        |           |           |
| <b>Metals</b>  |           |       |             |              |             |                |           |           |
| Antimony   | 470.0     | mg/kg | 1.2 UJ      |              | 5.4         | 12.4 UJ        |           |           |
| Arsenic  | 3.0       | mg/kg | 18          |              | 12.4        | 30.7           |           |           |
| Barium   | 220,000.0 | mg/kg | 114         |              | 59.9        | 172            |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.3         |              | 0.14 B      | 0.12 B         |           |           |
| Cadmium  | 980.0     | mg/kg | 5.3         |              | 0.43        | 8.7 J          |           |           |
| Chromium   | 120,000.0 | mg/kg | 1690        |              | 590         | 3620           |           |           |
| Cobalt   | 350.0     | mg/kg | 9           |              | 10.6        | 13.6           |           |           |
| Copper   | 47,000.0  | mg/kg | 331         |              | 248         | 562 J          |           |           |
| Lead   | 800.0     | mg/kg | 224 J+      |              | 55.2        | 240 J          |           |           |
| Nickel   | 22,000.0  | mg/kg | 96.2        |              | 111         | 192 J          |           |           |
| Selenium   | 5,800.0   | mg/kg | 2.3         |              | 1.5         | 3.2 J          |           |           |
| Silver   | 5,800.0   | mg/kg | 7.4         |              | 6           | 12             |           |           |
| Thallium   | 12.0      | mg/kg | 2 U         |              | 2.2 U       | 4.1 U          |           |           |
| Tin  | 700,000.0 | mg/kg | 1340 J+     |              | 1520        | 2640 J         |           |           |
| Vanadium   | 5,800.0   | mg/kg | 73.6        |              | 37.5        | 23.7           |           |           |
| Zinc   | 350,000.0 | mg/kg | 1280        |              | 332         | 1110 J         |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.7 R       |              | 1.7 R       | 2.3 UJ         |           |           |
| Mercury  | 350.0     | mg/kg | 0.24        |              | 0.34        | 0.41           |           |           |
| <b>PCB</b>   |           |       |             |              |             |                |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |              |             | 3.75 U         | 5.06 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |              |             | 3.75 U         | 5.06 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |              |             | 3.75 U         | 5.06 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |              |             | 3.75 U         | 5.06 U    |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |              |             | 3.75 U         | 5.06 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |              |             | 3.75 U         | 3.7 J     |           |
| <b>Cyanide</b>   |           |       |             |              |             |                |           |           |
| Cyanide  | 150       | mg/kg |             |              |             | 6.9 J-         | 18.7 J    |           |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 12 |           |             |              |             |                |          |          |
|--|-------------|-----------|-------------|--------------|-------------|----------------|----------|----------|
|  | TM-SD-58    | TM-SD-59  | TM-SD-60    | TM-SD-61     | TM-SD-62    | TM-SD-62       |          |          |
|  | 4/17/2015   | 8/13/2015 | 4/20/2015   | 8/13/2015    | 4/20/2015   | 8/13/2015      |          |          |
|  | Discrete    | Discrete  | Discrete    | Discrete     | Composite   | Composite      |          |          |
| Compound   | PAL         | Units     | South 0-12" | Inaccessible | North 0-12" | North 3.5-4.5' | 0-12"    | 3.5-4.5' |
| <i>SVOC</i>  |             |           |             |              |             |                |          |          |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 1,2-Dichlorobenzene  | 9300        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 1,3-Dichlorobenzene  |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 1,4-Dichlorobenzene  | 11          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2,4,6-Trichlorophenol  | 210         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2,4-Dichlorophenol   | 2500        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2,4-Dimethylphenol   | 16000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2,4-Dinitrophenol  | 1600        | mg/kg     |             |              |             |                | 8080 RR  | 176 RR   |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2-Chloronaphthalene  | 60000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2-Chlorophenol   | 5800        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2-Methylnaphthalene  | 3000        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 2-Nitrophenol  |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg     |             |              |             |                | 8080 RR  | 176 RR   |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg     |             |              |             |                | 16200 RR | 352 RR   |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg     |             |              |             |                | 3230 RR  | 70.3 RR  |
| 4-Bromophenylphenyl ether  |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg     |             |              |             |                | 3230 RR  | 70.3 RR  |
| 4-Chlorophenylphenyl ether   |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| 4-Nitrophenol  |             | mg/kg     |             |              |             |                | 8080 RR  | 176 RR   |
| Acenaphthene   | 45000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Acenaphthylene   | 45000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Anthracene   | 230000      | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Benzo(a)anthracene   | 21          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Benzo(a)pyrene   | 2.1         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Benzo(b)fluoranthene   | 21          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Benzo(g,h,i)perylene   |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Benzo(k)fluoranthene   | 210         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Butylbenzylphthalate   | 1200        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Di-n-butylphthalate  | 82000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Di-n-octylphthalate  | 8200        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Diethylphthalate   | 660000      | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Dimethylphthalate  |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Fluoranthene   | 30000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Fluorene   | 30000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Hexachlorobenzene  | 0.96        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Hexachloroethane   | 8           | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Isophorone   | 2400        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Naphthalene  | 17          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Nitrobenzene   | 22          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Pentachloroethane  | 36          | mg/kg     |             |              |             |                | 3230 RR  | 70.3 RR  |
| Pentachlorophenol  | 4           | mg/kg     |             |              |             |                | 8080 RR  | 176 RR   |
| Phenanthrene   |             | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Phenol   | 250000      | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Pyrene   | 23000       | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| Pyridine   | 1200        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| bis(2-Chloroethyl) ether   | 1           | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg     |             |              |             |                | 1620 RR  | 35.2 RR  |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 13 |            |             |            |           |           |
|--|-----------|-------|-------------|------------|-------------|------------|-----------|-----------|
|  |           |       | TM-SD-63    | TM-SD-64   | TM-SD-65    | TM-SD-66   | TM-SD-67  | TM-SD-67  |
|  |           |       | 4/17/2015   | 8/13/2015  | 4/20/2015   | 8/13/2015  | 4/20/2015 | 8/13/2015 |
|  |           |       | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite |
| Sample Location and Depth  |           |       | South 0-12" | South 5-6' | North 0-12" | North 6-7' | 0-12"     | 5-7'      |
| Compound   | PAL       | Units |             |            |             |            |           |           |
| <b>VOC</b>   |           |       |             |            |             |            |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 UJ    | 1.03 U     |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 1.14 U      | 2.87 UJ    | 1.34 U      | 2.06 U     |           |           |
| 2-Hexanone   | 1300      | mg/kg | 1.14 UJ     | 2.87 UJ    | 1.34 U      | 2.06 U     |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 1.14 U      | 2.87 UJ    | 1.34 U      | 2.06 U     |           |           |
| Acetone  | 670000    | mg/kg | 1.14 UJ     | 2.87 UJ    | 1.34 U      | 2.06 U     |           |           |
| Benzene  | 5.1       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 0.346 J    |           |           |
| Bromoform  | 86        | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Chlorobenzene  | 1300      | mg/kg | 3.3         | 2.21 J     | 0.671 U     | 2.3        |           |           |
| Chloroethane   | 57000     | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Chloroform   | 1.4       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.569 UJ    | 1.44 UJ    | 0.671 UJ    | 1.03 U     |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Toluene  | 47000     | mg/kg | 0.569 U     | 0.831 J    | 0.671 U     | 1.03 U     |           |           |
| Trichloroethene  | 6         | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| Xylene (Total)   | 2800      | mg/kg | 2.08        | 4.91 J     | 2.01 U      | 0.908 J    |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.569 U     | 1.44 UJ    | 0.671 U     | 1.03 U     |           |           |
| <b>Metals</b>  |           |       |             |            |             |            |           |           |
| Antimony   | 470.0     | mg/kg | 0.52 UJ     | 24 UJ      | 1.4 U       | 11.9 UJ    |           |           |
| Arsenic  | 3.0       | mg/kg | 24.6        | 132 J      | 9.6         | 20.7       |           |           |
| Barium   | 220,000.0 | mg/kg | 166         | 783 J      | 36.6        | 98.5       |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.075 B     | 0.15 B     | 0.097 B     | 0.068 B    |           |           |
| Cadmium  | 980.0     | mg/kg | 0.16 B      | 3.4 J      | 0.58 J      | 3.3 J      |           |           |
| Chromium   | 120,000.0 | mg/kg | 3190        | 15000 J    | 1240        | 3720       |           |           |
| Cobalt   | 350.0     | mg/kg | 12.1        | 9 J        | 14.8        | 14.5       |           |           |
| Copper   | 47,000.0  | mg/kg | 263         | 604 J      | 220         | 351 J      |           |           |
| Lead   | 800.0     | mg/kg | 59.1 J+     | 364 J      | 53.9        | 108 J      |           |           |
| Nickel   | 22,000.0  | mg/kg | 141         | 132 J      | 150         | 170 J      |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.9         | 5 J        | 1.8 U       | 3.4 J      |           |           |
| Silver   | 5,800.0   | mg/kg | 8.9         | 20.9 J     | 7.6         | 8.8        |           |           |
| Thallium   | 12.0      | mg/kg | 1.7 U       | 8 UJ       | 4.6 U       | 4 U        |           |           |
| Tin  | 700,000.0 | mg/kg | 2880 J+     | 39400 J    | 1120        | 3620 J     |           |           |
| Vanadium   | 5,800.0   | mg/kg | 31.8        | 64.8 J     | 35.8        | 28.2       |           |           |
| Zinc   | 350,000.0 | mg/kg | 284         | 709 J      | 635         | 915 J      |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.6 R       | 4.9 UJ     | 3.1 R       | 2.2 UJ     |           |           |
| Mercury  | 350.0     | mg/kg | 0.3 J-      | 0.97 J     | 0.29 J      | 0.37       |           |           |
| <b>PCB</b>   |           |       |             |            |             |            |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |            |             | 5.13 U     | 5 U       |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |            |             | 5.13 U     | 5 U       |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |            |             | 5.13 U     | 5 U       |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |            |             | 5.13 U     | 5 U       |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |            |             | 5.13 U     | 5 U       |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |            |             | 5.13 U     | 2.96 J    |           |
| <b>Cyanide</b>   |           |       |             |            |             |            |           |           |
| Cyanide  | 150       | mg/kg |             |            |             | 4.9 J-     | 9.1       |           |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.



**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 13 |            |             |            |           |           |
|--|-------------|------------|-------------|------------|-----------|-----------|
|  | TM-SD-63    | TM-SD-64   | TM-SD-65    | TM-SD-66   | TM-SD-67  | TM-SD-67  |
|  | 4/17/2015   | 8/13/2015  | 4/20/2015   | 8/13/2015  | 4/20/2015 | 8/13/2015 |
|  | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite |
|  | South 0-12" | South 5-6' | North 0-12" | North 6-7' | 0-12"     | 5-7'      |
| Compound   | PAL         | Units      |             |            |           |           |
| <b>SVOC</b>  |             |            |             |            |           |           |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 1,2-Dichlorobenzene  | 9300        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 1,3-Dichlorobenzene  |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 1,4-Dichlorobenzene  | 11          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2,4,6-Trichlorophenol  | 210         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2,4-Dichlorophenol   | 2500        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2,4-Dimethylphenol   | 16000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2,4-Dinitrophenol  | 1600        | mg/kg      |             |            | 11200 RR  | 173 RR    |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2-Chloronaphthalene  | 60000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2-Chlorophenol   | 5800        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2-Methylnaphthalene  | 3000        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 2-Nitrophenol  |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg      |             |            | 11200 U   | 173 RR    |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg      |             |            | 22500 U   | 34.7 RR   |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg      |             |            | 4500 U    | 69.3 RR   |
| 4-Bromophenylphenyl ether  |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg      |             |            | 4500 U    | 69.3 RR   |
| 4-Chlorophenylphenyl ether   |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| 4-Nitrophenol  |             | mg/kg      |             |            | 11200 U   | 173 RR    |
| Acenaphthene   | 45000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Acenaphthylene   | 45000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Anthracene   | 230000      | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Benzo(a)anthracene   | 21          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Benzo(a)pyrene   | 2.1         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Benzo(b)fluoranthene   | 21          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Benzo(g,h,i)perylene   |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Benzo(k)fluoranthene   | 210         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Butylbenzylphthalate   | 1200        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Di-n-butylphthalate  | 82000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Di-n-octylphthalate  | 8200        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Diethylphthalate   | 660000      | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Dimethylphthalate  |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Fluoranthene   | 30000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Fluorene   | 30000       | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Hexachlorobenzene  | 0.96        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Hexachloroethane   | 8           | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Isophorone   | 2400        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Naphthalene  | 17          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Nitrobenzene   | 22          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Pentachloroethane  | 36          | mg/kg      |             |            | 4500 U    | 69.3 RR   |
| Pentachlorophenol  | 4           | mg/kg      |             |            | 11200 U   | 173 RR    |
| Phenanthrene   |             | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| Phenol   | 250000      | mg/kg      |             |            | 2250 RR   | 34.7 RR   |
| Pyrene   | 23000       | mg/kg      |             |            | 2250 RR   | 34.7 RR   |
| Pyridine   | 1200        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| bis(2-Chloroethyl) ether   | 1           | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg      |             |            | 2250 U    | 34.7 RR   |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg      |             |            | 2250 RR   | 34.7 RR   |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 14 |            |             |              |           |           |
|--|-----------|-------|-------------|------------|-------------|--------------|-----------|-----------|
|  |           |       | TM-SD-68    | TM-SD-69   | TM-SD-70    | TM-SD-71     | TM-SD-72  | TM-SD-72  |
|  |           |       | 4/17/2015   | 8/13/2015  | 4/17/2015   | 8/13/2015    | 4/17/2015 | 8/13/2015 |
|  |           |       | Discrete    | Discrete   | Discrete    | Discrete     | Composite | Composite |
| Sample Location and Depth  |           |       | South 0-12" | South 5-6' | North 0-12" | Inaccessible | 0-12"     | 5-6'      |
| Compound   | PAL       | Units |             |            |             |              |           |           |
| <b>VOC</b>   |           |       |             |            |             |              |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.861 UJ    | 0.614 U    | 0.57 U      |              |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 1.72 U      | 1.23 U     | 1.14 U      |              |           |           |
| 2-Hexanone   | 1300      | mg/kg | 1.72 U      | 1.23 U     | 1.14 UJ     |              |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 1.72 U      | 1.23 U     | 1.14 U      |              |           |           |
| Acetone  | 670000    | mg/kg | 1.72 U      | 1.23 U     | 1.14 UJ     |              |           |           |
| Benzene  | 5.1       | mg/kg | 0.861 U     | 0.318 J    | 4.59        |              |           |           |
| Bromoform  | 86        | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.861 U     | 0.236 J    | 0.57 U      |              |           |           |
| Chloroethane   | 57000     | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Chloroform   | 1.4       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.861 U     | 0.217 J    | 1.43        |              |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.861 UJ    | 0.614 U    | 0.57 UJ     |              |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Toluene  | 47000     | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Trichloroethene  | 6         | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| Xylene (Total)   | 2800      | mg/kg | 2.58 U      | 0.826 J    | 1.34 J      |              |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.861 U     | 0.614 U    | 0.57 U      |              |           |           |
| <b>Metals</b>  |           |       |             |            |             |              |           |           |
| Antimony   | 470.0     | mg/kg | 1.4 UJ      | 1 UJ       | 0.79 UJ     |              |           |           |
| Arsenic  | 3.0       | mg/kg | 18.1        | 26.6       | 6           |              |           |           |
| Barium   | 220,000.0 | mg/kg | 80.5        | 145        | 34.8        |              |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.47 U      | 0.35 U     | 0.08 B      |              |           |           |
| Cadmium  | 980.0     | mg/kg | 0.93        | 1.1 J      | 0.64        |              |           |           |
| Chromium   | 120,000.0 | mg/kg | 1940        | 2460       | 617         |              |           |           |
| Cobalt   | 350.0     | mg/kg | 9.4         | 6.9        | 11.2        |              |           |           |
| Copper   | 47,000.0  | mg/kg | 235         | 193 J      | 198         |              |           |           |
| Lead   | 800.0     | mg/kg | 99.1 J+     | 90.7 J     | 66.3 J+     |              |           |           |
| Nickel   | 22,000.0  | mg/kg | 108         | 73.4 J     | 113         |              |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.9 U       | 2.5 J      | 1.3         |              |           |           |
| Silver   | 5,800.0   | mg/kg | 7           | 5.9        | 6           |              |           |           |
| Thallium   | 12.0      | mg/kg | 4.7 U       | 3.5 U      | 2.6 U       |              |           |           |
| Tin  | 700,000.0 | mg/kg | 2830 J+     | 6280 J     | 1070 J+     |              |           |           |
| Vanadium   | 5,800.0   | mg/kg | 53.6        | 29.7       | 34.2        |              |           |           |
| Zinc   | 350,000.0 | mg/kg | 1270        | 342 J      | 1030        |              |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 2.9 R       | 1.7 UJ     | 2 R         |              |           |           |
| Mercury  | 350.0     | mg/kg | 0.51 J-     | 0.041 J    | 0.25 J-     |              |           |           |
| <b>PCB</b>   |           |       |             |            |             |              |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |            |             | 5.59 U       | 7.45 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |            |             | 5.59 U       | 7.45 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |            |             | 5.59 U       | 7.45 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |            |             | 5.59 U       | 7.45 U    |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |            |             | 5.59 U       | 7.45 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |            |             | 5.59 U       | 7.45 U    |           |
| <b>Cyanide</b>   |           |       |             |            |             |              |           |           |
| Cyanide  | 150       | mg/kg |             |            |             | 1.8 J-       | 4.1       |           |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 14 |           |             |            |             |              |          |         |
|--|-------------|-----------|-------------|------------|-------------|--------------|----------|---------|
|  | TM-SD-68    | TM-SD-69  | TM-SD-70    | TM-SD-71   | TM-SD-72    | TM-SD-72     |          |         |
|  | 4/17/2015   | 8/13/2015 | 4/17/2015   | 8/13/2015  | 4/17/2015   | 8/13/2015    |          |         |
|  | Discrete    | Discrete  | Discrete    | Discrete   | Composite   | Composite    |          |         |
| Compound   | PAL         | Units     | South 0-12" | South 5-6' | North 0-12" | Inaccessible | 0-12"    | 5-6'    |
| <i>SVOC</i>  |             |           |             |            |             |              |          |         |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 1,2-Dichlorobenzene  | 9300        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 1,3-Dichlorobenzene  |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 1,4-Dichlorobenzene  | 11          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2,4,6-Trichlorophenol  | 210         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2,4-Dichlorophenol   | 2500        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2,4-Dimethylphenol   | 16000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2,4-Dinitrophenol  | 1600        | mg/kg     |             |            |             |              | 12900 RR | 130 RR  |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2-Chloronaphthalene  | 60000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2-Chlorophenol   | 5800        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2-Methylnaphthalene  | 3000        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 2-Nitrophenol  |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg     |             |            |             |              | 12900 RR | 130 RR  |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg     |             |            |             |              | 25700 RR | 260 RR  |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg     |             |            |             |              | 5150 RR  | 52.1 RR |
| 4-Bromophenylphenyl ether  |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg     |             |            |             |              | 5150 RR  | 52.1 RR |
| 4-Chlorophenylphenyl ether   |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| 4-Nitrophenol  |             | mg/kg     |             |            |             |              | 12900 RR | 130 RR  |
| Acenaphthene   | 45000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Acenaphthylene   | 45000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Anthracene   | 230000      | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Benzo(a)anthracene   | 21          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Benzo(a)pyrene   | 2.1         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Benzo(b)fluoranthene   | 21          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Benzo(g,h,i)perylene   |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Benzo(k)fluoranthene   | 210         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Butylbenzylphthalate   | 1200        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Di-n-butylphthalate  | 82000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Di-n-octylphthalate  | 8200        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Diethylphthalate   | 660000      | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Dimethylphthalate  |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Fluoranthene   | 30000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Fluorene   | 30000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Hexachlorobenzene  | 0.96        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Hexachloroethane   | 8           | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Isophorone   | 2400        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Naphthalene  | 17          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Nitrobenzene   | 22          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Pentachloroethane  | 36          | mg/kg     |             |            |             |              | 5150 RR  | 52.1 RR |
| Pentachlorophenol  | 4           | mg/kg     |             |            |             |              | 12900 RR | 130 RR  |
| Phenanthrene   |             | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Phenol   | 250000      | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Pyrene   | 23000       | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| Pyridine   | 1200        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| bis(2-Chloroethyl) ether   | 1           | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg     |             |            |             |              | 2570 RR  | 26 RR   |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 15 |            |             |            |           |           |
|--|-----------|-------|-------------|------------|-------------|------------|-----------|-----------|
|  |           |       | TM-SD-73    | TM-SD-74   | TM-SD-75    | TM-SD-76   | TM-SD-77  | TM-SD-77  |
|  |           |       | 4/17/2015   | 8/14/2015  | 4/17/2015   | 8/14/2015  | 4/17/2015 | 8/14/2015 |
|  |           |       | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite |
| Compound   | PAL       | Units | South 0-12" | South 5-6' | North 0-12" | North 3-4' | 0-12"     | 3-6'      |
| <b>VOC</b>   |           |       |             |            |             |            |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.786 U     | 1.12 R     | 0.82 U      | 0.657 R    |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.786 UJ    | 1.12 UJ    | 0.82 UJ     | 0.657 UJ   |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.786 U     | 1.12 UJ    | 0.82 U      | 0.657 UJ   |           |           |
| Acetone  | 670000    | mg/kg | 0.786 UJ    | 1.12 U     | 0.82 UJ     | 0.657 U    |           |           |
| Benzene  | 5.1       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Bromoform  | 86        | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Chlorobenzene  | 1300      | mg/kg | 1.96        | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Chloroethane   | 57000     | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Chloroform   | 1.4       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.393 UJ    | 0.562 UJ   | 0.41 UJ     | 0.328 UJ   |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Toluene  | 47000     | mg/kg | 0.393 U     | 0.756      | 0.41 U      | 0.328 U    |           |           |
| Trichloroethene  | 6         | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| Xylene (Total)   | 2800      | mg/kg | 1.18 U      | 3.26       | 1.23 U      | 0.985 U    |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.393 U     | 0.562 U    | 0.41 U      | 0.328 U    |           |           |
| <b>Metals</b>  |           |       |             |            |             |            |           |           |
| Antimony   | 470.0     | mg/kg | 0.67 UJ     | 1.4 U      | 7.9 J-      | 11.4 U     |           |           |
| Arsenic  | 3.0       | mg/kg | 10.8        | 24.1       | 8.8         | 27.6       |           |           |
| Barium   | 220,000.0 | mg/kg | 44.4        | 266        | 35.6        | 182        |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.096 B     | 0.21 J     | 0.088 B     | 0.73       |           |           |
| Cadmium  | 980.0     | mg/kg | 0.69        | 2.2        | 0.95        | 4.5        |           |           |
| Chromium   | 120,000.0 | mg/kg | 898         | 7120       | 901         | 1990       |           |           |
| Cobalt   | 350.0     | mg/kg | 13.9        | 9.6        | 12.1        | 16         |           |           |
| Copper   | 47,000.0  | mg/kg | 250         | 382        | 203         | 293        |           |           |
| Lead   | 800.0     | mg/kg | 88.8 J+     | 268 J      | 81.4 J+     | 475 J      |           |           |
| Nickel   | 22,000.0  | mg/kg | 133         | 124        | 123         | 59.2       |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.7         | 4.6        | 1.7         | 3.4        |           |           |
| Silver   | 5,800.0   | mg/kg | 8           | 12.7       | 2.4         | 7.1        |           |           |
| Thallium   | 12.0      | mg/kg | 2.2 U       | 4.5 U      | 2.7 U       | 3.8 U      |           |           |
| Tin  | 700,000.0 | mg/kg | 1230 J+     | 4560       | 1500 J+     | 5260       |           |           |
| Vanadium   | 5,800.0   | mg/kg | 47.1        | 49.5       | 46.2        | 133        |           |           |
| Zinc   | 350,000.0 | mg/kg | 1060        | 858        | 1270        | 1480       |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.6 R       | 2.7 UJ     | 1.8 R       | 2.2 UJ     |           |           |
| Mercury  | 350.0     | mg/kg | 0.18 J-     | 0.72 J-    | 0.25 J-     | 0.5 J-     |           |           |
| <b>PCB</b>   |           |       |             |            |             |            |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |            |             | 3.21 U     | 2.39 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |            |             | 3.21 U     | 2.39 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |            |             | 3.21 U     | 2.39 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |            |             | 3.21 U     | 3.29 J    |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |            |             | 3.21 U     | 2.39 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |            |             | 3.21 U     | 2.79 J    |           |
| <b>Cyanide</b>   |           |       |             |            |             |            |           |           |
| Cyanide  | 150       | mg/kg |             |            |             | 2.9 J-     | 4.5 J     |           |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 15 |            |             |            |           |           |
|--|-------------|------------|-------------|------------|-----------|-----------|
|  | TM-SD-73    | TM-SD-74   | TM-SD-75    | TM-SD-76   | TM-SD-77  | TM-SD-77  |
|  | 4/17/2015   | 8/14/2015  | 4/17/2015   | 8/14/2015  | 4/17/2015 | 8/14/2015 |
|  | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite |
|  | South 0-12" | South 5-6' | North 0-12" | North 3-4' | 0-12"     | 3-6'      |
| Compound   | PAL         | Units      |             |            |           |           |
| <b>SVOC</b>  |             |            |             |            |           |           |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 1,2-Dichlorobenzene  | 9300        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 1,3-Dichlorobenzene  |             | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 1,4-Dichlorobenzene  | 11          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2,4,6-Trichlorophenol  | 210         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2,4-Dichlorophenol   | 2500        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2,4-Dimethylphenol   | 16000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2,4-Dinitrophenol  | 1600        | mg/kg      |             |            | 789 RR    | 16.5 RR   |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2-Chloronaphthalene  | 60000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2-Chlorophenol   | 5800        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2-Methylnaphthalene  | 3000        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 2-Nitrophenol  |             | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg      |             |            | 789 RR    | 16.5 RR   |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg      |             |            | 1580 RR   | 33 RR     |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg      |             |            | 315 RR    | 6.6 RR    |
| 4-Bromophenylphenyl ether  |             | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg      |             |            | 315 RR    | 6.6 RR    |
| 4-Chlorophenylphenyl ether   |             | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| 4-Nitrophenol  |             | mg/kg      |             |            | 789 RR    | 16.5 RR   |
| Acenaphthene   | 45000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Acenaphthylene   | 45000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Anthracene   | 230000      | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Benzo(a)anthracene   | 21          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Benzo(a)pyrene   | 2.1         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Benzo(b)fluoranthene   | 21          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Benzo(g,h,i)perylene   |             | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Benzo(k)fluoranthene   | 210         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Butylbenzylphthalate   | 1200        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Di-n-butylphthalate  | 82000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Di-n-octylphthalate  | 8200        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Diethylphthalate   | 660000      | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Dimethylphthalate  |             | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Fluoranthene   | 30000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Fluorene   | 30000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Hexachlorobenzene  | 0.96        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Hexachloroethane   | 8           | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Isophorone   | 2400        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Naphthalene  | 17          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Nitrobenzene   | 22          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Pentachloroethane  | 36          | mg/kg      |             |            | 315 RR    | 6.6 RR    |
| Pentachlorophenol  | 4           | mg/kg      |             |            | 789 RR    | 16.5 RR   |
| Phenanthrene   |             | mg/kg      |             |            | 158 RR    | 0.91 RR   |
| Phenol   | 250000      | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Pyrene   | 23000       | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| Pyridine   | 1200        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| bis(2-Chloroethyl) ether   | 1           | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg      |             |            | 158 RR    | 3.3 RR    |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg      |             |            | 158 RR    | 3.3 RR    |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth |           |       | Transect 16 |                |             |            |           |           |
|--|-----------|-------|-------------|----------------|-------------|------------|-----------|-----------|
|  |           |       | TM-SD-79    | TM-SD-80       | TM-SD-81    | TM-SD-82   | TM-SD-83  | TM-SD-83  |
|  |           |       | 4/17/2015   | 8/14/2015      | 4/17/2015   | 8/14/2015  | 4/17/2015 | 8/14/2015 |
|  |           |       | Discrete    | Discrete       | Discrete    | Discrete   | Composite | Composite |
| Compound   | PAL       | Units | South 0-12" | South 5.5-6.5' | North 0-12" | North 5-6' | 0-12"     | 5-6.5'    |
| <b>VOC</b>   |           |       |             |                |             |            |           |           |
| 1,1,1,2-Tetrachloroethane  | 8.8       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| 1,1,1-Trichloroethane  | 36000     | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| 1,1,2,2-Tetrachloroethane  | 2.7       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| 1,1,2-Trichloroethane  | 5         | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| 1,1-Dichloroethane   | 16        | mg/kg | 0.488 U     | 0.342 UJ       | 0.3 U       | 0.337 U    |           |           |
| 1,1-Dichloroethene   | 1000      | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| 1,2-Dichloroethane   | 2         | mg/kg | 0.488 U     | 0.342 U        | 0.3 UJ      | 0.337 U    |           |           |
| 1,2-Dichloropropane  | 4.4       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| 2-Butanone (MEK)   | 190000    | mg/kg | 0.976 U     | 0.684 R        | 0.6 U       | 0.673 R    |           |           |
| 2-Hexanone   | 1300      | mg/kg | 0.976 UJ    | 0.684 UJ       | 0.6 U       | 0.673 UJ   |           |           |
| 4-Methyl-2-pentanone (MIBK)  | 56000     | mg/kg | 0.976 U     | 0.684 UJ       | 0.6 U       | 0.673 UJ   |           |           |
| Acetone  | 670000    | mg/kg | 0.976 UJ    | 0.684 UJ       | 0.6 U       | 0.673 U    |           |           |
| Benzene  | 5.1       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Bromoform  | 86        | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Carbon disulfide   | 3500      | mg/kg | 0.488 U     | 0.342 UJ       | 0.3 U       | 0.337 U    |           |           |
| Carbon tetrachloride   | 2.9       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Chlorobenzene  | 1300      | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Chloroethane   | 57000     | mg/kg | 0.488 U     | 0.342 UJ       | 0.3 U       | 0.337 U    |           |           |
| Chloroform   | 1.4       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Ethylbenzene   | 25        | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Methylene Chloride   | 1000      | mg/kg | 0.488 UJ    | 0.342 UJ       | 0.3 UJ      | 0.337 UJ   |           |           |
| Tetrachloroethene  | 100       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Toluene  | 47000     | mg/kg | 0.488 U     | 21.8           | 0.3 U       | 0.721      |           |           |
| Trichloroethene  | 6         | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Vinyl chloride   | 1.7       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| Xylene (Total)   | 2800      | mg/kg | 1.46 U      | 1.03 U         | 0.899 U     | 1.01 U     |           |           |
| cis-1,3-Dichloropropene  | 8.2       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| trans-1,2-Dichloroethene   | 23000     | mg/kg | 0.488 U     | 0.342 UJ       | 0.3 U       | 0.337 U    |           |           |
| trans-1,3-Dichloropropene  | 8.2       | mg/kg | 0.488 U     | 0.342 U        | 0.3 U       | 0.337 U    |           |           |
| <b>Metals</b>  |           |       |             |                |             |            |           |           |
| Antimony   | 470.0     | mg/kg | 0.65 UJ     | 8.1 U          | 1.1 UJ      | 5.1 U      |           |           |
| Arsenic  | 3.0       | mg/kg | 12          | 22.9           | 8.6         | 14.1       |           |           |
| Barium   | 220,000.0 | mg/kg | 112         | 55             | 83.7        | 17.5       |           |           |
| Beryllium  | 2,300.0   | mg/kg | 0.13 B      | 0.093 B        | 0.32        | 0.069 B    |           |           |
| Cadmium  | 980.0     | mg/kg | 5           | 2.4            | 2.4         | 2          |           |           |
| Chromium   | 120,000.0 | mg/kg | 384         | 5980           | 615         | 5280       |           |           |
| Cobalt   | 350.0     | mg/kg | 12.6        | 16.9           | 7.8         | 19.1       |           |           |
| Copper   | 47,000.0  | mg/kg | 188         | 239            | 119         | 214        |           |           |
| Lead   | 800.0     | mg/kg | 260 J+      | 148 J          | 122 J+      | 113 J      |           |           |
| Nickel   | 22,000.0  | mg/kg | 122         | 508            | 67          | 322        |           |           |
| Selenium   | 5,800.0   | mg/kg | 1.5         | 2.5            | 1.6         | 2.8        |           |           |
| Silver   | 5,800.0   | mg/kg | 8           | 11             | 4.2         | 6.1        |           |           |
| Thallium   | 12.0      | mg/kg | 2.2 U       | 2.7 U          | 1.9 U       | 1.7 U      |           |           |
| Tin  | 700,000.0 | mg/kg | 478 J+      | 2740           | 303 J+      | 309        |           |           |
| Vanadium   | 5,800.0   | mg/kg | 62.4        | 41.2           | 175         | 69.1       |           |           |
| Zinc   | 350,000.0 | mg/kg | 5080        | 2530           | 2310        | 1040       |           |           |
| Chromium, Hexavalent   | 6.3       | mg/kg | 1.7 R       | 1.5 UJ         | 1.5 R       | 1.5 UJ     |           |           |
| Mercury  | 350.0     | mg/kg | 0.21 J-     | 0.25 J-        | 0.15        | 0.068 J-   |           |           |
| <b>PCB</b>   |           |       |             |                |             |            |           |           |
| PCB-1016 (Aroclor 1016)  | 27        | mg/kg |             |                |             | 4.02 U     | 1.61 U    |           |
| PCB-1221 (Aroclor 1221)  | 0.72      | mg/kg |             |                |             | 4.02 U     | 1.61 U    |           |
| PCB-1232 (Aroclor 1232)  | 0.72      | mg/kg |             |                |             | 4.02 U     | 1.61 U    |           |
| PCB-1242 (Aroclor 1242)  | 0.97      | mg/kg |             |                |             | 4.02 U     | 2.8 J     |           |
| PCB-1248 (Aroclor 1248)  | 0.94      | mg/kg |             |                |             | 4.02 U     | 1.61 U    |           |
| PCB-1254 (Aroclor 1254)  | 0.97      | mg/kg |             |                |             | 4.02 U     | 1.2 J     |           |
| <b>Cyanide</b>   |           |       |             |                |             |            |           |           |
| Cyanide  | 150       | mg/kg |             |                |             | 2.5 J-     | 5 J       |           |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 16 |                |             |            |           |           |
|--|-------------|----------------|-------------|------------|-----------|-----------|
|  | TM-SD-79    | TM-SD-80       | TM-SD-81    | TM-SD-82   | TM-SD-83  | TM-SD-83  |
|  | 4/17/2015   | 8/14/2015      | 4/17/2015   | 8/14/2015  | 4/17/2015 | 8/14/2015 |
|  | Discrete    | Discrete       | Discrete    | Discrete   | Composite | Composite |
|  | South 0-12" | South 5.5-6.5' | North 0-12" | North 5-6' | 0-12"     | 5-6.5'    |
| Compound   | PAL         | Units          |             |            |           |           |
| <b>SVOC</b>  |             |                |             |            |           |           |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 1,2-Dichlorobenzene  | 9300        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 1,3-Dichlorobenzene  |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 1,4-Dichlorobenzene  | 11          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2,4,6-Trichlorophenol  | 210         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2,4-Dichlorophenol   | 2500        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2,4-Dimethylphenol   | 16000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2,4-Dinitrophenol  | 1600        | mg/kg          |             |            | 830 RR    | 16.5 RR   |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2-Chloronaphthalene  | 60000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2-Chlorophenol   | 5800        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2-Methylnaphthalene  | 3000        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 2-Nitrophenol  |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg          |             |            | 830 RR    | 16.5 RR   |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg          |             |            | 1660 RR   | 33 RR     |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg          |             |            | 332 RR    | 6.6 RR    |
| 4-Bromophenylphenyl ether  |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg          |             |            | 332 RR    | 6.6 RR    |
| 4-Chlorophenylphenyl ether   |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| 4-Nitrophenol  |             | mg/kg          |             |            | 830 RR    | 16.5 RR   |
| Acenaphthene   | 45000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Acenaphthylene   | 45000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Anthracene   | 230000      | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Benzo(a)anthracene   | 21          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Benzo(a)pyrene   | 2.1         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Benzo(b)fluoranthene   | 21          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Benzo(g,h,i)perylene   |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Benzo(k)fluoranthene   | 210         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Butylbenzylphthalate   | 1200        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Di-n-butylphthalate  | 82000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Di-n-octylphthalate  | 8200        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Diethylphthalate   | 660000      | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Dimethylphthalate  |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Fluoranthene   | 30000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Fluorene   | 30000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Hexachlorobenzene  | 0.96        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Hexachloroethane   | 8           | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Isophorone   | 2400        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Naphthalene  | 17          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Nitrobenzene   | 22          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Pentachloroethane  | 36          | mg/kg          |             |            | 332 RR    | 6.6 RR    |
| Pentachlorophenol  | 4           | mg/kg          |             |            | 830 RR    | 16.5 RR   |
| Phenanthrene   |             | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Phenol   | 250000      | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Pyrene   | 23000       | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| Pyridine   | 1200        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| bis(2-Chloroethyl) ether   | 1           | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg          |             |            | 166 RR    | 3.3 RR    |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg          |             |            | 166 RR    | 3.3 RR    |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

**Table 1 - Analytical Sample Results  
Samples Collected April/August 2015**

| Sample Identification       | Transect 17 |            |             |            |           |            |
|-----------------------------|-------------|------------|-------------|------------|-----------|------------|
|                             | TM-SD-84    | TM-SD-85   | TM-SD-86    | TM-SD-87   | TM-SD-88  | TM-SD-88   |
|                             | 4/20/2015   | xx/xx/xxxx | 4/20/2015   | xx/xx/xxxx | 4/20/2015 | xx/xx/xxxx |
|                             | Discrete    | Discrete   | Discrete    | Discrete   | Composite | Composite  |
| Sample Location and Depth   | South 0-12" | -----      | North 0-12" | -----      | 0-12"     | -----      |
| Compound                    | PAL         | Units      |             |            |           |            |
| <b>VOC</b>                  |             |            |             |            |           |            |
| 1,1,1,2-Tetrachloroethane   | 8.8         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 1,1,1-Trichloroethane       | 36000       | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 1,1,2,2-Tetrachloroethane   | 2.7         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 1,1,2-Trichloroethane       | 5           | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 1,1-Dichloroethane          | 16          | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 1,1-Dichloroethene          | 1000        | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 1,2-Dichloroethane          | 2           | mg/kg      | 0.383 U     | 0.44 UJ    |           |            |
| 1,2-Dichloropropane         | 4.4         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| 2-Butanone (MEK)            | 190000      | mg/kg      | 0.765 U     | 0.88 U     |           |            |
| 2-Hexanone                  | 1300        | mg/kg      | 0.765 UJ    | 0.88 U     |           |            |
| 4-Methyl-2-pentanone (MIBK) | 56000       | mg/kg      | 0.765 U     | 0.88 U     |           |            |
| Acetone                     | 670000      | mg/kg      | 0.765 UJ    | 0.88 U     |           |            |
| Benzene                     | 5.1         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Bromoform                   | 86          | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Carbon disulfide            | 3500        | mg/kg      | 0.383 U     | 0.506      |           |            |
| Carbon tetrachloride        | 2.9         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Chlorobenzene               | 1300        | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Chloroethane                | 57000       | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Chloroform                  | 1.4         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Ethylbenzene                | 25          | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Methylene Chloride          | 1000        | mg/kg      | 0.383 UJ    | 0.44 UJ    |           |            |
| Tetrachloroethene           | 100         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Toluene                     | 47000       | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Trichloroethene             | 6           | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Vinyl chloride              | 1.7         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| Xylene (Total)              | 2800        | mg/kg      | 1.74        | 0.578 J    |           |            |
| cis-1,3-Dichloropropene     | 8.2         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| trans-1,2-Dichloroethene    | 23000       | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| trans-1,3-Dichloropropene   | 8.2         | mg/kg      | 0.383 U     | 0.44 U     |           |            |
| <b>Metals</b>               |             |            |             |            |           |            |
| Antimony                    | 470.0       | mg/kg      | 0.59 UJ     | 9.9 J-     |           |            |
| Arsenic                     | 3.0         | mg/kg      | 17.5        | 38.5       |           |            |
| Barium                      | 220,000.0   | mg/kg      | 173         | 661        |           |            |
| Beryllium                   | 2,300.0     | mg/kg      | 0.73        | 0.44       |           |            |
| Cadmium                     | 980.0       | mg/kg      | 4.3         | 9.5        |           |            |
| Chromium                    | 120,000.0   | mg/kg      | 1000        | 588        |           |            |
| Cobalt                      | 350.0       | mg/kg      | 12.5        | 27.3       |           |            |
| Copper                      | 47,000.0    | mg/kg      | 205         | 529        |           |            |
| Lead                        | 800.0       | mg/kg      | 311 J+      | 946 J+     |           |            |
| Nickel                      | 22,000.0    | mg/kg      | 337         | 264        |           |            |
| Selenium                    | 5,800.0     | mg/kg      | 3.1         | 2.1        |           |            |
| Silver                      | 5,800.0     | mg/kg      | 3.2         | 2.8        |           |            |
| Thallium                    | 12.0        | mg/kg      | 1.1 J       | 2 U        |           |            |
| Tin                         | 700,000.0   | mg/kg      | 480 J+      | 2420 J+    |           |            |
| Vanadium                    | 5,800.0     | mg/kg      | 133         | 109        |           |            |
| Zinc                        | 350,000.0   | mg/kg      | 3500        | 7870       |           |            |
| Chromium, Hexavalent        | 6.3         | mg/kg      | 1.6 R       | 1.5 R      |           |            |
| Mercury                     | 350.0       | mg/kg      | 0.43        | 0.23       |           |            |
| <b>PCB</b>                  |             |            |             |            |           |            |
| PCB-1016 (Aroclor 1016)     | 27          | mg/kg      |             |            | 3.57 U    |            |
| PCB-1221 (Aroclor 1221)     | 0.72        | mg/kg      |             |            | 3.57 U    |            |
| PCB-1232 (Aroclor 1232)     | 0.72        | mg/kg      |             |            | 3.57 U    |            |
| PCB-1242 (Aroclor 1242)     | 0.97        | mg/kg      |             |            | 3.57 U    |            |
| PCB-1248 (Aroclor 1248)     | 0.94        | mg/kg      |             |            | 3.57 U    |            |
| PCB-1254 (Aroclor 1254)     | 0.97        | mg/kg      |             |            | 3.57 U    |            |
| <b>Cyanide</b>              |             |            |             |            |           |            |
| Cyanide                     | 150         | mg/kg      |             |            | 1.2 J-    |            |

**Data Validation Qualifier Code**

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.



**Table 1 - Analytical Sample Results**  
**Samples Collected April/August 2015**

| Sample Identification<br>Sample Date<br>Sample Type<br>Sample Location and Depth | Transect 17 |            |             |            |             |            |
|--|-------------|------------|-------------|------------|-------------|------------|
|  | TM-SD-84    | TM-SD-85   | TM-SD-86    | TM-SD-87   | TM-SD-88    | TM-SD-88   |
|  | 4/20/2015   | xx/xx/xxxx | 4/20/2015   | xx/xx/xxxx | 4/20/2015   | xx/xx/xxxx |
|  | Discrete    | Discrete   | Discrete    | Discrete   | Composite   | Composite  |
| Compound   | PAL         | Units      | South 0-12" | -----      | North 0-12" | -----      |
| <b>SVOC</b>  |             |            |             |            |             |            |
| 1,2,4-Trichlorobenzene   | 110         | mg/kg      |             |            |             | 1540 RR    |
| 1,2-Dichlorobenzene  | 9300        | mg/kg      |             |            |             | 1540 RR    |
| 1,3-Dichlorobenzene  |             | mg/kg      |             |            |             | 1540 RR    |
| 1,4-Dichlorobenzene  | 11          | mg/kg      |             |            |             | 1540 RR    |
| 2,4,5-Trichlorophenol  | 82000       | mg/kg      |             |            |             | 1540 RR    |
| 2,4,6-Trichlorophenol  | 210         | mg/kg      |             |            |             | 1540 RR    |
| 2,4-Dichlorophenol   | 2500        | mg/kg      |             |            |             | 1540 RR    |
| 2,4-Dimethylphenol   | 16000       | mg/kg      |             |            |             | 1540 RR    |
| 2,4-Dinitrophenol  | 1600        | mg/kg      |             |            |             | 7720 RR    |
| 2,4-Dinitrotoluene   | 7.4         | mg/kg      |             |            |             | 1540 RR    |
| 2,6-Dinitrotoluene   | 1.5         | mg/kg      |             |            |             | 1540 RR    |
| 2-Chloronaphthalene  | 60000       | mg/kg      |             |            |             | 1540 RR    |
| 2-Chlorophenol   | 5800        | mg/kg      |             |            |             | 1540 RR    |
| 2-Methylnaphthalene  | 3000        | mg/kg      |             |            |             | 1540 RR    |
| 2-Methylphenol(o-Cresol)   | 41000       | mg/kg      |             |            |             | 1540 RR    |
| 2-Nitrophenol  |             | mg/kg      |             |            |             | 1540 RR    |
| 3&4-Methylphenol(m&p Cresol)   | 41000       | mg/kg      |             |            |             | 1540 RR    |
| 3,3'-Dichlorobenzidine   | 5.1         | mg/kg      |             |            |             | 7720 RR    |
| 3,3'-Dimethylbenzidine   | 0.21        | mg/kg      |             |            |             | 15400 RR   |
| 4,6-Dinitro-2-methylphenol   | 66          | mg/kg      |             |            |             | 3090 RR    |
| 4-Bromophenylphenyl ether  |             | mg/kg      |             |            |             | 1540 RR    |
| 4-Chloro-3-methylphenol  | 82000       | mg/kg      |             |            |             | 3090 RR    |
| 4-Chlorophenylphenyl ether   |             | mg/kg      |             |            |             | 1540 RR    |
| 4-Nitrophenol  |             | mg/kg      |             |            |             | 7720 RR    |
| Acenaphthene   | 45000       | mg/kg      |             |            |             | 1540 RR    |
| Acenaphthylene   | 45000       | mg/kg      |             |            |             | 1540 RR    |
| Anthracene   | 230000      | mg/kg      |             |            |             | 1540 RR    |
| Benzo(a)anthracene   | 21          | mg/kg      |             |            |             | 1540 RR    |
| Benzo(a)pyrene   | 2.1         | mg/kg      |             |            |             | 1540 RR    |
| Benzo(b)fluoranthene   | 21          | mg/kg      |             |            |             | 1540 RR    |
| Benzo(g,h,i)perylene   |             | mg/kg      |             |            |             | 1540 RR    |
| Benzo(k)fluoranthene   | 210         | mg/kg      |             |            |             | 1540 RR    |
| Butylbenzylphthalate   | 1200        | mg/kg      |             |            |             | 1540 RR    |
| Di-n-butylphthalate  | 82000       | mg/kg      |             |            |             | 1540 RR    |
| Di-n-octylphthalate  | 8200        | mg/kg      |             |            |             | 1540 RR    |
| Dibenz(a,h)anthracene  | 2.1         | mg/kg      |             |            |             | 1540 RR    |
| Diethylphthalate   | 660000      | mg/kg      |             |            |             | 1540 RR    |
| Dimethylphthalate  |             | mg/kg      |             |            |             | 1540 RR    |
| Fluoranthene   | 30000       | mg/kg      |             |            |             | 1540 RR    |
| Fluorene   | 30000       | mg/kg      |             |            |             | 1540 RR    |
| Hexachloro-1,3-butadiene   | 5.3         | mg/kg      |             |            |             | 1540 RR    |
| Hexachlorobenzene  | 0.96        | mg/kg      |             |            |             | 1540 RR    |
| Hexachlorocyclopentadiene  | 7.5         | mg/kg      |             |            |             | 1540 RR    |
| Hexachloroethane   | 8           | mg/kg      |             |            |             | 1540 RR    |
| Indeno(1,2,3-cd)pyrene   | 21          | mg/kg      |             |            |             | 1540 RR    |
| Isophorone   | 2400        | mg/kg      |             |            |             | 1540 RR    |
| Naphthalene  | 17          | mg/kg      |             |            |             | 1540 RR    |
| Nitrobenzene   | 22          | mg/kg      |             |            |             | 1540 RR    |
| Pentachloroethane  | 36          | mg/kg      |             |            |             | 3090 RR    |
| Pentachlorophenol  | 4           | mg/kg      |             |            |             | 7720 RR    |
| Phenanthrene   |             | mg/kg      |             |            |             | 1540 RR    |
| Phenol   | 250000      | mg/kg      |             |            |             | 1540 RR    |
| Pyrene   | 23000       | mg/kg      |             |            |             | 1540 RR    |
| Pyridine   | 1200        | mg/kg      |             |            |             | 1540 RR    |
| bis(2-Chloroethoxy)methane   | 2500        | mg/kg      |             |            |             | 1540 RR    |
| bis(2-Chloroethyl) ether   | 1           | mg/kg      |             |            |             | 1540 RR    |
| bis(2-Chloroisopropyl) ether   | 22          | mg/kg      |             |            |             | 1540 RR    |
| bis(2-Ethylhexyl)phthalate   | 160         | mg/kg      |             |            |             | 1540 RR    |

**Data Validation Qualifier Code**

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

**Table 2 - Sediment Characterization and Geotechnical Sample Results**

| Transects            | Width of Canal (feet) | Width of Sediment Horizon (feet) | SEDIMENT THICKNESS (feet) |       | DEPTH OF WATER (feet) |       | SEDIMENT DESCRIPTION   |  | Geotech Sample ID | Moisture Content (%) | Dry Density (pcf) |
|----------------------|-----------------------|----------------------------------|---------------------------|-------|-----------------------|-------|--|--|-------------------|----------------------|-------------------|
|                      |                       |                                  | D1                        | D2    | D1                    | D2    | D1   | D2   |                   |                      |                   |
| TRANSECT 1           | 48.00                 | 24.25                            | 0.17                      | 0.17  | 8.00                  | 11.00 | Dark black fine silt; oily/greasy; sludge-like. Low sample recovery due to thin sediment before refusal.   | Dark black fine silt; oily/greasy; sludge-like. Low sample recovery due to thin sediment before refusal.   | ---               | ---                  | ---               |
| TRANSECT 2           | 75.00                 | 42.50                            | >5.00                     | >5.00 | 0.50                  | 0.67  | Dark black fine silt. Oily/greasy. Sludge-like. Sample location is within reed mat; not cohesive enough to walk on - sample contained minor organic material from root system.       | Dark black fine silt; oily/greasy; sludge-like.  | ---               | ---                  | ---               |
| TRANSECT 3           | 78.00                 | 59.00                            | >5.00                     | >5.00 | 1.50                  | 1.50  | Dark black fine silt; oily/greasy; sludge-like.  | Dark black fine silt; oily/greasy; sludge-like.  | ---               | ---                  | ---               |
| TRANSECT 4           | 81.00                 | 51.00                            | >5.00                     | >5.00 | 0.83                  | 0.83  | Top 4" is black silt with some organic material (roots) in sample.. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.         | Top 4" is black silt with some organic material (roots) in sample.. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat. | ---               | ---                  | ---               |
| TRANSECT 5           | 84.00                 | 55.00                            | >5.00                     | >5.00 | 0.00                  | 0.50  | Top 5" black dry-ish silt. Sample is dark black fine silt; oily/greasy; sludge-like. Able to walk onto reed mat for sample collection.   | Top 5" black dry-ish silt. Sample is dark black fine silt; oily/greasy; sludge-like. Able to walk onto reed mat for sample collection.                                       | TM-SD-26          | 28.0                 | 109.3             |
| TRANSECT 6           | 88.00                 | 59.00                            | >5.00                     | >5.00 | 1.50                  | 0.17  | Top 5" black dry-ish silt. Sample is dark black fine silt; oily/greasy; sludge-like. Able to walk onto reed mat for sample collection.   | Top 5" black dry-ish silt. Sample is dark black fine silt; oily/greasy; sludge-like. Able to walk onto reed mat for sample collection.                                       | ---               | ---                  | ---               |
| TRANSECT 7           | 92.00                 | 57.00                            | >5.00                     | >5.00 | 2.00                  | 0.17  | Dark black fine silt; oily/greasy; sludge-like.  | Top 5" black dry-ish silt. Sample is dark black fine silt; oily/greasy; sludge-like. Able to walk onto reed mat for sample collection.                                       | ---               | ---                  | ---               |
| TRANSECT 8           | 88.00                 | 50.00                            | >5.00                     | >5.00 | 2.00                  | 0.50  | Dark black fine silt; oily/greasy; sludge-like. Shoreline is stained black (oil?). Just upstream from skimmer.   | Dark black fine silt; oily/greasy; sludge-like. Shoreline is stained black (oil?).   | ---               | ---                  | ---               |
| TRANSECT 9           | 90.00                 | 55.00                            | >5.00                     | >5.00 | 0.00                  | 0.00  | Top 5" black dry-ish silt. Sample is dark black fine silt; oily/greasy; sludge-like. Able to walk onto reed mat for sample collection. Sample contains minor organic matter - roots. | Dark black fine silt; oily/greasy; sludge-like.  | ---               | ---                  | ---               |
| TRANSECT 10          | 95.00                 | 71.00                            | >5.00                     | >5.00 | 0.17                  | 0.17  | Top 4" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.          | Dark black fine silt; oily/greasy; sludge-like.  | TM-SD-52          | 41.4                 | 76.8              |
| TRANSECT 11          | 95.00                 | 63.00                            | >5.00                     | >5.00 | 0.00                  | 0.00  | Top 6" is brown silt below which is dark black fine silt; oily/greasy; sludge-like. Able to walk out onto "mud mat" for sample collection.   | Top 3" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.  | ---               | ---                  | ---               |
| TRANSECT 12          | 105.00                | 60.00                            | >5.00                     | >5.00 | 2.00                  | 0.00  | Top 4" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.          | Top 4" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.  | ---               | ---                  | ---               |
| TRANSECT 13          | 95.00                 | 64.00                            | >5.00                     | >5.00 | 0.00                  | 0.17  | Top 5" is black silt below which is dark black fine silt; oily/greasy; sludge-like. Able to walk out onto "mud mat" for sample collection.   | Top 4" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.  | ---               | ---                  | ---               |
| TRANSECT 14          | 100.00                | 57.00                            | >5.00                     | >5.00 | 1.50                  | 1.00  | Top 5" is black silt below which is dark black fine silt; oily/greasy; sludge-like. Able to walk out onto "mud mat" for sample collection.   | Top 5" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.  | ---               | ---                  | ---               |
| TRANSECT 15          | 105.00                | 69.00                            | >5.00                     | >5.00 | 0.50                  | 0.50  | Top 4" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.          | Top 3" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.  | TM-SD-78          | 35.8                 | 77.5              |
| TRANSECT 16          | 98.00                 | 71.00                            | >5.00                     | >5.00 | 0.33                  | 2.50  | Top 4" is black silt with some organic material (roots) in sample. Sample is dark black fine silt; oily/greasy; sludge-like. Sample collected by walking out onto reed mat.          | Dark black fine silt; oily/greasy; sludge-like.  | ---               | ---                  | ---               |
| TRANSECT 17 (Lagoon) | 44.00                 | 13.00                            | >5.00                     | >5.00 | 0.33                  | 0.33  | Brown fine silt; sludge-like. Same consistency as other samples, but not oily/greasy.  | Brown fine silt; sludge-like. Same consistency as other samples, but not oily/greasy.  | ---               | ---                  | ---               |

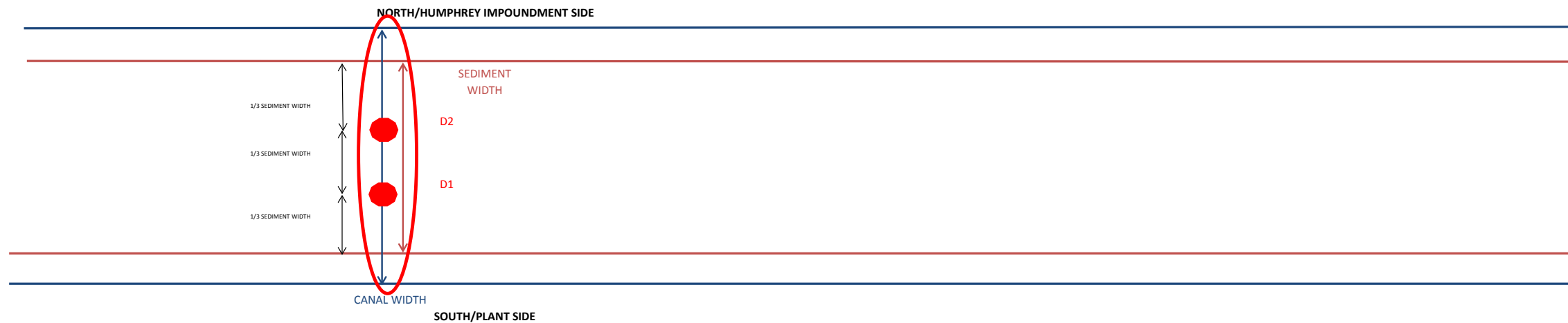


Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |       | Transect 1 |            |           | Transect 2  |            |             |            |
|----------------------------------|------------------|-------|------------|------------|-----------|-------------|------------|-------------|------------|
|                                  |                  |       | TM-SD-01   | TM-SD-03   | TM-SD-05  | TM-SD-06    | TM-SD-07   | TM-SD-08    | TM-SD-09   |
| Sample Identification            |                  |       | 4/14/2015  | 4/14/2015  | 4/14/2015 | 4/14/2015   | 4/14/2015  | 4/14/2015   | 4/14/2015  |
| Sample Date                      |                  |       | Discrete   | Discrete   | Composite | Discrete    | Discrete   | Discrete    | Discrete   |
| Sample Type                      |                  |       | South 0-6" | North 0-6" | 0-6"      | South 0-12" | South 4-5' | North 0-12" | North 4-5' |
| Sample Location and Depth        |                  |       |            |            |           |             |            |             |            |
| Compound                         | Regulatory Level | Units |            |            |           |             |            |             |            |
| <b>TCLP VOC</b>                  |                  |       |            |            |           |             |            |             |            |
| 1,1-Dichloroethene               | 0.7              | mg/L  | 0.05 U     | 0.05 U     |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |
| 1,2-Dichloroethane               | 0.5              | mg/L  | 0.05 U     | 0.05 U     |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |
| 2-Butanone (MEK)                 | 200.0            | mg/L  | 5 U        | 5 U        |           | 5 U         | 0.0317 J   | 5 U         | 5 U        |
| Benzene                          | 0.5              | mg/L  | 0.05 U     | 0.05 U     |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |
| Carbon tetrachloride             | 0.5              | mg/L  | 0.05 UJ    | 0.05 UJ    |           | 0.05 UJ     | 0.05 UJ    | 0.05 UJ     | 0.05 UJ    |
| Chlorobenzene                    | 100.0            | mg/L  | 0.0064 J   | 1 U        |           | 1 U         | 1 U        | 1 U         | 1 U        |
| Chloroform                       | 6.0              | mg/L  | 0.0038 J   | 0.0042 J   |           | 0.0037 J    | 0.0053 B   | 0.0034 J    | 0.0052 B   |
| Tetrachloroethene                | 0.7              | mg/L  | 0.05 U     | 0.05 U     |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |
| Trichloroethene                  | 0.5              | mg/L  | 0.05 U     | 0.05 U     |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |
| Vinyl chloride                   | 0.2              | mg/L  | 0.05 U     | 0.05 U     |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |
| <b>TCLP Metals</b>               |                  |       |            |            |           |             |            |             |            |
| Arsenic                          | 5.0              | mg/L  |            |            | 0.01 J    |             |            |             | 0.012 J    |
| Barium                           | 100.0            | mg/L  |            |            | 0.45 J    |             |            |             | 2.1        |
| Cadmium                          | 1.0              | mg/L  |            |            | 0.00079 J |             |            |             | 0.00087 J  |
| Chromium                         | 5.0              | mg/L  |            |            | 0.0023 J  |             |            |             | 0.0016 J   |
| Lead                             | 5.0              | mg/L  |            |            | 0.05 U    |             |            |             | 0.05 U     |
| Selenium                         | 1.0              | mg/L  |            |            | 0.013 J   |             |            |             | 0.015 J    |
| Silver                           | 5.0              | mg/L  |            |            | 0.0022 J  |             |            |             | 0.001 J    |
| Mercury                          | 0.2              | mg/L  |            |            | 0.001 U   |             |            |             | 0.001 U    |
| <b>TCLP SVOC</b>                 |                  |       |            |            |           |             |            |             |            |
| 1,4-Dichlorobenzene              | 7.5              | mg/L  |            |            | 0.5 RR    |             |            |             | 0.5 RR     |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L  |            |            | 5 RR      |             |            |             | 5 RR       |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L  |            |            | 0.1 RR    |             |            |             | 0.1 RR     |
| 2,4-Dinitrotoluene               | 0.13             | mg/L  |            |            | 0.1 RR    |             |            |             | 0.1 RR     |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L  |            |            | 2 RR      |             |            |             | 2 RR       |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L  |            |            | 2 RR      |             |            |             | 2 RR       |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L  |            |            | 0.1 RR    |             |            |             | 0.1 RR     |
| Hexachlorobenzene                | 0.13             | mg/L  |            |            | 0.1 RR    |             |            |             | 0.1 RR     |
| Hexachloroethane                 | 3.0              | mg/L  |            |            | 0.5 RR    |             |            |             | 0.5 RR     |
| Nitrobenzene                     | 2.0              | mg/L  |            |            | 0.1 RR    |             |            |             | 0.1 RR     |
| Pentachlorophenol                | 100.0            | mg/L  |            |            | 5 RR      |             |            |             | 5 RR       |
| Pyridine                         | 5.0              | mg/L  |            |            | 0.5 RR    |             |            |             | 0.5 RR     |

Data Validation Qualifier Code

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |             | Transect 3 |             |           |                           |           |             | Transect 4 |             |            |            |           |           |             |            |             |            |          |           |
|----------------------------------|------------------|-------------|------------|-------------|-----------|---------------------------|-----------|-------------|------------|-------------|------------|------------|-----------|-----------|-------------|------------|-------------|------------|----------|-----------|
|                                  |                  |             | TM-SD-11   | TM-SD-12    | TM-SD-13  | TM-SD-14                  | TM-SD-14  | TM-SD-15    | TM-SD-15   | TM-SD-16    | TM-SD-17   | TM-SD-18   | TM-SD-19  | TM-SD-20  | TM-SD-20    |            |             |            |          |           |
|                                  |                  |             | 4/15/2015  | 8/12/2015   | 4/16/2015 | 4/16/2015                 | 8/12/2015 | 4/16/2015   | 8/12/2015  | 4/16/2015   | 8/12/2015  | 4/16/2015  | 8/12/2015 | 4/16/2015 | 8/12/2015   |            |             |            |          |           |
|                                  |                  |             | Discrete   | Discrete    | Discrete  | Discrete                  | Discrete  | Composite   | Composite  | Discrete    | Discrete   | Discrete   | Discrete  | Composite | Composite   |            |             |            |          |           |
| Sample Identification            |                  | Sample Date |            | Sample Type |           | Sample Location and Depth |           | South 0-12" | South 3-4' | North 0-12" | North 3-4' | North 3-4' | 0-12"     | 3-4'      | South 0-12" | South 5-6' | North 0-12" | North 2-3' | 0-12"    | 2-6'      |
| Compound                         | Regulatory Level | Units       |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            |          |           |
| <b>TCLP VOC</b>                  |                  |             |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            |          |           |
| 1,1-Dichloroethene               | 0.7              | mg/L        | 0.05 U     | 0.05 U      | 0.05 U    | 0.05 U                    | 0.05 U    |             |            |             |            |            |           |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |          |           |
| 1,2-Dichloroethane               | 0.5              | mg/L        | 0.05 U     | 0.05 U      | 0.05 U    | 0.05 U                    | 0.05 U    |             |            |             |            |            |           |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |          |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L        | 5 U        | 5 U         | 5 U       | 5 U                       | 5 U       |             |            |             |            |            |           |           | 5 U         | 5 U        | 5 U         | 5 U        |          |           |
| Benzene                          | 0.5              | mg/L        | 0.05 U     | 0.05 U      | 0.05 U    | 0.05 U                    | 0.05 U    |             |            |             |            |            |           |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |          |           |
| Carbon tetrachloride             | 0.5              | mg/L        | 0.05 UJ    | 0.05 UJ     | 0.05 UJ   | 0.05 UJ                   | 0.05 UJ   |             |            |             |            |            |           |           | 0.05 UJ     | 0.05 UJ    | 0.05 UJ     | 0.05 UJ    |          |           |
| Chlorobenzene                    | 100.0            | mg/L        | 1 U        | 1 U         | 1 U       | 1 U                       | 1 U       |             |            |             |            |            |           |           | 1 U         | 1 U        | 1 U         | 1 U        |          |           |
| Chloroform                       | 6.0              | mg/L        | 0.0036 J   | 0.5 U       | 0.0032 J  | 0.0047 B                  | 0.5 U     |             |            |             |            |            |           |           | 0.0029 J    | 0.5 U      | 0.0033 J    | 0.5 U      |          |           |
| Tetrachloroethene                | 0.7              | mg/L        | 0.05 U     | 0.05 U      | 0.05 U    | 0.05 U                    | 0.05 U    |             |            |             |            |            |           |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |          |           |
| Trichloroethene                  | 0.5              | mg/L        | 0.05 U     | 0.05 U      | 0.05 U    | 0.05 U                    | 0.05 U    |             |            |             |            |            |           |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |          |           |
| Vinyl chloride                   | 0.2              | mg/L        | 0.05 U     | 0.05 U      | 0.05 U    | 0.05 U                    | 0.05 U    |             |            |             |            |            |           |           | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |          |           |
| <b>TCLP Metals</b>               |                  |             |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            |          |           |
| Arsenic                          | 5.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.022 J  | 0.05 U    |
| Barium                           | 100.0            | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.24 J   | 0.17 B    |
| Cadmium                          | 1.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.0011 J | 0.05 U    |
| Chromium                         | 5.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.0052 J | 0.00096 B |
| Lead                             | 5.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.0099 J | 0.05 U    |
| Selenium                         | 1.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.0073 J | 0.0071 B  |
| Silver                           | 5.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.05 U   | 0.05 U    |
| Mercury                          | 0.2              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.001 U  | 0.001 U   |
| <b>TCLP SVOC</b>                 |                  |             |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            |          |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.5 RR   | 0.5 RR    |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 5 RR     | 5 RR      |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.1 RR   | 0.1 RR    |
| 2,4-Dinitrotoluene               | 0.13             | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.1 RR   | 0.1 RR    |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 2 RR     | 2 RR      |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 2 RR     | 2 RR      |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.1 RR   | 0.1 RR    |
| Hexachlorobenzene                | 0.13             | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.1 RR   | 0.1 RR    |
| Hexachloroethane                 | 3.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.5 RR   | 0.5 RR    |
| Nitrobenzene                     | 2.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.1 RR   | 0.1 RR    |
| Pentachlorophenol                | 100.0            | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 5 RR     | 5 RR      |
| Pyridine                         | 5.0              | mg/L        |            |             |           |                           |           |             |            |             |            |            |           |           |             |            |             |            | 0.5 RR   | 0.5 RR    |

Data Validation Qualifier Code

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |       | Transect 5            |            |            |             |                |           | Transect 6 |             |            |             |            |           |           |           |           |
|----------------------------------|------------------|-------|-----------------------|------------|------------|-------------|----------------|-----------|------------|-------------|------------|-------------|------------|-----------|-----------|-----------|-----------|
|                                  |                  |       | Sample Identification |            | TM-SD-21   | TM-SD-22    | TM-SD-22       | TM-SD-23  | TM-SD-24   | TM-SD-25    | TM-SD-25   | TM-SD-27    | TM-SD-28   | TM-SD-29  | TM-SD-30  | TM-SD-31  | TM-SD-31  |
|                                  |                  |       | Sample Date           |            | 4/16/2015  | 4/16/2015   | 8/12/2015      | 4/16/2015 | 8/12/2015  | 4/16/2015   | 8/12/2015  | 4/17/2015   | 8/12/2015  | 4/20/2015 | 8/12/2015 | 4/20/2015 | 8/12/2015 |
|                                  |                  |       | Sample Type           |            | Discrete   | Discrete    | Discrete       | Discrete  | Discrete   | Composite   | Composite  | Discrete    | Discrete   | Discrete  | Discrete  | Composite | Composite |
| Sample Location and Depth        |                  |       | South 0-12"           | South 4-5' | South 3-4' | North 0-12" | North 3.5-4.5' | 0-12"     | 3-4.5'     | South 0-12" | South 3-4' | North 0-12" | North 2-3' | 0-12"     | 2-4'      |           |           |
| Compound                         | Regulatory Level | Units |                       |            |            |             |                |           |            |             |            |             |            |           |           |           |           |
| <b>TCLP VOC</b>                  |                  |       |                       |            |            |             |                |           |            |             |            |             |            |           |           |           |           |
| 1,1-Dichloroethene               | 0.7              | mg/L  | 0.05 U                | 0.05 U     | 0.05 U     | 0.05 U      | 0.05 U         |           |            | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |           |           |           |           |
| 1,2-Dichloroethane               | 0.5              | mg/L  | 0.05 U                | 0.05 U     | 0.05 U     | 0.05 U      | 0.05 U         |           |            | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |           |           |           |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L  | 5 U                   | 5 U        | 0.0115 J   | 0.0331 J    | 5 U            |           |            | 0.058 J     | 5 U        | 0.0447 J    | 5 U        |           |           |           |           |
| Benzene                          | 0.5              | mg/L  | 0.05 U                | 0.05 U     | 0.05 U     | 0.05 U      | 0.05 U         |           |            | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |           |           |           |           |
| Carbon tetrachloride             | 0.5              | mg/L  | 0.05 UJ               | 0.05 U     | 0.05 UJ    | 0.05 UJ     | 0.05 UJ        |           |            | 0.05 UJ     | 0.05 UJ    | 0.05 UJ     | 0.05 UJ    |           |           |           |           |
| Chlorobenzene                    | 100.0            | mg/L  | 1 U                   | 1 U        | 1 U        | 1 U         | 1 U            |           |            | 1 U         | 1 U        | 1 U         | 1 U        |           |           |           |           |
| Chloroform                       | 6.0              | mg/L  | 0.0028 J              | 0.006 B    | 0.5 U      | 0.0034 J    | 0.5 U          |           |            | 0.0024 B    | 0.5 U      | 0.5 U       | 0.5 U      |           |           |           |           |
| Tetrachloroethene                | 0.7              | mg/L  | 0.05 U                | 0.05 U     | 0.05 U     | 0.05 U      | 0.05 U         |           |            | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |           |           |           |           |
| Trichloroethene                  | 0.5              | mg/L  | 0.05 U                | 0.05 U     | 0.05 U     | 0.05 U      | 0.05 U         |           |            | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |           |           |           |           |
| Vinyl chloride                   | 0.2              | mg/L  | 0.05 U                | 0.05 U     | 0.05 U     | 0.05 U      | 0.05 U         |           |            | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |           |           |           |           |
| <b>TCLP Metals</b>               |                  |       |                       |            |            |             |                |           |            |             |            |             |            |           |           |           |           |
| Arsenic                          | 5.0              | mg/L  |                       |            |            |             |                | 0.022 J   | 0.0077 J   |             |            |             |            | 0.0077 J  | 0.02 B    |           |           |
| Barium                           | 100.0            | mg/L  |                       |            |            |             |                | 0.35 J    | 0.28 B     |             |            |             |            | 0.46 J    | 0.33 B    |           |           |
| Cadmium                          | 1.0              | mg/L  |                       |            |            |             |                | 0.00085 J | 0.05 U     |             |            |             |            | 0.05 U    | 0.05 U    |           |           |
| Chromium                         | 5.0              | mg/L  |                       |            |            |             |                | 0.0068 J  | 0.002 B    |             |            |             |            | 0.0027 J  | 0.0052 B  |           |           |
| Lead                             | 5.0              | mg/L  |                       |            |            |             |                | 0.011 J   | 0.05 U     |             |            |             |            | 0.0057 J  | 0.05 U    |           |           |
| Selenium                         | 1.0              | mg/L  |                       |            |            |             |                | 0.016 J   | 0.1 U      |             |            |             |            | 0.014 J   | 0.013 B   |           |           |
| Silver                           | 5.0              | mg/L  |                       |            |            |             |                | 0.05 U    | 0.0024 B   |             |            |             |            | 0.0011 J  | 0.0025 B  |           |           |
| Mercury                          | 0.2              | mg/L  |                       |            |            |             |                | 0.001 U   | 0.001 U    |             |            |             |            | 0.001 U   | 0.001 U   |           |           |
| <b>TCLP SVOC</b>                 |                  |       |                       |            |            |             |                |           |            |             |            |             |            |           |           |           |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L  |                       |            |            |             |                | 0.5 RR    | 0.5 RR     |             |            |             |            | 0.5 RR    | 0.5 RR    |           |           |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L  |                       |            |            |             |                | 5 RR      | 5 RR       |             |            |             |            | 5 RR      | 5 RR      |           |           |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L  |                       |            |            |             |                | 0.1 RR    | 0.1 RR     |             |            |             |            | 0.1 RR    | 0.1 RR    |           |           |
| 2,4-Dinitrotoluene               | 0.13             | mg/L  |                       |            |            |             |                | 0.1 RR    | 0.1 RR     |             |            |             |            | 0.1 RR    | 0.1 RR    |           |           |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L  |                       |            |            |             |                | 2 RR      | 2 RR       |             |            |             |            | 2 RR      | 0.019 RR  |           |           |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L  |                       |            |            |             |                | 0.15 RR   | 0.108 RR   |             |            |             |            | 2 RR      | 0.0498 RR |           |           |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L  |                       |            |            |             |                | 0.1 RR    | 0.1 RR     |             |            |             |            | 0.1 RR    | 0.1 RR    |           |           |
| Hexachlorobenzene                | 0.13             | mg/L  |                       |            |            |             |                | 0.1 RR    | 0.1 RR     |             |            |             |            | 0.1 RR    | 0.1 RR    |           |           |
| Hexachloroethane                 | 3.0              | mg/L  |                       |            |            |             |                | 0.5 RR    | 0.5 RR     |             |            |             |            | 0.5 RR    | 0.5 RR    |           |           |
| Nitrobenzene                     | 2.0              | mg/L  |                       |            |            |             |                | 0.1 RR    | 0.1 RR     |             |            |             |            | 0.1 RR    | 0.1 RR    |           |           |
| Pentachlorophenol                | 100.0            | mg/L  |                       |            |            |             |                | 5 RR      | 5 RR       |             |            |             |            | 5 RR      | 5 RR      |           |           |
| Pyridine                         | 5.0              | mg/L  |                       |            |            |             |                | 0.5 RR    | 0.5 RR     |             |            |             |            | 0.5 RR    | 0.5 RR    |           |           |

Data Validation Qualifier Code

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |       | Transect 7            |             |             |                |           |           | Transect 8  |             |             |             |           |           |           |
|----------------------------------|------------------|-------|-----------------------|-------------|-------------|----------------|-----------|-----------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|
|                                  |                  |       | Sample Identification |             | TM-SD-32    | TM-SD-33       | TM-SD-34  | TM-SD-35  | TM-SD-36    | TM-SD-36    | TM-SD-37    | TM-SD-38    | TM-SD-39  | TM-SD-40  | TM-SD-41  |
|                                  |                  |       | Sample Date           |             | 4/17/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 | 4/20/2015   | 8/13/2015   | 4/20/2015   | 8/13/2015   | 4/20/2015 | 8/13/2015 | 4/20/2015 |
|                                  |                  |       | Sample Type           |             | Discrete    | Discrete       | Discrete  | Discrete  | Composite   | Composite   | Discrete    | Discrete    | Discrete  | Discrete  | Composite |
| Sample Location and Depth        |                  |       | South 0-12"           | No Recovery | North 0-12" | North 5.5-6.5' | 0-12"     | 5.5-6.5'  | South 0-12" | No Recovery | North 0-12" | No Recovery | 0-12"     |           |           |
| Compound                         | Regulatory Level | Units |                       |             |             |                |           |           |             |             |             |             |           |           |           |
| <i>TCLP VOC</i>                  |                  |       |                       |             |             |                |           |           |             |             |             |             |           |           |           |
| 1,1-Dichloroethene               | 0.7              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.05 U      |             | 0.05 U      |             |           |           |           |
| 1,2-Dichloroethane               | 0.5              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.05 U      |             | 0.05 U      |             |           |           |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L  | 5 U                   |             | 5 U         | 0.0516 J       |           |           | 5 U         |             | 5 U         |             |           |           |           |
| Benzene                          | 0.5              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.0122 J    |             | 0.131       |             |           |           |           |
| Carbon tetrachloride             | 0.5              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.05 U      |             | 0.05 U      |             |           |           |           |
| Chlorobenzene                    | 100.0            | mg/L  | 1 U                   |             | 1 U         | 1 U            |           |           | 0.013 J     |             | 0.125 J     |             |           |           |           |
| Chloroform                       | 6.0              | mg/L  | 0.5 U                 |             | 0.0025 B    | 0.5 U          |           |           | 0.5 U       |             | 0.5 U       |             |           |           |           |
| Tetrachloroethene                | 0.7              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.05 U      |             | 0.05 U      |             |           |           |           |
| Trichloroethene                  | 0.5              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.05 U      |             | 0.05 U      |             |           |           |           |
| Vinyl chloride                   | 0.2              | mg/L  | 0.05 U                |             | 0.05 U      | 0.05 U         |           |           | 0.05 U      |             | 0.05 U      |             |           |           |           |
| <i>TCLP Metals</i>               |                  |       |                       |             |             |                |           |           |             |             |             |             |           |           |           |
| Arsenic                          | 5.0              | mg/L  |                       |             |             |                |           | 0.0087 J  | 0.0049 B    |             |             |             | 0.013 J   |           |           |
| Barium                           | 100.0            | mg/L  |                       |             |             |                |           | 0.41 J    | 0.59 B      |             |             |             | 0.55 J    |           |           |
| Cadmium                          | 1.0              | mg/L  |                       |             |             |                |           | 0.05 U    | 0.05 U      |             |             |             | 0.05 U    |           |           |
| Chromium                         | 5.0              | mg/L  |                       |             |             |                |           | 0.0022 J  | 0.002 B     |             |             |             | 0.0052 J  |           |           |
| Lead                             | 5.0              | mg/L  |                       |             |             |                |           | 0.0073 J  | 0.05 U      |             |             |             | 0.0083 J  |           |           |
| Selenium                         | 1.0              | mg/L  |                       |             |             |                |           | 0.008 J   | 0.0058 B    |             |             |             | 0.0098 J  |           |           |
| Silver                           | 5.0              | mg/L  |                       |             |             |                |           | 0.0019 J  | 0.0045 B    |             |             |             | 0.0021 J  |           |           |
| Mercury                          | 0.2              | mg/L  |                       |             |             |                |           | 0.001 U   | 0.001 U     |             |             |             | 0.001 U   |           |           |
| <i>TCLP SVOC</i>                 |                  |       |                       |             |             |                |           |           |             |             |             |             |           |           |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L  |                       |             |             |                |           | 0.5 RR    | 0.5 RR      |             |             |             | 0.5 RR    |           |           |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L  |                       |             |             |                |           | 5 RR      | 5 RR        |             |             |             | 5 RR      |           |           |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L  |                       |             |             |                |           | 0.1 RR    | 0.1 RR      |             |             |             | 0.1 RR    |           |           |
| 2,4-Dinitrotoluene               | 0.13             | mg/L  |                       |             |             |                |           | 0.1 RR    | 0.1 RR      |             |             |             | 0.1 RR    |           |           |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L  |                       |             |             |                |           | 2 RR      | 2 RR        |             |             |             | 2 RR      |           |           |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L  |                       |             |             |                |           | 2 RR      | 2 RR        |             |             |             | 2 RR      |           |           |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L  |                       |             |             |                |           | 0.1 RR    | 0.1 RR      |             |             |             | 0.1 RR    |           |           |
| Hexachlorobenzene                | 0.13             | mg/L  |                       |             |             |                |           | 0.1 RR    | 0.1 RR      |             |             |             | 0.1 RR    |           |           |
| Hexachloroethane                 | 3.0              | mg/L  |                       |             |             |                |           | 0.5 RR    | 0.5 RR      |             |             |             | 0.5 RR    |           |           |
| Nitrobenzene                     | 2.0              | mg/L  |                       |             |             |                |           | 0.1 RR    | 0.1 RR      |             |             |             | 0.1 RR    |           |           |
| Pentachlorophenol                | 100.0            | mg/L  |                       |             |             |                |           | 5 RR      | 5 RR        |             |             |             | 5 RR      |           |           |
| Pyridine                         | 5.0              | mg/L  |                       |             |             |                |           | 0.5 RR    | 0.5 RR      |             |             |             | 0.5 RR    |           |           |

Data Validation Qualifier Code

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |       | Transect 9  |            |             |             |           |           | Transect 10 |                |             |                |           |           |
|----------------------------------|------------------|-------|-------------|------------|-------------|-------------|-----------|-----------|-------------|----------------|-------------|----------------|-----------|-----------|
|                                  |                  |       | TM-SD-42    | TM-SD-43   | TM-SD-44    | TM-SD-45    | TM-SD-46  | TM-SD-46  | TM-SD-47    | TM-SD-48       | TM-SD-49    | TM-SD-50       | TM-SD-51  | TM-SD-51  |
|                                  |                  |       | 4/17/2015   | 8/13/2015  | 4/20/2015   | 8/13/2015   | 4/20/2015 | 8/13/2015 | 4/17/2015   | 8/13/2015      | 4/20/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 |
|                                  |                  |       | Discrete    | Discrete   | Discrete    | Discrete    | Composite | Composite | Discrete    | Discrete       | Discrete    | Discrete       | Composite | Composite |
| Sample Identification            |                  |       | South 0-12" | South 6-7' | North 0-12" | No Recovery | 0-12"     | 6-7'      | South 0-12" | South 5.5-6.5' | North 0-12" | North 1.5-2.5' | 0-12"     | 1.5-6.5'  |
| Compound                         | Regulatory Level | Units |             |            |             |             |           |           |             |                |             |                |           |           |
| <b>TCLP VOC</b>                  |                  |       |             |            |             |             |           |           |             |                |             |                |           |           |
| 1,1-Dichloroethene               | 0.7              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      |             |           |           | 0.05 U      | 0.05 U         | 0.05 U      | 0.05 U         |           |           |
| 1,2-Dichloroethane               | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      |             |           |           | 0.05 U      | 0.05 U         | 0.05 U      | 0.05 U         |           |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L  | 0.0544 B    | 5 U        | 5 U         |             |           |           | 5 U         | 5 U            | 0.0304 J    | 5 U            |           |           |
| Benzene                          | 0.5              | mg/L  | 0.05 U      | 0.0089 J   | 0.05 U      |             |           |           | 0.05 U      | 0.008 J        | 0.05 U      | 0.0063 J       |           |           |
| Carbon tetrachloride             | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      |             |           |           | 0.05 U      | 0.05 U         | 0.05 U      | 0.05 U         |           |           |
| Chlorobenzene                    | 100.0            | mg/L  | 1 U         | 0.0078 J   | 1 U         |             |           |           | 1 U         | 0.004 J        | 0.0177 J    | 1 U            |           |           |
| Chloroform                       | 6.0              | mg/L  | 0.5 U       | 0.5 U      | 0.5 U       |             |           |           | 0.5 U       | 0.5 U          | 0.5 U       | 0.5 U          |           |           |
| Tetrachloroethene                | 0.7              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      |             |           |           | 0.05 U      | 0.05 U         | 0.05 U      | 0.0221 J       |           |           |
| Trichloroethene                  | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      |             |           |           | 0.05 U      | 0.05 U         | 0.05 U      | 0.05 U         |           |           |
| Vinyl chloride                   | 0.2              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      |             |           |           | 0.05 U      | 0.05 U         | 0.05 U      | 0.05 U         |           |           |
| <b>TCLP Metals</b>               |                  |       |             |            |             |             |           |           |             |                |             |                |           |           |
| Arsenic                          | 5.0              | mg/L  |             |            |             |             |           | 0.019 B   | 0.011 J     |                |             |                | 0.016 J   | 0.05 U    |
| Barium                           | 100.0            | mg/L  |             |            |             |             |           | 0.45 B    | 0.38 J      |                |             |                | 0.18 J    | 0.23 B    |
| Cadmium                          | 1.0              | mg/L  |             |            |             |             |           | 0.05 U    | 0.05 U      |                |             |                | 0.05 U    | 0.05 U    |
| Chromium                         | 5.0              | mg/L  |             |            |             |             |           | 0.026 B   | 0.0064 J    |                |             |                | 0.017 J   | 0.0085 B  |
| Lead                             | 5.0              | mg/L  |             |            |             |             |           | 0.05 U    | 0.05 U      |                |             |                | 0.05 U    | 0.05 U    |
| Selenium                         | 1.0              | mg/L  |             |            |             |             |           | 0.006 B   | 0.01 J      |                |             |                | 0.013 J   | 0.0079 B  |
| Silver                           | 5.0              | mg/L  |             |            |             |             |           | 0.0023 B  | 0.0019 J    |                |             |                | 0.0021 J  | 0.0036 B  |
| Mercury                          | 0.2              | mg/L  |             |            |             |             |           | 0.001 U   | 0.001 U     |                |             |                | 0.001 U   | 0.001 U   |
| <b>TCLP SVOC</b>                 |                  |       |             |            |             |             |           |           |             |                |             |                |           |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L  |             |            |             |             |           | 0.5 RR    | 0.5 RR      |                |             |                | 0.5 RR    | 0.5 RR    |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L  |             |            |             |             |           | 5 RR      | 5 RR        |                |             |                | 5 RR      | 5 RR      |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L  |             |            |             |             |           | 0.1 RR    | 0.1 RR      |                |             |                | 0.1 RR    | 0.1 RR    |
| 2,4-Dinitrotoluene               | 0.13             | mg/L  |             |            |             |             |           | 0.1 RR    | 0.1 RR      |                |             |                | 0.1 RR    | 0.1 RR    |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L  |             |            |             |             |           | 2 RR      | 2 RR        |                |             |                | 2 RR      | 2 RR      |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L  |             |            |             |             |           | 2 RR      | 2 RR        |                |             |                | 2 RR      | 2 RR      |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L  |             |            |             |             |           | 0.1 RR    | 0.1 RR      |                |             |                | 0.1 RR    | 0.1 RR    |
| Hexachlorobenzene                | 0.13             | mg/L  |             |            |             |             |           | 0.1 RR    | 0.1 RR      |                |             |                | 0.1 RR    | 0.1 RR    |
| Hexachloroethane                 | 3.0              | mg/L  |             |            |             |             |           | 0.5 RR    | 0.5 RR      |                |             |                | 0.5 RR    | 0.5 RR    |
| Nitrobenzene                     | 2.0              | mg/L  |             |            |             |             |           | 0.1 RR    | 0.1 RR      |                |             |                | 0.1 RR    | 0.1 RR    |
| Pentachlorophenol                | 100.0            | mg/L  |             |            |             |             |           | 5 RR      | 5 RR        |                |             |                | 5 RR      | 5 RR      |
| Pyridine                         | 5.0              | mg/L  |             |            |             |             |           | 0.5 RR    | 0.5 RR      |                |             |                | 0.5 RR    | 0.5 RR    |

Data Validation Qualifier Code

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |       | Transect 11           |              |             |              |           | Transect 12 |              |             |                |           |           |           |           |
|----------------------------------|------------------|-------|-----------------------|--------------|-------------|--------------|-----------|-------------|--------------|-------------|----------------|-----------|-----------|-----------|-----------|
|                                  |                  |       | Sample Identification |              | TM-SD-53    | TM-SD-54     | TM-SD-55  | TM-SD-56    | TM-SD-57     | TM-SD-58    | TM-SD-59       | TM-SD-60  | TM-SD-61  | TM-SD-62  | TM-SD-62  |
|                                  |                  |       | Sample Date           |              | 4/17/2015   | 8/13/2015    | 4/20/2015 | 8/13/2015   | 4/20/2015    | 4/17/2015   | 8/13/2015      | 4/20/2015 | 8/13/2015 | 4/20/2015 | 8/13/2015 |
|                                  |                  |       | Sample Type           |              | Discrete    | Discrete     | Discrete  | Discrete    | Composite    | Discrete    | Discrete       | Discrete  | Discrete  | Composite | Composite |
| Sample Location and Depth        |                  |       | South 0-12"           | Inaccessible | North 0-12" | Inaccessible | 0-12"     | South 0-12" | Inaccessible | North 0-12" | North 3.5-4.5' | 0-12"     | 3.5-4.5'  |           |           |
| Compound                         | Regulatory Level | Units |                       |              |             |              |           |             |              |             |                |           |           |           |           |
| <i>TCLP VOC</i>                  |                  |       |                       |              |             |              |           |             |              |             |                |           |           |           |           |
| 1,1-Dichloroethene               | 0.7              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.05 U         |           |           |           |           |
| 1,2-Dichloroethane               | 0.5              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.05 U         |           |           |           |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L  | 0.0414 J              |              | 5 U         |              |           | 0.0584 B    |              | 5 U         | 5 U            |           |           |           |           |
| Benzene                          | 0.5              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.0082 J       |           |           |           |           |
| Carbon tetrachloride             | 0.5              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.05 U         |           |           |           |           |
| Chlorobenzene                    | 100.0            | mg/L  | 1 U                   |              | 1 U         |              |           | 1 U         |              | 0.0053 J    | 0.0249 J       |           |           |           |           |
| Chloroform                       | 6.0              | mg/L  | 0.5 U                 |              | 0.5 U       |              |           | 0.5 U       |              | 0.0022 B    | 0.5 U          |           |           |           |           |
| Tetrachloroethene                | 0.7              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.05 U         |           |           |           |           |
| Trichloroethene                  | 0.5              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.05 U         |           |           |           |           |
| Vinyl chloride                   | 0.2              | mg/L  | 0.05 U                |              | 0.05 U      |              |           | 0.05 U      |              | 0.05 U      | 0.05 U         |           |           |           |           |
| <i>TCLP Metals</i>               |                  |       |                       |              |             |              |           |             |              |             |                |           |           |           |           |
| Arsenic                          | 5.0              | mg/L  |                       |              |             |              |           | 0.016 J     |              |             |                | 0.05 U    | 0.0059 B  |           |           |
| Barium                           | 100.0            | mg/L  |                       |              |             |              |           | 0.15 J      |              |             |                | 0.51 J    | 0.28 B    |           |           |
| Cadmium                          | 1.0              | mg/L  |                       |              |             |              |           | 0.0006 J    |              |             |                | 0.05 U    | 0.05 U    |           |           |
| Chromium                         | 5.0              | mg/L  |                       |              |             |              |           | 0.03 J      |              |             |                | 0.0073 J  | 0.012 B   |           |           |
| Lead                             | 5.0              | mg/L  |                       |              |             |              |           | 0.0084 J    |              |             |                | 0.0068 J  | 0.05 U    |           |           |
| Selenium                         | 1.0              | mg/L  |                       |              |             |              |           | 0.0098 J    |              |             |                | 0.0054 J  | 0.008 B   |           |           |
| Silver                           | 5.0              | mg/L  |                       |              |             |              |           | 0.0016 J    |              |             |                | 0.05 U    | 0.0043 B  |           |           |
| Mercury                          | 0.2              | mg/L  |                       |              |             |              |           | 0.001 U     |              |             |                | 0.001 U   | 0.001 U   |           |           |
| <i>TCLP SVOC</i>                 |                  |       |                       |              |             |              |           |             |              |             |                |           |           |           |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L  |                       |              |             |              |           | 0.5 RR      |              |             |                | 0.5 RR    | 0.5 RR    |           |           |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L  |                       |              |             |              |           | 5 RR        |              |             |                | 5 RR      | 5 RR      |           |           |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L  |                       |              |             |              |           | 0.1 RR      |              |             |                | 0.1 RR    | 0.1 RR    |           |           |
| 2,4-Dinitrotoluene               | 0.13             | mg/L  |                       |              |             |              |           | 0.1 RR      |              |             |                | 0.1 RR    | 0.1 RR    |           |           |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L  |                       |              |             |              |           | 2 RR        |              |             |                | 2 RR      | 2 RR      |           |           |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L  |                       |              |             |              |           | 2 RR        |              |             |                | 2 RR      | 2 RR      |           |           |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L  |                       |              |             |              |           | 0.1 RR      |              |             |                | 0.1 RR    | 0.1 RR    |           |           |
| Hexachlorobenzene                | 0.13             | mg/L  |                       |              |             |              |           | 0.1 RR      |              |             |                | 0.1 RR    | 0.1 RR    |           |           |
| Hexachloroethane                 | 3.0              | mg/L  |                       |              |             |              |           | 0.5 RR      |              |             |                | 0.5 RR    | 0.5 RR    |           |           |
| Nitrobenzene                     | 2.0              | mg/L  |                       |              |             |              |           | 0.1 RR      |              |             |                | 0.1 RR    | 0.1 RR    |           |           |
| Pentachlorophenol                | 100.0            | mg/L  |                       |              |             |              |           | 5 RR        |              |             |                | 5 RR      | 5 RR      |           |           |
| Pyridine                         | 5.0              | mg/L  |                       |              |             |              |           | 0.5 RR      |              |             |                | 0.5 RR    | 0.5 RR    |           |           |

Data Validation Qualifier Code

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.



Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |             | Transect 13               |            |             |            |           |           | Transect 14 |            |             |              |           |           |
|----------------------------------|------------------|-------------|---------------------------|------------|-------------|------------|-----------|-----------|-------------|------------|-------------|--------------|-----------|-----------|
|                                  |                  |             | TM-SD-63                  | TM-SD-64   | TM-SD-65    | TM-SD-66   | TM-SD-67  | TM-SD-67  | TM-SD-68    | TM-SD-69   | TM-SD-70    | TM-SD-71     | TM-SD-72  | TM-SD-72  |
|                                  |                  |             | 4/17/2015                 | 8/13/2015  | 4/20/2015   | 8/13/2015  | 4/20/2015 | 8/13/2015 | 4/17/2015   | 8/13/2015  | 4/17/2015   | 8/13/2015    | 4/17/2015 | 8/13/2015 |
|                                  |                  |             | Discrete                  | Discrete   | Discrete    | Discrete   | Composite | Composite | Discrete    | Discrete   | Discrete    | Discrete     | Composite | Composite |
| Sample Identification            |                  | Sample Date | Sample Location and Depth |            |             |            |           |           |             |            |             |              |           |           |
| Compound                         | Regulatory Level | Units       | South 0-12"               | South 5-6' | North 0-12" | North 6-7' | 0-12"     | 5-7'      | South 0-12" | South 5-6' | North 0-12" | Inaccessible | 0-12"     | 5-6'      |
| <b>TCLP VOC</b>                  |                  |             |                           |            |             |            |           |           |             |            |             |              |           |           |
| 1,1-Dichloroethene               | 0.7              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.05 U      |              |           |           |
| 1,2-Dichloroethane               | 0.5              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.05 U      |              |           |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L        | 0.0421 B                  | 5 UJ       | 5 U         | 5 U        |           |           | 5 U         | 5 U        | 5 U         |              |           |           |
| Benzene                          | 0.5              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.0795      |              |           |           |
| Carbon tetrachloride             | 0.5              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.05 U      |              |           |           |
| Chlorobenzene                    | 100.0            | mg/L        | 1 U                       | 0.0098 J   | 1 U         | 0.0077 J   |           |           | 1 U         | 1 U        | 1 U         |              |           |           |
| Chloroform                       | 6.0              | mg/L        | 0.5 U                     | 0.5 UJ     | 0.5 U       | 0.5 U      |           |           | 0.5 U       | 0.5 U      | 0.5 U       |              |           |           |
| Tetrachloroethene                | 0.7              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.05 U      |              |           |           |
| Trichloroethene                  | 0.5              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.05 U      |              |           |           |
| Vinyl chloride                   | 0.2              | mg/L        | 0.05 U                    | 0.05 UJ    | 0.05 U      | 0.05 U     |           |           | 0.05 U      | 0.05 U     | 0.05 U      |              |           |           |
| <b>TCLP Metals</b>               |                  |             |                           |            |             |            |           |           |             |            |             |              |           |           |
| Arsenic                          | 5.0              | mg/L        |                           |            |             |            |           | 0.0097 J  | 0.0058 B    |            |             |              | 0.05 U    | 0.012 B   |
| Barium                           | 100.0            | mg/L        |                           |            |             |            |           | 0.1 J     | 0.36 B      |            |             |              | 0.31 J    | 0.21 B    |
| Cadmium                          | 1.0              | mg/L        |                           |            |             |            |           | 0.00099 J | 0.05 U      |            |             |              | 0.00061 J | 0.05 U    |
| Chromium                         | 5.0              | mg/L        |                           |            |             |            |           | 0.00097 J | 0.019 B     |            |             |              | 0.0043 J  | 0.044 B   |
| Lead                             | 5.0              | mg/L        |                           |            |             |            |           | 0.05 U    | 0.05 U      |            |             |              | 0.0039 J  | 0.05 U    |
| Selenium                         | 1.0              | mg/L        |                           |            |             |            |           | 0.014 J   | 0.0047 B    |            |             |              | 0.0084 J  | 0.0069 B  |
| Silver                           | 5.0              | mg/L        |                           |            |             |            |           | 0.0033 J  | 0.004 B     |            |             |              | 0.0022 J  | 0.002 B   |
| Mercury                          | 0.2              | mg/L        |                           |            |             |            |           | 0.001 U   | 0.001 U     |            |             |              | 0.001 U   | 0.001 U   |
| <b>TCLP SVOC</b>                 |                  |             |                           |            |             |            |           |           |             |            |             |              |           |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L        |                           |            |             |            |           | 0.5 RR    | 0.5 RR      |            |             |              | 0.5 RR    | 0.5 RR    |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L        |                           |            |             |            |           | 5 RR      | 5 RR        |            |             |              | 5 RR      | 5 RR      |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L        |                           |            |             |            |           | 0.1 RR    | 0.1 RR      |            |             |              | 0.1 RR    | 0.1 RR    |
| 2,4-Dinitrotoluene               | 0.13             | mg/L        |                           |            |             |            |           | 0.1 RR    | 0.1 RR      |            |             |              | 0.1 RR    | 0.1 RR    |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L        |                           |            |             |            |           | 2 RR      | 2 RR        |            |             |              | 2 RR      | 2 RR      |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L        |                           |            |             |            |           | 2 RR      | 2 RR        |            |             |              | 2 RR      | 2 RR      |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L        |                           |            |             |            |           | 0.1 RR    | 0.1 RR      |            |             |              | 0.1 RR    | 0.1 RR    |
| Hexachlorobenzene                | 0.13             | mg/L        |                           |            |             |            |           | 0.1 RR    | 0.1 RR      |            |             |              | 0.1 RR    | 0.1 RR    |
| Hexachloroethane                 | 3.0              | mg/L        |                           |            |             |            |           | 0.5 RR    | 0.5 RR      |            |             |              | 0.5 RR    | 0.5 RR    |
| Nitrobenzene                     | 2.0              | mg/L        |                           |            |             |            |           | 0.1 RR    | 0.1 RR      |            |             |              | 0.1 RR    | 0.1 RR    |
| Pentachlorophenol                | 100.0            | mg/L        |                           |            |             |            |           | 5 RR      | 5 RR        |            |             |              | 5 RR      | 5 RR      |
| Pyridine                         | 5.0              | mg/L        |                           |            |             |            |           | 0.5 RR    | 0.5 RR      |            |             |              | 0.5 RR    | 0.5 RR    |

Data Validation Qualifier Code

- J - The positive result reported for this analyte is a quantitative estimate.
- J+ - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR - Results were rejected and scheduled for resampling.

Table 3 - TCLP Test Results

| TIN MILL CANAL TCLP TEST RESULTS |                  |       | Transect 15 |            |             |            |                           |           | Transect 16               |                |                           |            |                           |           | Transect 17 |           |           |
|----------------------------------|------------------|-------|-------------|------------|-------------|------------|---------------------------|-----------|---------------------------|----------------|---------------------------|------------|---------------------------|-----------|-------------|-----------|-----------|
|                                  |                  |       | TM-SD-73    | TM-SD-74   | TM-SD-75    | TM-SD-76   | TM-SD-77                  | TM-SD-79  | TM-SD-80                  | TM-SD-81       | TM-SD-82                  | TM-SD-83   | TM-SD-84                  | TM-SD-86  | TM-SD-88    |           |           |
|                                  |                  |       | 4/17/2015   | 8/14/2015  | 4/17/2015   | 8/14/2015  | 4/17/2015                 | 8/14/2015 | 4/17/2015                 | 8/14/2015      | 4/17/2015                 | 8/14/2015  | 4/17/2015                 | 8/14/2015 | 4/20/2015   | 4/20/2015 |           |
|                                  |                  |       | Discrete    | Discrete   | Discrete    | Discrete   | Composite                 | Composite | Discrete                  | Discrete       | Discrete                  | Discrete   | Composite                 | Composite | Discrete    | Discrete  | Composite |
| Sample Identification            |                  |       | Sample Date |            | Sample Type |            | Sample Location and Depth |           | Sample Location and Depth |                | Sample Location and Depth |            | Sample Location and Depth |           |             |           |           |
| Compound                         | Regulatory Level | Units | South 0-12" | South 5-6' | North 0-12" | North 3-4' | 0-12"                     | 3-6'      | South 0-12"               | South 5.5-6.5' | North 0-12"               | North 5-6' | 0-12"                     | 5-6.5'    | 0-12"       | 5-6'      | 5-6'      |
| <b>TCLP VOC</b>                  |                  |       |             |            |             |            |                           |           |                           |                |                           |            |                           |           |             |           |           |
| 1,1-Dichloroethene               | 0.7              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| 1,2-Dichloroethane               | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| 2-Butanone (MEK)                 | 200.0            | mg/L  | 0.0343 B    | 0.0331 J   | 5 U         | 5 U        |                           |           | 5 U                       | 5 U            | 0.0398 J                  | 5 U        |                           |           | 0.0299 J    | 0.0329 J  |           |
| Benzene                          | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| Carbon tetrachloride             | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| Chlorobenzene                    | 100.0            | mg/L  | 1 U         | 1 U        | 1 U         | 1 U        |                           |           | 1 U                       | 1 U            | 1 U                       | 1 U        |                           |           | 1 U         | 1 U       |           |
| Chloroform                       | 6.0              | mg/L  | 0.5 U       | 0.5 U      | 0.5 U       | 0.5 U      |                           |           | 0.5 U                     | 0.5 U          | 0.5 U                     | 0.5 U      |                           |           | 0.0024 B    | 0.5 U     |           |
| Tetrachloroethene                | 0.7              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| Trichloroethene                  | 0.5              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| Vinyl chloride                   | 0.2              | mg/L  | 0.05 U      | 0.05 U     | 0.05 U      | 0.05 U     |                           |           | 0.05 U                    | 0.05 U         | 0.05 U                    | 0.05 U     |                           |           | 0.05 U      | 0.05 U    |           |
| <b>TCLP Metals</b>               |                  |       |             |            |             |            |                           |           |                           |                |                           |            |                           |           |             |           |           |
| Arsenic                          | 5.0              | mg/L  |             |            |             |            |                           | 0.05 U    | 0.015 B                   |                |                           |            |                           | 0.05 U    | 0.0091 B    |           | 0.012 J   |
| Barium                           | 100.0            | mg/L  |             |            |             |            |                           | 0.59 J    | 1.1                       |                |                           |            |                           | 0.4 J     | 0.52 B      |           | 1.2       |
| Cadmium                          | 1.0              | mg/L  |             |            |             |            |                           | 0.05 U    | 0.05 U                    |                |                           |            |                           | 0.05 U    | 0.05 U      |           | 0.00056 J |
| Chromium                         | 5.0              | mg/L  |             |            |             |            |                           | 0.004 J   | 0.015 B                   |                |                           |            |                           | 0.0053 J  | 0.0026 B    |           | 0.0019 J  |
| Lead                             | 5.0              | mg/L  |             |            |             |            |                           | 0.0041 J  | 0.026 B                   |                |                           |            |                           | 0.0062 J  | 0.0039 B    |           | 0.016 J   |
| Selenium                         | 1.0              | mg/L  |             |            |             |            |                           | 0.021 J   | 0.012 B                   |                |                           |            |                           | 0.0083 J  | 0.014 B     |           | 0.017 J   |
| Silver                           | 5.0              | mg/L  |             |            |             |            |                           | 0.0018 J  | 0.0014 B                  |                |                           |            |                           | 0.0017 J  | 0.0039 B    |           | 0.001 J   |
| Mercury                          | 0.2              | mg/L  |             |            |             |            |                           | 0.001 U   | 0.001 U                   |                |                           |            |                           | 0.001 U   | 0.001 U     |           | 0.001 U   |
| <b>TCLP SVOC</b>                 |                  |       |             |            |             |            |                           |           |                           |                |                           |            |                           |           |             |           |           |
| 1,4-Dichlorobenzene              | 7.5              | mg/L  |             |            |             |            |                           | 0.5 RR    | 0.5 RR                    |                |                           |            |                           | 0.5 RR    | 0.5 RR      |           | 0.5 RR    |
| 2,4,5-Trichlorophenol            | 400.0            | mg/L  |             |            |             |            |                           | 5 RR      | 5 RR                      |                |                           |            |                           | 5 RR      | 5 RR        |           | 5 RR      |
| 2,4,6-Trichlorophenol            | 2.0              | mg/L  |             |            |             |            |                           | 0.1 RR    | 0.1 RR                    |                |                           |            |                           | 0.1 RR    | 0.1 RR      |           | 0.1 RR    |
| 2,4-Dinitrotoluene               | 0.13             | mg/L  |             |            |             |            |                           | 0.1 RR    | 0.1 RR                    |                |                           |            |                           | 0.1 RR    | 0.1 RR      |           | 0.1 RR    |
| 2-Methylphenol(o-Cresol)         | 200.0            | mg/L  |             |            |             |            |                           | 2 RR      | 2 RR                      |                |                           |            |                           | 2 RR      | 2 RR        |           | 2 RR      |
| 3&4-Methylphenol(m&p Cresol)     | 200.0            | mg/L  |             |            |             |            |                           | 2 RR      | 2 RR                      |                |                           |            |                           | 2 RR      | 0.0438 RR   |           | 2 RR      |
| Hexachloro-1,3-butadiene         | 0.5              | mg/L  |             |            |             |            |                           | 0.1 RR    | 0.1 RR                    |                |                           |            |                           | 0.1 RR    | 0.1 RR      |           | 0.1 RR    |
| Hexachlorobenzene                | 0.13             | mg/L  |             |            |             |            |                           | 0.1 RR    | 0.1 RR                    |                |                           |            |                           | 0.1 RR    | 0.1 RR      |           | 0.1 RR    |
| Hexachloroethane                 | 3.0              | mg/L  |             |            |             |            |                           | 0.5 RR    | 0.5 RR                    |                |                           |            |                           | 0.5 RR    | 0.5 RR      |           | 0.5 RR    |
| Nitrobenzene                     | 2.0              | mg/L  |             |            |             |            |                           | 0.1 RR    | 0.1 RR                    |                |                           |            |                           | 0.1 RR    | 0.1 RR      |           | 0.1 RR    |
| Pentachlorophenol                | 100.0            | mg/L  |             |            |             |            |                           | 5 RR      | 5 RR                      |                |                           |            |                           | 5 RR      | 5 RR        |           | 5 RR      |
| Pyridine                         | 5.0              | mg/L  |             |            |             |            |                           | 0.5 RR    | 0.5 RR                    |                |                           |            |                           | 0.5 RR    | 0.5 RR      |           | 0.5 RR    |

Data Validation Qualifier Code

- J** - The positive result reported for this analyte is a quantitative estimate.
- J+** - The positive result reported for this analyte is a quantitative estimate, but may be biased high.
- J-** - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
- B** - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U** - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ** - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NI** - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y** - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R** - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.
- RR** - Results were rejected and scheduled for resampling.

Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group | Parameter                   | PAL    | Units | Transect 6   | Transect 7   | Transect 8   | Transect 9   | Transect 10  |
|-----------------|-----------------------------|--------|-------|--------------|--------------|--------------|--------------|--------------|
|                 |                             |        |       | TM-SD-31 (D) | TM-SD-36 (D) | TM-SD-41 (D) | TM-SD-46 (D) | TM-SD-51 (D) |
|                 |                             |        |       | Sample Date  | Sample Date  | Sample Date  | Sample Date  | Sample Date  |
|                 |                             |        |       | Sample Type  | Sample Type  | Sample Type  | Sample Type  | Sample Type  |
|                 |                             |        |       | Composite    | Composite    | Composite    | Composite    | Composite    |
|                 |                             |        |       | 1-5'         | 1-5'         | 1-4'         | 2.5-6.5'     | 7-8'         |
|                 |                             |        |       |              |              |              |              |              |
| SVOC            | 1,2,4-Trichlorobenzene      | 110    | mg/kg | 0.214 J      | 0.46 J       | 4.7 U        | 4.62 U       | 0.369 J      |
| SVOC            | 1,2-Dichlorobenzene         | 9300   | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | 1,3-Dichlorobenzene         |        | mg/kg | 3.05 UJ      | 1.96 U       | 4.7 UJ       | 4.62 U       | 2.88 U       |
| SVOC            | 1,4-Dichlorobenzene         | 11     | mg/kg | 3.05 UJ      | 1.96 U       | 4.7 UJ       | 4.62 U       | 2.88 U       |
| SVOC            | 2,4,5-Trichlorophenol       | 82000  | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 2,4,6-Trichlorophenol       | 210    | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 2,4-Dichlorophenol          | 2500   | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 2,4-Dimethylphenol          | 16000  | mg/kg | 9.09         | 1.96 U       | 4.7 U        | 2.31 J       | 0.583 J      |
| SVOC            | 2,4-Dinitrophenol           | 1600   | mg/kg | 18.3 U       | 11.8 UJ      | 28.2 U       | 27.7 UJ      | 17.3 UJ      |
| SVOC            | 2,4-Dinitrotoluene          | 7.4    | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | 2,6-Dinitrotoluene          | 1.5    | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | 2-Chloronaphthalene         | 60000  | mg/kg | 0.68 U       | 0.641 U      | 0.661 U      | 0.352 U      | 0.414 U      |
| SVOC            | 2-Chlorophenol              | 5800   | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 2-Methylnaphthalene         | 3000   | mg/kg | 1.71         | 2.69         | 4.55         | 2.41         | 0.961        |
| SVOC            | 2-Methylphenol              | 41000  | mg/kg | 0.982 J      | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 2-Nitrophenol               |        | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 3,3'-Dichlorobenzidine      | 5.1    | mg/kg | 6.1 U        | 3.93 U       | 0.884 J      | 9.23 U       | 5.77 U       |
| SVOC            | 4,6-Dinitro-2-methylphenol  | 66     | mg/kg | 18.3 U       | 11.8 UJ      | 28.2 U       | 27.7 U       | 17.3 UJ      |
| SVOC            | 4-Bromophenyl phenyl ether  |        | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | 4-Chloro-3-methylphenol     | 82000  | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 UJ      |
| SVOC            | 4-Chlorophenyl phenyl ether |        | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | 4-Methylphenol              | 82000  | mg/kg | 61           | 1.96 U       | 3.57 J       | 1.23 J       | 2.88 UJ      |
| SVOC            | 4-Nitrophenol               |        | mg/kg | 50.6 U       | 32.6 U       | 78 U         | 76.6 U       | 47.9 UJ      |
| SVOC            | Acenaphthene                | 45000  | mg/kg | 0.23 B       | 3.5          | 1.13         | 0.763        | 10.7         |
| SVOC            | Acenaphthylene              | 45000  | mg/kg | 0.0541 B     | 0.542 B      | 0.376 B      | 0.797        | 2.23         |
| SVOC            | Anthracene                  | 230000 | mg/kg | 0.23 J       | 2.08         | 1.24         | 1.7          | 9.9          |
| SVOC            | Benzo[a]anthracene          | 21     | mg/kg | 0.718        | 3.4          | 1.34         | 2.72         | 10.1         |
| SVOC            | Benzo[a]pyrene              | 2.1    | mg/kg | 0.251 J      | 2.56         | 0.87         | 3.2          | 10.3         |
| SVOC            | Benzo[b]fluoranthene        | 21     | mg/kg | 0.286 J      | 1.57         | 0.586 J      | 2.24         | 6.17         |
| SVOC            | Benzo[g,h,i]perylene        |        | mg/kg | 0.12 J       | 1.17         | 0.366 J      | 1.42         | 4.28         |
| SVOC            | Benzo[k]fluoranthene        | 210    | mg/kg | 0.138 J      | 2.12         | 0.501 J      | 1.61         | 5.02         |
| SVOC            | bis(2-chloroethoxy)methane  | 2500   | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | bis(2-Chloroethyl)ether     | 1      | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | bis(2-Chloroisopropyl)ether | 22     | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | bis(2-Ethylhexyl)phthalate  | 160    | mg/kg | 12.9         | 9.24         | 14.9         | 11           | 10.3         |
| SVOC            | Butylbenzylphthalate        | 1200   | mg/kg | 3.05 U       | 1.96 U       | 1.84 J       | 4.62 U       | 2.88 U       |
| SVOC            | Dibenz[a,h]anthracene       | 2.1    | mg/kg | 0.68 U       | 0.275 J      | 0.661 U      | 0.351 J      | 1.04         |
| SVOC            | Diethylphthalate            | 660000 | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | Dimethylphthalate           |        | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | Di-n-butylphthalate         | 82000  | mg/kg | 1.94 B       | 0.79 B       | 1.87 B       | 4.62 U       | 0.317 B      |
| SVOC            | Di-n-octylphthalate         | 8200   | mg/kg | 6.1 U        | 3.93 U       | 9.4 U        | 9.23 U       | 5.77 U       |
| SVOC            | Fluoranthene                | 30000  | mg/kg | 0.584 J      | 9.37         | 3.68         | 6.19         | 28.6         |
| SVOC            | Fluorene                    | 30000  | mg/kg | 0.483 J      | 3.54         | 1.29         | 2.74         | 4.66         |
| SVOC            | Hexachlorobenzene           | 0.96   | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | Hexachlorobutadiene         | 5.3    | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | Hexachlorocyclopentadiene   | 7.5    | mg/kg | 18.3 UJ      | 11.8 U       | 28.2 UJ      | 27.7 UJ      | 17.3 UJ      |
| SVOC            | Hexachloroethane            | 8      | mg/kg | 3.05 UJ      | 1.96 U       | 4.7 UJ       | 4.62 U       | 2.88 U       |
| SVOC            | Indeno[1,2,3-c,d]pyrene     | 21     | mg/kg | 0.68 U       | 1.5          | 0.6 J        | 1.42         | 4.08         |
| SVOC            | Isophorone                  | 2400   | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | Naphthalene                 | 17     | mg/kg | 1.16         | 3.09         | 7.23         | 12.6         | 1.19         |
| SVOC            | Nitrobenzene                | 22     | mg/kg | 3.05 U       | 1.96 U       | 4.7 U        | 4.62 U       | 2.88 U       |
| SVOC            | Pentachlorophenol           | 4      | mg/kg | 18.3 U       | 11.8 U       | 28.2 U       | 27.7 U       | 17.3 UJ      |
| SVOC            | Phenanthrene                |        | mg/kg | 2.09         | 11.3         | 5.27         | 11.1         | 4.5          |
| SVOC            | Phenol                      | 250000 | mg/kg | 1.24 J       | 1.96 U       | 4.7 U        | 1.19 J       | 2.88 UJ      |
| SVOC            | Pyrene                      | 23000  | mg/kg | 0.842        | 6.94         | 2.83         | 5.13         | 25.2         |
| SVOC            | Pyridine                    | 1200   | mg/kg | 12.2 UJ      | 7.86 U       | 18.8 UJ      | 18.5 U       | 11.5 U       |

Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group           | Parameter                   | PAL        | Units      | Transect 11 |            |              | Transect 12 |              | Transect 13  | Transect 14  |
|---------------------------|-----------------------------|------------|------------|-------------|------------|--------------|-------------|--------------|--------------|--------------|
|                           |                             |            |            | TM-SD-54    | TM-SD-56   | TM-SD-57 (D) | TM-SD-59    | TM-SD-62 (D) | TM-SD-67 (D) | TM-SD-72 (D) |
|                           |                             |            |            | 11/20/2016  | 11/20/2016 | 11/20/2016   | 10/26/2016  | 10/26/2016   | 10/26/2016   | 10/26/2016   |
|                           |                             |            |            | Discrete    | Discrete   | Composite    | Discrete    | Composite    | Composite    | Composite    |
| Sample Location and Depth |                             | North 5-6' | South 4-5' | 4-6'        | North 3-4' | 3-4'         | 0-6.5'      | 0.5-4.5'     |              |              |
| VOC                       | 1,1,1,2-Tetrachloroethane   | 8.8        | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | 1,1,1-Trichloroethane       | 36000      | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | 1,1,2,2-Tetrachloroethane   | 2.7        | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | 1,1,2-Trichloroethane       | 5          | mg/kg      | 0.26 U      | 0.32 U     |              | 0.0037 U    |              | 2.2 UJ       |              |
| VOC                       | 1,1-Dichloroethane          | 16         | mg/kg      | 0.26 U      | 0.32 U     |              | 0.0025 J    |              | 2.2 UJ       |              |
| VOC                       | 1,1-Dichloroethene          | 1000       | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | 1,2-Dichloroethane          | 2          | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | 1,2-Dichloropropane         | 4.4        | mg/kg      | 0.6 U       | 0.74 U     |              | 0.0086 U    |              | 5.1 UJ       |              |
| VOC                       | 2-Butanone (MEK)            | 190000     | mg/kg      | 0.28 J      | 2.1 U      |              | 0.024 U     |              | 15 UJ        |              |
| VOC                       | 2-Hexanone                  | 1300       | mg/kg      | 1.7 U       | 2.1 U      |              | 0.024 UJ    |              | 15 UJ        |              |
| VOC                       | 4-Methyl-2-pentanone (MIBK) | 56000      | mg/kg      | 1.7 U       | 2.1 U      |              | 0.024 U     |              | 15 UJ        |              |
| VOC                       | Acetone                     | 670000     | mg/kg      | 0.83 B      | 0.96 B     |              | 0.033 J     |              | 53 UJ        |              |
| VOC                       | Benzene                     | 5.1        | mg/kg      | 0.15 J      | 0.21 U     |              | 0.00034 B   |              | 18 J         |              |
| VOC                       | Bromoform                   | 86         | mg/kg      | 0.69 U      | 0.85 U     |              | 0.0098 U    |              | 5.8 UJ       |              |
| VOC                       | Carbon disulfide            | 3500       | mg/kg      | 1.7 U       | 2.1 U      |              | 0.024 UJ    |              | 15 UJ        |              |
| VOC                       | Carbon tetrachloride        | 2.9        | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | Chlorobenzene               | 1300       | mg/kg      | 0.5         | 0.44       |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | Chloroethane                | 57000      | mg/kg      | 0.34 U      | 0.42 U     |              | 0.0049 U    |              | 2.9 UJ       |              |
| VOC                       | Chloroform                  | 1.4        | mg/kg      | 0.26 U      | 0.32 U     |              | 0.0037 U    |              | 2.2 UJ       |              |
| VOC                       | cis-1,3-Dichloropropene     |            | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | Ethylbenzene                | 25         | mg/kg      | 0.073 J     | 0.21 U     |              | 0.0014 J    |              | 2.6 J        |              |
| VOC                       | Methylene Chloride          | 1000       | mg/kg      | 1.7 U       | 2.1 U      |              | 0.024 U     |              | 15 UJ        |              |
| VOC                       | Tetrachloroethene           | 100        | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | Toluene                     | 47000      | mg/kg      | 0.52        | 0.32 U     |              | 0.0037 U    |              | 0.3 J        |              |
| VOC                       | trans-1,2-Dichloroethene    | 23000      | mg/kg      | 0.26 U      | 0.32 U     |              | 0.0037 U    |              | 2.2 UJ       |              |
| VOC                       | trans-1,3-Dichloropropene   |            | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | Trichloroethene             | 6          | mg/kg      | 0.17 U      | 0.21 U     |              | 0.0024 U    |              | 1.5 UJ       |              |
| VOC                       | Vinyl chloride              | 1.7        | mg/kg      | 0.34 U      | 0.42 U     |              | 0.0049 U    |              | 2.9 UJ       |              |
| VOC                       | Xylenes                     | 2800       | mg/kg      | 3.6         | 0.39 J     |              | 0.0062 J    |              | 4.9 J        |              |
| Metal                     | Antimony                    | 470        | mg/kg      | 5.86        | 5.57       |              | 5 J         |              | 8.4 J        |              |
| Metal                     | Arsenic                     | 3          | mg/kg      | 19.8        | 19.8       |              | 22          |              | 48 J         |              |
| Metal                     | Barium                      | 220000     | mg/kg      | 80.4        | 92.7       |              | 170         |              | 274 J        |              |
| Metal                     | Beryllium                   | 2300       | mg/kg      | 0.576 U     | 0.576 U    |              | 0.177 J     |              | 0.353 J      |              |
| Metal                     | Cadmium                     | 980        | mg/kg      | 3.46        | 4.35       |              | 8.89        |              | 0.206 UJ     |              |
| Metal                     | Chromium                    | 120000     | mg/kg      | 2310        | 3010       |              | 3880        |              | 9180 J       |              |
| Metal                     | Chromium VI                 | 6.3        | mg/kg      | 1.6 R       | 1.6 R      |              | 1.9 R       |              | 0.65 J-      |              |
| Metal                     | Cobalt                      | 350        | mg/kg      | 10.6        | 10.6       |              | 11.4        |              | 16.2 J       |              |
| Metal                     | Copper                      | 47000      | mg/kg      | 298         | 322        |              | 334         |              | 438 J        |              |
| Metal                     | Lead                        | 800        | mg/kg      | 224         | 220        |              | 261         |              | 444 J        |              |
| Metal                     | Mercury                     | 350        | mg/kg      | 0.978       | 0.835      |              | 0.927       |              | 1.63 J       |              |
| Metal                     | Nickel                      | 22000      | mg/kg      | 103         | 117        |              | 167         |              | 135 J        |              |
| Metal                     | Selenium                    | 5800       | mg/kg      | 3.84 U      | 3.84 U     |              | 5.36        |              | 2.18 J       |              |
| Metal                     | Silver                      | 5800       | mg/kg      | 6.45 J      | 7.11 J     |              | 5.78        |              | 10.4 J       |              |
| Metal                     | Thallium                    | 12         | mg/kg      | 0.384 U     | 0.384 U    |              | 0.234       |              | 0.362 J      |              |
| Metal                     | Tin                         | 700000     | mg/kg      | 1970        | 2830       |              | 2480        |              | 18900 J      |              |
| Metal                     | Vanadium                    | 5800       | mg/kg      | 192 UJ      | 192 UJ     |              | 190         |              | 78.5 J       |              |
| Metal                     | Zinc                        | 350000     | mg/kg      | 568         | 526        |              | 1740        |              | 1710 J       |              |

Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group | Parameter                   | PAL    | Units | Transect 11 |             |              | Transect 12 |              | Transect 13  | Transect 14  | Transect 15  | Transect 16  |
|-----------------|-----------------------------|--------|-------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
|                 |                             |        |       | TM-SD-54    | TM-SD-56    | TM-SD-57 (D) | TM-SD-59    | TM-SD-62 (D) | TM-SD-67 (D) | TM-SD-72 (D) | TM-SD-77 (D) | TM-SD-83 (D) |
|                 |                             |        |       | Sample Date | Sample Date | Sample Date  | Sample Date | Sample Date  | Sample Date  | Sample Date  | Sample Date  | Sample Date  |
|                 |                             |        |       | Sample Type | Sample Type | Sample Type  | Sample Type | Sample Type  | Sample Type  | Sample Type  | Sample Type  | Sample Type  |
|                 |                             |        |       | Discrete    | Discrete    | Composite    | Discrete    | Composite    | Composite    | Composite    | Composite    |              |
|                 |                             |        |       | North 5-6'  | South 4-5'  | 4-6'         | North 3-4'  | 3-4'         | 0-6.5'       | 0.5-4.5'     | 3-4'         |              |
|                 |                             |        |       |             |             |              |             |              |              |              |              |              |
| SVOC            | 1,2,4-Trichlorobenzene      | 110    | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 1,2-Dichlorobenzene         | 9300   | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 1,3-Dichlorobenzene         |        | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 UJ      | 15 UJ        | 8.02 UJ      | 2.59 UJ      |
| SVOC            | 1,4-Dichlorobenzene         | 11     | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 UJ      | 15 UJ        | 8.02 UJ      | 2.59 UJ      |
| SVOC            | 2,4,5-Trichlorophenol       | 82000  | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2,4,6-Trichlorophenol       | 210    | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2,4-Dichlorophenol          | 2500   | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2,4-Dimethylphenol          | 16000  | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2,4-Dinitrophenol           | 1600   | mg/kg |             |             | 55.1 UJ      |             | 25.5 U       | 46.9 U       | 89.8 UJ      | 48.1 U       | 15.5 U       |
| SVOC            | 2,4-Dinitrotoluene          | 7.4    | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2,6-Dinitrotoluene          | 1.5    | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2-Chloronaphthalene         | 60000  | mg/kg |             |             | 0.752 U      |             | 0.656 U      | 0.838 U      | 1.54 UJ      | 0.854 U      | 0.656 U      |
| SVOC            | 2-Chlorophenol              | 5800   | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2-Methylnaphthalene         | 3000   | mg/kg |             |             | 0.619 B      |             | 0.385 B      | 6.44         | 9.07 J       | 5.03         | 0.909        |
| SVOC            | 2-Methylphenol              | 41000  | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 2-Nitrophenol               |        | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 3,3'-Dichlorobenzidine      | 5.1    | mg/kg |             |             | 18.4 U       |             | 8.5 U        | 15.6 U       | 29.9 UJ      | 16 U         | 5.18 U       |
| SVOC            | 4,6-Dinitro-2-methylphenol  | 66     | mg/kg |             |             | 55.1 U       |             | 25.5 U       | 46.9 U       | 89.8 UJ      | 48.1 U       | 15.5 U       |
| SVOC            | 4-Bromophenyl phenyl ether  |        | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 4-Chloro-3-methylphenol     | 82000  | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 4-Chlorophenyl phenyl ether |        | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 4-Methylphenol              | 82000  | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | 4-Nitrophenol               |        | mg/kg |             |             | 152 U        |             | 70.5 U       | 130 U        | 248 UJ       | 133 U        | 43 U         |
| SVOC            | Acenaphthene                | 45000  | mg/kg |             |             | 1.92         |             | 0.408 B      | 1.06         | 4.14 J       | 1.04         | 0.166 B      |
| SVOC            | Acenaphthylene              | 45000  | mg/kg |             |             | 0.198 J      |             | 0.22 B       | 0.262 B      | 12 J         | 0.272 B      | 0.181 B      |
| SVOC            | Anthracene                  | 230000 | mg/kg |             |             | 1.04         |             | 0.691        | 1.42         | 2.53 J       | 1.47         | 0.206 J      |
| SVOC            | Benzo[a]anthracene          | 21     | mg/kg |             |             | 1.58         |             | 1.72         | 1.91         | 2.41 J       | 1.21         | 0.47 J       |
| SVOC            | Benzo[a]pyrene              | 2.1    | mg/kg |             |             | 1.37         |             | 0.919        | 1.07         | 1.28 J       | 1.31         | 0.312 J      |
| SVOC            | Benzo[b]fluoranthene        | 21     | mg/kg |             |             | 1.05         |             | 1            | 1.02         | 0.935 J      | 1.29         | 0.169 J      |
| SVOC            | Benzo[g,h,i]perylene        |        | mg/kg |             |             | 0.48 B       |             | 0.472 J      | 0.602 J      | 0.609 J      | 0.741 J      | 0.204 J      |
| SVOC            | Benzo[k]fluoranthene        | 210    | mg/kg |             |             | 0.477 J      |             | 0.621 J      | 0.902        | 0.76 J       | 0.917        | 0.239 J      |
| SVOC            | bis(2-chloroethoxy)methane  | 2500   | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | bis(2-Chloroethyl)ether     | 1      | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | bis(2-Chloroisopropyl)ether | 22     | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | bis(2-Ethylhexyl)phthalate  | 160    | mg/kg |             |             | 24.8         |             | 13           | 34.8         | 55.2 J       | 19.8         | 7.82         |
| SVOC            | Butylbenzylphthalate        | 1200   | mg/kg |             |             | 7.88 J       |             | 4.25 U       | 2.49 J       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Dibenz[a,h]anthracene       | 2.1    | mg/kg |             |             | 0.752 U      |             | 0.656 U      | 0.172 J      | 1.54 UJ      | 0.854 U      | 0.656 U      |
| SVOC            | Diethylphthalate            | 660000 | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Dimethylphthalate           |        | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Di-n-butylphthalate         | 82000  | mg/kg |             |             | 9.18 U       |             | 2.68 U       | 3.77 B       | 3.11 B       | 2.16 B       | 0.819 B      |
| SVOC            | Di-n-octylphthalate         | 8200   | mg/kg |             |             | 18.4 U       |             | 8.5 U        | 15.6 U       | 29.9 UJ      | 16 U         | 5.18 U       |
| SVOC            | Fluoranthene                | 30000  | mg/kg |             |             | 5.16         |             | 3.78         | 4.16         | 6.08 J       | 4.73         | 1.02         |
| SVOC            | Fluorene                    | 30000  | mg/kg |             |             | 1.77         |             | 1.21         | 2.75         | 5.74 J       | 3.05         | 0.507 B      |
| SVOC            | Hexachlorobenzene           | 0.96   | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Hexachlorobutadiene         | 5.3    | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Hexachlorocyclopentadiene   | 7.5    | mg/kg |             |             | 55.1 UJ      |             | 25.5 U       | 46.9 UJ      | 89.8 UJ      | 48.1 UJ      | 15.5 UJ      |
| SVOC            | Hexachloroethane            | 8      | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 UJ      | 15 UJ        | 8.02 UJ      | 2.59 UJ      |
| SVOC            | Indeno[1,2,3-c,d]pyrene     | 21     | mg/kg |             |             | 0.262 J      |             | 0.712        | 0.912        | 1.09 J       | 1.03         | 0.436 J      |
| SVOC            | Isophorone                  | 2400   | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Naphthalene                 | 17     | mg/kg |             |             | 0.258 B      |             | 0.553 J      | 3.45         | 137 J        | 4.13         | 1.2          |
| SVOC            | Nitrobenzene                | 22     | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Pentachlorophenol           | 4      | mg/kg |             |             | 55.1 U       |             | 25.5 U       | 46.9 U       | 89.8 UJ      | 48.1 U       | 15.5 U       |
| SVOC            | Phenanthrene                |        | mg/kg |             |             | 7.83         |             | 6.05         | 16.8         | 7.62 J       | 17.1         | 1.41         |
| SVOC            | Phenol                      | 250000 | mg/kg |             |             | 9.18 U       |             | 4.25 U       | 7.82 U       | 15 UJ        | 8.02 U       | 2.59 U       |
| SVOC            | Pyrene                      | 23000  | mg/kg |             |             | 5.85         |             | 2.99         | 3.93         | 5.96 J       | 4.46         | 0.924        |
| SVOC            | Pyridine                    | 1200   | mg/kg |             |             | 36.7 U       |             | 17 U         | 31.3 UJ      | 59.9 UJ      | 32.1 UJ      | 10.4 UJ      |

Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group | Parameter    | Sample Location and Depth |             |             |             |              |             |              |             |              |             |              |             |              |           |
|-----------------|--------------|---------------------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-----------|
|                 |              | PAL                       | Units       | Transect 5  |             | Transect 5-1 |             | Transect 5-2 |             | Transect 5-3 |             | Transect 5-4 |             | Transect 5-5 |           |
|                 |              |                           |             | TM-SD-89    | TM-SD-90    | TM-SD-91     | TM-SD-92    | TM-SD-93     | TM-SD-94    | TM-SD-95     | TM-SD-96    | TM-SD-97     | TM-SD-98    | TM-SD-99     | TM-SD-100 |
|                 |              |                           |             | Discrete    | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete  |
| Center 0-1'     | Center 2-3'  | Center 0-1'               | Center 2-3' | Center 0-1' | Center 3-4' | Center 0-1'  | Center 3-4' | Center 0-1'  | Center 3-4' | Center 0-1'  | Center 3-4' | Center 0-1'  | Center 3-4' |              |           |
| PCB             | Aroclor 1016 | 27                        | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 UJ     | 0.5 U       | 0.646 UJ     | 0.48 UJ     | 0.519 UJ     | 0.595 UJ  |
| PCB             | Aroclor 1221 | 0.72                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | Aroclor 1232 | 0.72                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | Aroclor 1242 | 0.97                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | Aroclor 1248 | 0.94                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | Aroclor 1254 | 0.97                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | Aroclor 1260 | 0.99                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 UJ     | 0.5 U       | 0.646 UJ     | 0.48 UJ     | 0.519 UJ     | 0.595 UJ  |
| PCB             | Aroclor 1262 |                           | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | Aroclor 1268 |                           | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |
| PCB             | PCBs (total) | 0.97                      | mg/kg       | 0.574 U     | 0.591 U     | 0.551 U      | 0.553 U     | 0.542 U      | 0.47 U      | 0.662 U      | 0.5 U       | 0.646 U      | 0.48 U      | 0.519 U      | 0.595 U   |

Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group           | Parameter    | PAL         | Units       | Transect 5-6 |             | Transect 5-7 |             | Transect 5-8 |             | Transect 6-1 |             | Transect 6 |            |
|---------------------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|------------|------------|
|                           |              |             |             | TM-SD-101    | TM-SD-102   | TM-SD-103    | TM-SD-104   | TM-SD-105    | TM-SD-106   | TM-SD-107    | TM-SD-108   | TM-SD-109  | TM-SD-110  |
|                           |              |             |             | 10/27/2016   | 10/27/2016  | 10/27/2016   | 10/27/2016  | 10/27/2016   | 10/27/2016  | 10/27/2016   | 10/27/2016  | 10/27/2016 | 10/27/2016 |
|                           |              |             |             | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete   | Discrete   |
| Sample Location and Depth |              | Center 0-1' | Center 3-4' | Center 0-1'  | Center 4-5' | Center 0-1'  | Center 4-5' | Center 0-1'  | Center 7-8' | Center 0-1'  | Center 4-5' |            |            |
| PCB                       | Aroclor 1016 | 27          | mg/kg       | 0.487 UJ     | 0.498 UJ    | 0.542 U      | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | Aroclor 1221 | 0.72        | mg/kg       | 0.487 U      | 0.498 U     | 0.542 U      | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | Aroclor 1232 | 0.72        | mg/kg       | 0.487 U      | 0.498 U     | 0.542 UJ     | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | Aroclor 1242 | 0.97        | mg/kg       | 0.487 U      | 0.498 U     | 0.542 U      | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | Aroclor 1248 | 0.94        | mg/kg       | 0.487 U      | 0.498 U     | 8.02 J       | 1.63 J      | 8.67 J       | 2.38 J      | 0.788 UJ     | 7.5 J       | 0.537 UJ   | 6.93 J     |
| PCB                       | Aroclor 1254 | 0.97        | mg/kg       | 0.487 U      | 0.498 U     | 0.542 U      | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | Aroclor 1260 | 0.99        | mg/kg       | 0.487 UJ     | 0.498 UJ    | 1.18 J       | 0.533 U     | 3.13 J       | 0.49 U      | 0.788 U      | 1.19        | 0.537 U    | 6 J        |
| PCB                       | Aroclor 1262 |             | mg/kg       | 0.487 U      | 0.498 U     | 0.542 U      | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | Aroclor 1268 |             | mg/kg       | 0.487 U      | 0.498 U     | 3.66 J       | 0.533 U     | 0.765 U      | 0.49 U      | 0.788 U      | 0.516 U     | 0.537 U    | 0.704 U    |
| PCB                       | PCBs (total) | 0.97        | mg/kg       | 0.487 U      | 0.498 U     | 12.9 J       | 1.63 J      | 11.8 J       | 2.38 J      | 0.788 U      | 8.69 J      | 0.537 U    | 12.9 J     |

Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group           | Parameter    | PAL         | Units       | Transect 6-2 |             | Transect 6-3 |             | Transect 6-4 |             | Transect 6-5 |             | Transect 6-6 |             |
|---------------------------|--------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                           |              |             |             | TM-SD-111    | TM-SD-112   | TM-SD-113    | TM-SD-114   | TM-SD-115    | TM-SD-116   | TM-SD-117    | TM-SD-118   | TM-SD-119    | TM-SD-120   |
|                           |              |             |             | Sample ID    | Sample Date | Sample ID    | Sample Date | Sample ID    | Sample Date | Sample ID    | Sample Date | Sample ID    | Sample Date |
|                           |              |             |             | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    | Discrete     | Discrete    |
| Sample Location and Depth |              | Center 0-1' | Center 4-5' | Center 0-1'  | Center 4-5' | Center 0-1'  | Center 4-5' | Center 0-1'  | Center 6-7' | Center 0-1'  | Center 7-8' |              |             |
| PCB                       | Aroclor 1016 | 27          | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 UJ     | 4.79 UJ     | 0.925 UJ     | 5.78 UJ     |
| PCB                       | Aroclor 1221 | 0.72        | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 U      | 4.79 U      | 0.925 U      | 5.78 U      |
| PCB                       | Aroclor 1232 | 0.72        | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 U      | 4.79 U      | 0.925 U      | 5.78 U      |
| PCB                       | Aroclor 1242 | 0.97        | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 U      | 4.79 U      | 0.925 U      | 5.78 U      |
| PCB                       | Aroclor 1248 | 0.94        | mg/kg       | 0.788 UJ     | 5.14 J      | 0.894 UJ     | 2.96 J      | 4.26 J       | 7.84 J      | 1.44 J       | 343 J       | 0.925 UJ     | 346 J       |
| PCB                       | Aroclor 1254 | 0.97        | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 U      | 4.79 U      | 0.925 U      | 5.78 U      |
| PCB                       | Aroclor 1260 | 0.99        | mg/kg       | 0.788 U      | 2.02        | 0.894 U      | 1.17 J      | 1.38         | 5.06 J      | 0.727 UJ     | 9.95 J      | 0.925 UJ     | 11.3 J      |
| PCB                       | Aroclor 1262 |             | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 U      | 4.79 U      | 0.925 U      | 5.78 U      |
| PCB                       | Aroclor 1268 |             | mg/kg       | 0.788 U      | 0.753 U     | 0.894 U      | 0.476 U     | 0.486 U      | 0.508 U     | 0.727 U      | 4.79 U      | 0.925 U      | 5.78 U      |
| PCB                       | PCBs (total) | 0.97        | mg/kg       | 0.788 U      | 7.16 J      | 0.894 U      | 4.13 J      | 5.64 J       | 12.9 J      | 1.44 J       | 353 J       | 0.925 UJ     | 357 J       |



Table 4 - Supplemental Investigation  
Sediment Analytical Results

| Parameter Group | Parameter    | PAL         | Units                     | Transect 6-7 |                 | Transect 6-8 |                 | Transect 6-9 |             | Transect 6-10 |                 | Transect 7  |                 |
|-----------------|--------------|-------------|---------------------------|--------------|-----------------|--------------|-----------------|--------------|-------------|---------------|-----------------|-------------|-----------------|
|                 |              |             |                           | TM-SD-121    | TM-SD-122       | TM-SD-123    | TM-SD-124       | TM-SD-125    | TM-SD-126   | TM-SD-127     | TM-SD-128       | TM-SD-129   | TM-SD-130       |
|                 |              |             |                           | 10/26/2016   | 10/26/2016      | 10/26/2016   | 10/26/2016      | 10/26/2016   | 10/26/2016  | 10/26/2016    | 10/26/2016      | 10/26/2016  | 10/26/2016      |
|                 |              |             |                           | Discrete     | Discrete        | Discrete     | Discrete        | Discrete     | Discrete    | Discrete      | Discrete        | Discrete    | Discrete        |
| Sample ID       | Sample Date  | Sample Type | Sample Location and Depth | Center 0-1'  | Center 5.5-6.5' | Center 0-1'  | Center 7.5-8.5' | Center 0-1'  | Center 5-6' | Center 0-1'   | Center 4.5-5.5' | Center 0-1' | Center 4.5-5.5' |
| PCB             | Aroclor 1016 | 27          | mg/kg                     | 0.779 UJ     | 0.594 UJ        | 0.719 UJ     | 3.81 UJ         | 0.754 UJ     | 0.592 UJ    | 0.586 UJ      | 0.528 UJ        | 0.532 UJ    | 0.571 UJ        |
| PCB             | Aroclor 1221 | 0.72        | mg/kg                     | 0.779 U      | 0.594 U         | 0.719 U      | 3.81 U          | 0.754 U      | 0.592 U     | 0.586 U       | 0.528 U         | 0.532 U     | 0.571 U         |
| PCB             | Aroclor 1232 | 0.72        | mg/kg                     | 0.779 U      | 0.594 U         | 0.719 U      | 3.81 U          | 0.754 U      | 0.592 U     | 0.586 U       | 0.528 U         | 0.532 U     | 0.571 U         |
| PCB             | Aroclor 1242 | 0.97        | mg/kg                     | 0.779 U      | 0.594 U         | 0.719 U      | 3.81 U          | 0.754 U      | 0.592 U     | 0.586 U       | 0.528 U         | 0.532 U     | 0.571 U         |
| PCB             | Aroclor 1248 | 0.94        | mg/kg                     | 0.779 UJ     | 34 J            | 1.49 J       | 202 J           | 1.62 J       | 5.21 J      | 0.959 J       | 3.75 J          | 0.88 J      | 2.19 J          |
| PCB             | Aroclor 1254 | 0.97        | mg/kg                     | 0.779 U      | 0.594 U         | 0.719 U      | 3.81 U          | 0.754 U      | 0.592 U     | 0.586 U       | 0.528 U         | 0.532 U     | 0.571 U         |
| PCB             | Aroclor 1260 | 0.99        | mg/kg                     | 0.779 UJ     | 2.38 J          | 0.719 UJ     | 11.5 J          | 1.17 J       | 1.53 J      | 0.586 UJ      | 1.81 J          | 0.532 UJ    | 1.39 J          |
| PCB             | Aroclor 1262 |             | mg/kg                     | 0.779 U      | 0.594 U         | 0.719 U      | 3.81 U          | 0.754 U      | 0.592 U     | 0.586 U       | 0.528 U         | 0.532 U     | 0.571 U         |
| PCB             | Aroclor 1268 |             | mg/kg                     | 0.779 U      | 0.594 U         | 0.719 U      | 3.81 U          | 0.754 U      | 0.592 U     | 0.586 U       | 0.528 U         | 0.532 U     | 0.571 U         |
| PCB             | PCBs (total) | 0.97        | mg/kg                     | 0.779 UJ     | 36.4 J          | 1.49 J       | 214 J           | 2.79 J       | 6.74 J      | 0.959 J       | 5.56 J          | 0.88 J      | 3.58 J          |

Table 5 - Adjusted RSL Comparison

| Parameter                   | Parameter Group | CAS#       | # of Results | # of Detections | Max MDL | Unit  | Final Flag | Sample ID of Max MDL | Sample Date of Max MDL | Max Detection | Unit  | Final Flag | Sample ID of Max Detection | Sample Date of Max Detection | Haz Waste Cancer RSL | Haz Waste Non-Cancer RSL | Max MDL > Haz Waste Cancer RSL? | Max MDL > Haz Waste Non-Cancer RSL? | Max Detection > Haz Waste Cancer RSL? | Max Detection > Haz Waste Non-Cancer RSL? |
|-----------------------------|-----------------|------------|--------------|-----------------|---------|-------|------------|----------------------|------------------------|---------------|-------|------------|----------------------------|------------------------------|----------------------|--------------------------|---------------------------------|-------------------------------------|---------------------------------------|---|
| 1,1,1,2-Tetrachloroethane   | VOC             | 630-20-6   | 68           | 0               | 0.46    | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              |               |       |            |                            |                              | 875                  | 350000                   | no                              | no                                  | no                                    | no  |
| 1,1,1-Trichloroethane       | VOC             | 71-55-6    | 68           | 0               | 0.594   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              |                      | 356000                   | no                              | no                                  | no                                    | no  |
| 1,1,2,2-Tetrachloroethane   | VOC             | 79-34-5    | 68           | 0               | 0.402   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 267                  | 234000                   | no                              | no                                  | no                                    | no  |
| 1,1,2-Trichloroethane       | VOC             | 79-00-5    | 68           | 0               | 0.44    | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              |               |       |            |                            |                              | 505                  | 63.1                     | no                              | no                                  | no                                    | no  |
| 1,1-Dichloroethane          | VOC             | 75-34-3    | 68           | 1               | 0.755   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 0.0025        | mg/kg | J          | TM-SD-59                   | 26-Oct-16                    | 1550                 | 2340000                  | no                              | no                                  | no                                    | no  |
| 1,1-Dichloroethene          | VOC             | 75-35-4    | 68           | 0               | 0.824   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              |                      | 9950                     | no                              | no                                  | no                                    | no  |
| 1,2,4-Trichlorobenzene      | VOC             | 120-82-1   | 43           | 33              | 499     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 0.46          | mg/kg | J          | TM-SD-36 (D)               | 26-Oct-16                    | 11300                | 2560                     | no                              | no                                  | no                                    | no  |
| 1,2-Dichlorobenzene         | VOC             | 95-50-1    | 43           | 30              | 686     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 93300                    | no                              | no                                  | no                                    | no  |
| 1,2-Dichloroethane          | VOC             | 107-06-2   | 68           | 0               | 0.304   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 204                  | 1370                     | no                              | no                                  | no                                    | no  |
| 1,2-Dichloropropane         | VOC             | 78-87-5    | 68           | 0               | 0.345   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 124                  | 663                      | no                              | no                                  | no                                    | no  |
| 1,3-Dichlorobenzene         | VOC             | 541-73-1   | 43           | 30              | 585     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| 1,4-Dichlorobenzene         | VOC             | 106-46-7   | 43           | 30              | 725     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 1140                 | 253000                   | no                              | no                                  | no                                    | no  |
| 2-Butanone (MEK)            | VOC             | 78-93-3    | 68           | 12              | 0.606   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 1.41          | mg/kg | R          | TM-SD-74D Dup              | 14-Aug-15                    |                      | 1930000                  | no                              | no                                  | no                                    | no  |
| 2-Hexanone                  | VOC             | 591-78-6   | 68           | 0               | 0.97    | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              |               |       |            |                            |                              |                      | 13400                    | no                              | no                                  | no                                    | no  |
| 4-Methyl-2-pentanone (MIBK) | VOC             | 108-10-1   | 68           | 2               | 0.488   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 0.246         | mg/kg | J          | TM-SD-08                   | 14-Apr-15                    |                      | 1390000                  | no                              | no                                  | no                                    | no  |
| Acetone                     | VOC             | 67-64-1    | 68           | 14              | 1.5     | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              | 1.03          | mg/kg |            | TM-SD-16                   | 16-Apr-15                    |                      | 6700000                  | no                              | no                                  | no                                    | no  |
| Benzene                     | VOC             | 71-43-2    | 68           | 11              | 0.391   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 18            | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    | 508                  | 4230                     | no                              | no                                  | no                                    | no  |
| Bromoform                   | VOC             | 75-25-2    | 68           | 0               | 1.18    | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 8570                 | 234000                   | no                              | no                                  | no                                    | no  |
| Carbon disulfide            | VOC             | 75-15-0    | 68           | 1               | 1.6     | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              | 0.506         | mg/kg |            | TM-SD-86                   | 20-Apr-15                    |                      | 34700                    | no                              | no                                  | no                                    | no  |
| Carbon tetrachloride        | VOC             | 56-23-5    | 68           | 0               | 1.28    | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 287                  | 5740                     | no                              | no                                  | no                                    | no  |
| Chlorobenzene               | VOC             | 108-90-7   | 68           | 14              | 0.51    | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              | 8.44          | mg/kg |            | TM-SD-49                   | 20-Apr-15                    |                      | 13300                    | no                              | no                                  | no                                    | no  |
| Chloroethane                | VOC             | 75-00-3    | 68           | 0               | 0.534   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              |                      | 567000                   | no                              | no                                  | no                                    | no  |
| Chloroform                  | VOC             | 67-66-3    | 68           | 0               | 0.781   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 138                  | 10300                    | no                              | no                                  | no                                    | no  |
| cis-1,3-Dichloropropene     | VOC             | 10061-01-5 | 68           | 0               | 0.376   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| Ethylbenzene                | VOC             | 100-41-4   | 68           | 10              | 0.29    | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 2.6           | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    | 2540                 | 205000                   | no                              | no                                  | no                                    | no  |
| Methylene Chloride          | VOC             | 75-09-2    | 68           | 0               | 1.6     | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              |               |       |            |                            |                              | 102000               | 31600                    | no                              | no                                  | no                                    | no  |
| Tetrachloroethene           | VOC             | 127-18-4   | 68           | 0               | 0.841   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 10300                | 3890                     | no                              | no                                  | no                                    | no  |
| Toluene                     | VOC             | 108-88-3   | 68           | 23              | 1.26    | mg/kg | UJ         | TM-SD-27             | 17-Apr-15              | 73.1          | mg/kg |            | TM-SD-27                   | 17-Apr-15                    |                      | 468000                   | no                              | no                                  | no                                    | no  |
| trans-1,2-Dichloroethene    | VOC             | 156-60-5   | 68           | 0               | 0.844   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              |                      | 234000                   | no                              | no                                  | no                                    | no  |
| trans-1,3-Dichloropropene   | VOC             | 10061-02-6 | 68           | 0               | 0.29    | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| Trichloroethene             | VOC             | 79-01-6    | 68           | 0               | 0.638   | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 604                  | 187                      | no                              | no                                  | no                                    | no  |
| Vinyl chloride              | VOC             | 75-01-4    | 68           | 0               | 0.83    | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              |               |       |            |                            |                              | 168                  | 3740                     | no                              | no                                  | no                                    | no  |
| Xylenes                     | VOC             | 1330-20-7  | 68           | 28              | 0.816   | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 13.8          | mg/kg |            | TM-SD-50                   | 13-Aug-15                    |                      | 24900                    | no                              | no                                  | no                                    | no  |
| Antimony                    | Inorganic       | 7440-36-0  | 68           | 34              | 10.8    | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 39.6          | mg/kg | J-         | TM-SD-186 Dup              | 20-Apr-15                    |                      | 4670                     | no                              | no                                  | no                                    | no  |
| Arsenic                     | Inorganic       | 7440-38-2  | 68           | 68              | 1.7     | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 132           | mg/kg | J          | TM-SD-64                   | 13-Aug-15                    | 300                  | 4790                     | no                              | no                                  | no                                    | no  |
| Barium                      | Inorganic       | 7440-39-3  | 68           | 68              | 0.62    | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 783           | mg/kg | J          | TM-SD-64                   | 13-Aug-15                    |                      | 2170000                  | no                              | no                                  | no                                    | no  |
| Beryllium                   | Inorganic       | 7440-41-7  | 68           | 63              | 0.167   | mg/kg | U          | TM-SD-54             | 20-Nov-16              | 1.2           | mg/kg | J          | TM-SD-01                   | 14-Apr-15                    | 695000               | 22900                    | no                              | no                                  | no                                    | no  |
| Beryllium                   | Inorganic       | 7440-41-7  | 68           | 63              | 0.167   | mg/kg | U          | TM-SD-56             | 20-Nov-16              | 1.2           | mg/kg | J          | TM-SD-01                   | 14-Apr-15                    | 695000               | 22900                    | no                              | no                                  | no                                    | no  |
| Cadmium                     | Inorganic       | 7440-43-9  | 68           | 59              | 0.3     | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 14.9          | mg/kg | J          | TM-SD-03                   | 14-Apr-15                    | 926000               | 9820                     | no                              | no                                  | no                                    | no  |
| Chromium                    | Inorganic       | 7440-47-3  | 68           | 68              | 2.41    | mg/kg | J          | TM-SD-72 (D)         | 26-Oct-16              | 15000         | mg/kg | J          | TM-SD-64                   | 13-Aug-15                    |                      |                          | no                              | no                                  | no                                    | no  |
| Chromium VI                 | Inorganic       | 18540-29-9 | 68           | 30              | 1.8     | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 3.1           | mg/kg | R          | TM-SD-65                   | 20-Apr-15                    | 633                  | 34800                    | no                              | no                                  | no                                    | no  |
| Cobalt                      | Inorganic       | 7440-48-4  | 68           | 68              | 0.29    | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 386           | mg/kg | J-         | TM-SD-03                   | 14-Apr-15                    | 185000               | 3470                     | no                              | no                                  | no                                    | no  |
| Copper                      | Inorganic       | 7440-50-8  | 68           | 68              | 1.5     | mg/kg |            | TM-SD-186 Dup        | 20-Apr-15              | 10800         | mg/kg |            | TM-SD-186 Dup              | 20-Apr-15                    |                      | 467000                   | no                              | no                                  | no                                    | no  |
| Lead                        | Inorganic       | 7439-92-1  | 68           | 68              | 1.9     | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 1500          | mg/kg | J+         | TM-SD-186 Dup              | 20-Apr-15                    |                      | 8000                     | no                              | no                                  | no                                    | no  |
| Mercury                     | Inorganic       | 7439-97-6  | 68           | 68              | 0.011   | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 1.63          | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    |                      | 3500                     | no                              | no                                  | no                                    | no  |
| Nickel                      | Inorganic       | 7440-02-0  | 68           | 68              | 1       | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 508           | mg/kg |            | TM-SD-80                   | 14-Aug-15                    | 6410000              | 224000                   | no                              | no                                  | no                                    | no  |
| Selenium                    | Inorganic       | 7782-49-2  | 68           | 64              | 2.4     | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 18.2          | mg/kg |            | TM-SD-03                   | 14-Apr-15                    |                      | 58400                    | no                              | no                                  | no                                    | no  |
| Silver                      | Inorganic       | 7440-22-4  | 68           | 68              | 0.25    | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 20.9          | mg/kg | J          | TM-SD-64                   | 13-Aug-15                    |                      | 58400                    | no                              | no                                  | no                                    | no  |
| Thallium                    | Inorganic       | 7440-28-0  | 68           | 5               | 2.1     | mg/kg | UJ         | TM-SD-64             | 13-Aug-15              | 1.8           | mg/kg | B          | TM-SD-03                   | 14-Apr-15                    |                      | 117                      | no                              | no                                  | no                                    | no  |
| Tin                         | Inorganic       | 7440-31-5  | 68           | 68              | 5.2     | mg/kg | J          | TM-SD-64             | 13-Aug-15              | 39400         | mg/kg | J          | TM-SD-64                   | 13-Aug-15                    |                      | 7010000                  | no                              | no                                  | no                                    | no  |
| Vanadium                    | Inorganic       | 7440-62-2  | 68           | 66              | 72.8    | mg/kg | UJ         | TM-SD-54             | 20-Nov-16              | 980           | mg/kg | J          | TM-SD-01                   | 14-Apr-15                    |                      | 58300                    | no                              | no                                  | no                                    | no  |
| Vanadium                    | Inorganic       | 7440-62-2  | 68           | 66              | 72.8    | mg/kg | UJ         | TM-SD-56             | 20-Nov-16              | 980           | mg/kg | J          | TM-SD-01                   | 14-Apr-15                    |                      | 58300                    | no                              | no                                  | no                                    | no  |
| Zinc                        | Inorganic       | 7440-66-6  | 68           | 68              | 4.99    | mg/kg |            | TM-SD-54             | 20-Nov-16              | 7870          | mg/kg |            | TM-SD-86                   | 20-Apr-15                    |                      | 3500000                  | no                              | no                                  | no                                    | no  |
| Zinc                        | Inorganic       | 7440-66-6  | 68           | 68              | 4.99    | mg/kg |            | TM-SD-56             | 20-Nov-16              | 7870          | mg/kg |            | TM-SD-86                   | 20-Apr-15                    |                      | 3500000                  | no                              | no                                  | no                                    | no  |
| Cyanide                     | Inorganic       | 57-12-5    | 31           | 30              | 3.6     | mg/kg | J          | TM-SD-62 (D)         | 13-Aug-15              | 18.7          | mg/kg | J          | TM-SD-62 (D)               | 13-Aug-15                    |                      | 1470                     | no                              | no                                  | no                                    | no  |
| Aroclor 1016                | PCB             | 12674-11-2 | 73           | 0               | 6.02    | mg/kg | U          | TM-SD-31 (D)         | 12-Aug-15              |               |       |            |                            |                              | 2750                 | 513                      | no                              | no                                  | no                                    | no  |
| Aroclor 1221                | PCB             | 11104-28-2 | 73           | 0               | 5.78    | mg/kg | U          | TM-SD-120            | 26-Oct-16              |               |       |            |                            |                              | 83.2                 |                          | no                              | no                                  | no                                    | no  |
| Aroclor 1232                | PCB             | 11141-16-5 | 73           | 0               | 8.65    | mg/kg | U          | TM-SD-31 (D)         | 12-Aug-15              |               |       |            |                            |                              | 71.9                 |                          | no                              | no                                  | no                                    | no  |
| Aroclor 1242                | PCB             | 53469-21-9 | 73           | 7               | 5.78    | mg/kg | U          | TM-SD-120            | 26-Oct-16              | 233           | mg/kg |            | TM-SD-31 (D)               | 12-Aug-15                    |                      | 95                       | no                              | no                                  | YES                                   | no  |
| Aroclor 1248                | PCB             | 12672-29-6 | 73           | 23              | 8.12    | mg/kg | U          | TM-SD-31 (D)         | 12-Aug-15              | 346           | mg/kg | J          | TM-SD-120                  | 26-Oct-16                    | 95.4                 |                          | no                              | no                                  | YES                                   | no  |
| Aroclor 1254                | PCB             | 11097-69-1 | 73           | 10              | 5.78    | mg/kg | U          | TM-SD-120            | 26-Oct-16              | 4.8           | mg/kg |            | TM-SD-36 (D)               | 13-Aug-15                    | 97.2                 | 147                      | no                              | no                                  | no                                    | no  |
| Aroclor 1260                | PCB             | 11096-82-5 | 42           | 16              | 5.78    | mg/kg | J          | TM-SD-120            | 26-Oct-16              | 11.5          | mg/kg | J          | TM-SD-124                  | 26-Oct-16                    | 99.1                 |                          | no                              | no                                  | no                                    | no  |
| Aroclor 1262                | PCB             | 37324-23-5 | 42           | 0               | 5.78    | mg/kg | U          | TM-SD-120            | 26-Oct-16              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| Aroclor 1268                | PCB             | 11100-14-4 | 42           | 1               | 5.78    | mg/kg | U          | TM-SD-120            | 26-Oct-16              | 3.66          | mg/kg | J          | TM-SD-103                  | 27-Oct-16                    |                      |                          | no                              | no                                  | no                                    | no  |
| PCBs (total)                | PCB             | 1336-36-3  | 42           | 22              | 5.78    | mg/kg | J          | TM-SD-120            | 26-Oct-16              | 357           | mg/kg | J          | TM-SD-120                  | 26-Oct-16                    | 94.2                 |                          | no                              | no                                  | YES                                   | no  |

Table 5 - Adjusted RSL Comparison

| Parameter                    | Parameter Group | CAS#              | # of Results | # of Detections | Max MDL | Unit  | Final Flag | Sample ID of Max MDL | Sample Date of Max MDL | Max Detection | Unit  | Final Flag | Sample ID of Max Detection | Sample Date of Max Detection | Haz Waste Cancer RSL | Haz Waste Non-Cancer RSL | Max MDL > Haz Waste Cancer RSL? | Max MDL > Haz Waste Non-Cancer RSL? | Max Detection > Haz Waste Cancer RSL? | Max Detection > Haz Waste Non-Cancer RSL? |
|------------------------------|-----------------|-------------------|--------------|-----------------|---------|-------|------------|----------------------|------------------------|---------------|-------|------------|----------------------------|------------------------------|----------------------|--------------------------|---------------------------------|-------------------------------------|---------------------------------------|---|
| 2,4,5-Trichlorophenol        | SVOC            | 95-95-4           | 43           | 30              | 795     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 821000                   | no                              | no                                  | no                                    | no  |
| 2,4,6-Trichlorophenol        | SVOC            | 88-06-2           | 43           | 30              | 569     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 20900                | 8210                     | no                              | no                                  | no                                    | no  |
| 2,4-Dichlorophenol           | SVOC            | 120-83-2          | 43           | 30              | 561     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 24600                    | no                              | no                                  | no                                    | no  |
| 2,4-Dimethylphenol           | SVOC            | 105-67-9          | 43           | 34              | 1010    | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 9.09          | mg/kg |            | TM-SD-31 (D)               | 27-Oct-16                    |                      | 164000                   | no                              | no                                  | no                                    | no  |
| 2,4-Dinitrophenol            | SVOC            | 51-28-5           | 43           | 29              | 421     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 16400                    | no                              | no                                  | no                                    | no  |
| 2,4-Dinitrotoluene           | SVOC            | 121-14-2          | 43           | 29              | 483     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 737                  | 16300                    | no                              | no                                  | no                                    | no  |
| 2,6-Dinitrotoluene           | SVOC            | 606-20-2          | 43           | 30              | 538     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 154                  | 2470                     | YES                             | no                                  | no                                    | no  |
| 2-Chloronaphthalene          | SVOC            | 91-58-7           | 42           | 30              | 507     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 603000                   | no                              | no                                  | no                                    | no  |
| 2-Chlorophenol               | SVOC            | 95-57-8           | 43           | 30              | 702     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 58400                    | no                              | no                                  | no                                    | no  |
| 2-Methylnaphthalene          | SVOC            | 91-57-6           | 42           | 41              | 554     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 9.07          | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    |                      | 30100                    | no                              | no                                  | no                                    | no  |
| 2-Methylphenol               | SVOC            | 95-48-7           | 43           | 31              | 780     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 0.982         | mg/kg | J          | TM-SD-31 (D)               | 27-Oct-16                    |                      | 410000                   | no                              | no                                  | no                                    | no  |
| 2-Nitrophenol                | SVOC            | 88-75-5           | 43           | 30              | 624     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| 3&4-Methylphenol(m&p Cresol) | SVOC            | 108-39-4/106-44-5 | 31           | 30              | 1010    | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| 3,3'-Dichlorobenzidine       | SVOC            | 91-94-1           | 43           | 31              | 561     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 0.884         | mg/kg | J          | TM-SD-41 (D)               | 26-Oct-16                    |                      | 511                      | YES                             | no                                  | no                                    | no  |
| 3,3'-Dimethylbenzidine       | SVOC            | 119-93-7          | 31           | 30              | 421     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 20.9                     | YES                             | no                                  | no                                    | no  |
| 4,6-Dinitro-2-methylphenol   | SVOC            | 534-52-1          | 43           | 30              | 515     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 657                      | no                              | no                                  | no                                    | no  |
| 4-Bromophenyl phenyl ether   | SVOC            | 101-55-3          | 43           | 30              | 468     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| 4-Chloro-3-methylphenol      | SVOC            | 59-50-7           | 43           | 30              | 530     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 821000                   | no                              | no                                  | no                                    | no  |
| 4-Chlorophenyl phenyl ether  | SVOC            | 7005-72-3         | 43           | 30              | 530     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| 4-Methylphenol               | SVOC            | 106-44-5          | 12           | 3               | 1.96    | mg/kg | UJ         | TM-SD-72 (D)         | 26-Oct-16              | 61            | mg/kg |            | TM-SD-31 (D)               | 27-Oct-16                    |                      | 821000                   | no                              | no                                  | no                                    | no  |
| 4-Nitrophenol                | SVOC            | 100-02-7          | 43           | 30              | 460     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      |                          | no                              | no                                  | no                                    | no  |
| Acenaphthene                 | SVOC            | 83-32-9           | 42           | 41              | 593     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 10.7          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    |                      | 452000                   | no                              | no                                  | no                                    | no  |
| Acenaphthylene               | SVOC            | 208-96-8          | 42           | 41              | 608     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 12            | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    |                      |                          | no                              | no                                  | no                                    | no  |
| Anthracene                   | SVOC            | 120-12-7          | 42           | 41              | 577     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 9.9           | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    |                      | 2260000                  | no                              | no                                  | no                                    | no  |
| Benz[a]anthracene            | SVOC            | 56-55-3           | 42           | 41              | 476     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 10.1          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    | 2100                 |                          | no                              | no                                  | no                                    | no  |
| Benzo[a]pyrene               | SVOC            | 50-32-8           | 42           | 41              | 491     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 10.3          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    | 210                  | 2200                     | YES                             | no                                  | no                                    | no  |
| Benzo[b]fluoranthene         | SVOC            | 205-99-2          | 42           | 41              | 444     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 6.17          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    | 2100                 |                          | no                              | no                                  | no                                    | no  |
| Benzo[g,h,i]perylene         | SVOC            | 191-24-2          | 42           | 41              | 655     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 4.28          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    |                      |                          | no                              | no                                  | no                                    | no  |
| Benzo[k]fluoranthene         | SVOC            | 207-08-9          | 42           | 41              | 507     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 5.02          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    | 21000                |                          | no                              | no                                  | no                                    | no  |
| bis(2-chloroethoxy)methane   | SVOC            | 111-91-1          | 43           | 30              | 600     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 24600                    | no                              | no                                  | no                                    | no  |
| bis(2-Chloroethyl)ether      | SVOC            | 111-44-4          | 43           | 30              | 655     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 103                  |                          | YES                             | no                                  | no                                    | no  |
| bis(2-Chloroisopropyl)ether  | SVOC            | 108-60-1          | 43           | 30              | 686     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 467000                   | no                              | no                                  | no                                    | no  |
| bis(2-Ethylhexyl)phthalate   | SVOC            | 117-81-7          | 43           | 43              | 702     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 55.2          | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    | 16400                | 164000                   | no                              | no                                  | no                                    | no  |
| Butylbenzylphthalate         | SVOC            | 85-68-7           | 43           | 33              | 546     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 7.88          | mg/kg | J          | TM-SD-57 (D)               | 20-Nov-16                    | 121000               | 1640000                  | no                              | no                                  | no                                    | no  |
| Dibenz[a,h]anthracene        | SVOC            | 53-70-3           | 42           | 34              | 546     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 1.04          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    | 210                  |                          | YES                             | no                                  | no                                    | no  |
| Diethylphthalate             | SVOC            | 84-66-2           | 43           | 30              | 398     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 6570000                  | no                              | no                                  | no                                    | no  |
| Dimethylphthalate            | SVOC            | 131-11-3          | 43           | 30              | 522     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 73900                    | no                              | no                                  | no                                    | no  |
| Di-n-butylphthalate          | SVOC            | 84-74-2           | 43           | 39              | 421     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 3.77          | mg/kg | B          | TM-SD-67 (D)               | 26-Oct-16                    |                      | 821000                   | no                              | no                                  | no                                    | no  |
| Di-n-octylphthalate          | SVOC            | 117-84-0          | 43           | 30              | 538     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 82100                    | no                              | no                                  | no                                    | no  |
| Fluoranthene                 | SVOC            | 206-44-0          | 42           | 41              | 374     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 28.6          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    |                      | 301000                   | no                              | no                                  | no                                    | no  |
| Fluorene                     | SVOC            | 86-73-7           | 42           | 41              | 530     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 5.74          | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    |                      | 301000                   | no                              | no                                  | no                                    | no  |
| Hexachlorobenzene            | SVOC            | 118-74-1          | 43           | 30              | 327     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 96                   | 9340                     | YES                             | no                                  | no                                    | no  |
| Hexachlorobutadiene          | SVOC            | 87-68-3           | 43           | 30              | 444     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 526                  | 11700                    | no                              | no                                  | no                                    | no  |
| Hexachlorocyclopentadiene    | SVOC            | 77-47-4           | 43           | 30              | 476     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 74.5                     | no                              | YES                                 | no                                    | no  |
| Hexachloroethane             | SVOC            | 67-72-1           | 43           | 30              | 678     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 805                  | 4600                     | no                              | no                                  | no                                    | no  |
| Indeno[1,2,3-c,d]pyrene      | SVOC            | 193-39-5          | 42           | 40              | 530     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 4.08          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    | 2100                 |                          | no                              | no                                  | no                                    | no  |
| Isophorone                   | SVOC            | 78-59-1           | 43           | 30              | 577     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 242000               | 1640000                  | no                              | no                                  | no                                    | no  |
| Naphthalene                  | SVOC            | 91-20-3           | 42           | 41              | 631     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 137           | mg/kg | J          | TM-SD-72 (D)               | 26-Oct-16                    | 1670                 | 5850                     | no                              | no                                  | no                                    | no  |
| Nitrobenzene                 | SVOC            | 98-95-3           | 43           | 30              | 702     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 2240                 | 12900                    | no                              | no                                  | no                                    | no  |
| Pentachloroethane            | SVOC            | 76-01-7           | 31           | 30              | 1480    | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 3630                     | no                              | no                                  | no                                    | no  |
| Pentachlorophenol            | SVOC            | 87-86-5           | 43           | 30              | 468     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              | 397                  | 28400                    | YES                             | no                                  | no                                    | no  |
| Phenanthrene                 | SVOC            | 85-01-8           | 42           | 41              | 429     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 17.1          | mg/kg |            | TM-SD-77 (D)               | 26-Oct-16                    |                      |                          | no                              | no                                  | no                                    | no  |
| Phenol                       | SVOC            | 108-95-2          | 43           | 33              | 772     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 1.24          | mg/kg | J          | TM-SD-31 (D)               | 27-Oct-16                    |                      | 2460000                  | no                              | no                                  | no                                    | no  |
| Pyrene                       | SVOC            | 129-00-0          | 42           | 42              | 437     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              | 25.2          | mg/kg |            | TM-SD-51 (D)               | 20-Nov-16                    |                      | 226000                   | no                              | no                                  | no                                    | no  |
| Pyridine                     | SVOC            | 110-86-1          | 43           | 30              | 569     | mg/kg | RR         | TM-SD-72 (S)         | 17-Apr-15              |               |       |            |                            |                              |                      | 11700                    | no                              | no                                  | no                                    | no  |

**Table 6 - Tin Mill Canal  
COPC Screening Analysis**

| Parameter                   | CAS#       | Location of Max Result | Max Detection (mg/kg) | Final Flag | Min Detection (mg/kg) | Average Detection (mg/kg) | Total Samples | Frequency of Detection (%) | Cancer TR=1E-06 (mg/kg) | Non-Cancer HQ=0.1 (mg/kg) | COPC?      |
|-----------------------------|------------|------------------------|-----------------------|------------|-----------------------|---------------------------|---------------|----------------------------|-------------------------|---------------------------|------------|
| 1,1-Dichloroethane          | 75-34-3    | TM-SD-59               | 0.0025                | J          | 0.0025                | 0.47                      | 62            | 1.6                        | 15.5                    | 23,400                    | no         |
| 1,2,4-Trichlorobenzene      | 120-82-1   | TM-SD-36 (D)           | 0.46                  | J          | 0.214                 | 4.99                      | 12            | 25.0                       | 113                     | 25.6                      | no         |
| 2,4-Dimethylphenol          | 105-67-9   | TM-SD-31 (D)           | 9.09                  |            | 0.461                 | 5.50                      | 12            | 33.3                       |                         | 1,640                     | no         |
| 2-Butanone (MEK)            | 78-93-3    | TM-SD-35               | 0.486                 | J          | 0.0115                | 2.37                      | 116           | 19.0                       |                         | 19,300                    | no         |
| 2-Methylnaphthalene         | 91-57-6    | TM-SD-72 (D)           | 9.07                  | J          | 0.385                 | 3.16                      | 11            | 100.0                      |                         | 301                       | no         |
| 2-Methylphenol              | 95-48-7    | TM-SD-31 (D)           | 0.982                 | J          | 0.982                 | 5.39                      | 12            | 8.3                        |                         | 4,100                     | no         |
| 3,3'-Dichlorobenzidine      | 91-94-1    | TM-SD-41 (D)           | 0.884                 | J          | 0.884                 | 10.40                     | 12            | 8.3                        | 5.11                    |                           | no         |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1   | TM-SD-08               | 0.246                 | J          | 0.119                 | 1.13                      | 62            | 3.2                        |                         | 13,900                    | no         |
| 4-Methylphenol              | 106-44-5   | TM-SD-31 (D)           | 61                    |            | 1.23                  | 10.02                     | 12            | 25.0                       |                         | 8,210                     | no         |
| Acenaphthene                | 83-32-9    | TM-SD-51 (D)           | 10.7                  |            | 0.166                 | 2.28                      | 11            | 100.0                      |                         | 4,520                     | no         |
| Acenaphthylene              | 208-96-8   | TM-SD-72 (D)           | 12                    | J          | 0.0541                | 1.56                      | 11            | 100.0                      |                         |                           | no         |
| Acetone                     | 67-64-1    | TM-SD-16               | 1.03                  |            | 0.033                 | 1.71                      | 62            | 19.4                       |                         | 67,000                    | no         |
| Anthracene                  | 120-12-7   | TM-SD-51 (D)           | 9.9                   |            | 0.206                 | 2.05                      | 11            | 100.0                      |                         | 22,600                    | no         |
| Antimony                    | 7440-36-0  | TM-SD-55               | 19.7                  |            | 0.63                  | 4.79                      | 62            | 48.4                       |                         | 46.7                      | no         |
| Aroclor 1242                | 53469-21-9 | TM-SD-31 (D)           | 233                   |            | 1.76                  | 5.16                      | 71            | 8.5                        | 0.95                    |                           | YES (C)    |
| Aroclor 1248                | 12672-29-6 | TM-SD-120              | 346                   | J          | 0.125                 | 15.8                      | 71            | 32.4                       | 0.954                   |                           | YES (C)    |
| Aroclor 1254                | 11097-69-1 | TM-SD-36 (D)           | 4.8                   |            | 0.614                 | 2.00                      | 71            | 12.7                       | 0.972                   | 1.47                      | YES (C/NC) |
| Aroclor 1260                | 11096-82-5 | TM-SD-124              | 11.5                  | J          | 1.17                  | 1.86                      | 42            | 38.1                       | 0.991                   |                           | YES (C)    |
| Arsenic                     | 7440-38-2  | TM-SD-64               | 132                   | J          | 0.0049                | 15.4                      | 91            | 93.4                       | 3                       | 47.9                      | YES (C/NC) |
| Barium                      | 7440-39-3  | TM-SD-64               | 783                   | J          | 0.1                   | 85.1                      | 91            | 100.0                      |                         | 21,700                    | no         |
| Benzene                     | 71-43-2    | TM-SD-72 (D)           | 18                    | J          | 0.00034               | 0.45                      | 120           | 15.0                       | 5.08                    | 42.3                      | YES (C)    |
| Benzo[a]anthracene          | 56-55-3    | TM-SD-51 (D)           | 10.1                  |            | 0.47                  | 2.59                      | 11            | 100.0                      | 21                      |                           | no         |
| Benzo[a]pyrene              | 50-32-8    | TM-SD-51 (D)           | 10.3                  |            | 0.251                 | 2.13                      | 11            | 100.0                      | 2.1                     | 22                        | YES (C)    |
| Benzo[b]fluoranthene        | 205-99-2   | TM-SD-51 (D)           | 6.17                  |            | 0.169                 | 1.48                      | 11            | 100.0                      | 21                      |                           | no         |
| Benzo[g,h,i]perylene        | 191-24-2   | TM-SD-51 (D)           | 4.28                  |            | 0.12                  | 0.95                      | 11            | 100.0                      |                         |                           | no         |
| Benzo[k]fluoranthene        | 207-08-9   | TM-SD-51 (D)           | 5.02                  |            | 0.138                 | 1.21                      | 11            | 100.0                      | 210                     |                           | no         |
| Beryllium                   | 7440-41-7  | TM-SD-01               | 1.2                   | J          | 0.052                 | 0.22                      | 62            | 91.9                       | 6,950                   | 229                       | no         |
| bis(2-Ethylhexyl)phthalate  | 117-81-7   | TM-SD-72 (D)           | 55.2                  | J          | 7.82                  | 18.7                      | 12            | 100.0                      | 164                     | 1,640                     | no         |
| Butylbenzylphthalate        | 85-68-7    | TM-SD-57 (D)           | 7.88                  | J          | 1.84                  | 4.77                      | 12            | 25.0                       | 1,210                   | 16,400                    | no         |
| Cadmium                     | 7440-43-9  | TM-SD-03               | 14.9                  | J          | 0.00056               | 1.49                      | 91            | 68.1                       | 9,260                   | 98.2                      | no         |
| Carbon disulfide            | 75-15-0    | TM-SD-86               | 0.506                 |            | 0.506                 | 0.73                      | 62            | 1.6                        |                         | 347                       | no         |
| Chlorobenzene               | 108-90-7   | TM-SD-49               | 8.44                  |            | 0.004                 | 0.87                      | 120           | 19.2                       |                         | 133                       | no         |
| Chloroform                  | 67-66-3    | TM-SD-22 (D2)          | 0.006                 | B          | 0.0022                | 0.41                      | 120           | 15.0                       | 1.38                    | 103                       | no         |
| Chromium                    | 7440-47-3  | TM-SD-64               | 15,000                | J          | 0.00096               | 1,147                     | 91            | 100.0                      |                         |                           | no         |
| Chromium VI                 | 18540-29-9 | TM-SD-72 (D)           | 0.65                  | J          | 0.65                  | 1.67                      | 36            | 2.8                        | 6.33                    | 348                       | no         |
| Cobalt                      | 7440-48-4  | TM-SD-03               | 386                   | J-         | 6.9                   | 21.4                      | 62            | 100.0                      | 1,850                   | 34.7                      | YES (NC)   |
| Copper                      | 7440-50-8  | TM-SD-03               | 1,820                 |            | 94.5                  | 319                       | 62            | 100.0                      |                         | 4,670                     | no         |
| Cyanide                     | 57-12-5    | TM-SD-62 (D)           | 18.7                  | J          | 0.44                  | 3.97                      | 29            | 96.6                       |                         | 14.7                      | YES (NC)   |

**Table 6 - Tin Mill Canal  
COPC Screening Analysis**

| Parameter               | CAS#      | Location of Max Result | Max Detection (mg/kg) | Final Flag | Min Detection (mg/kg) | Average Detection (mg/kg) | Total Samples | Frequency of Detection (%) | Cancer TR=1E-06 (mg/kg) | Non-Cancer HQ=0.1 (mg/kg) | COPC?      |
|-------------------------|-----------|------------------------|-----------------------|------------|-----------------------|---------------------------|---------------|----------------------------|-------------------------|---------------------------|------------|
| Dibenz[a,h]anthracene   | 53-70-3   | TM-SD-51 (D)           | 1.04                  |            | 0.172                 | 0.69                      | 11            | 36.4                       | 2.1                     |                           | no         |
| Di-n-butylphthalate     | 84-74-2   | TM-SD-67 (D)           | 3.77                  | B          | 0.317                 | 2.67                      | 12            | 75.0                       |                         | 8,210                     | no         |
| Ethylbenzene            | 100-41-4  | TM-SD-72 (D)           | 2.6                   | J          | 0.0014                | 0.52                      | 62            | 16.1                       | 25.4                    | 2,050                     | no         |
| Fluoranthene            | 206-44-0  | TM-SD-51 (D)           | 28.6                  |            | 0.584                 | 6.67                      | 11            | 100.0                      |                         | 3,010                     | no         |
| Fluorene                | 86-73-7   | TM-SD-72 (D)           | 5.74                  | J          | 0.483                 | 2.52                      | 11            | 100.0                      |                         | 3,010                     | no         |
| Indeno[1,2,3-c,d]pyrene | 193-39-5  | TM-SD-51 (D)           | 4.08                  |            | 0.262                 | 1.16                      | 11            | 90.9                       | 21                      |                           | no         |
| Lead <sup>^</sup>       | 7439-92-1 | TM-SD-86               | 946                   | J+         | 0.0039                | 102                       | 91            | 84.6                       |                         | 800                       | YES (NC)   |
| Mercury                 | 7439-97-6 | TM-SD-72 (D)           | 1.63                  | J          | 0.02                  | 0.25                      | 91            | 68.1                       |                         | 4.56                      | no         |
| Naphthalene             | 91-20-3   | TM-SD-72 (D)           | 137                   | J          | 0.258                 | 15.6                      | 11            | 100.0                      | 16.7                    | 58.5                      | YES (C/NC) |
| Nickel                  | 7440-02-0 | TM-SD-80               | 508                   |            | 37.2                  | 159                       | 62            | 100.0                      | 64,100                  | 2,240                     | no         |
| PCBs (total)*           | 1336-36-3 | TM-SD-120              | 357                   | J          | 0.88                  | 40.4                      | 71            | 46.5                       | 0.942                   |                           | YES (C)    |
| Phenanthrene            | 85-01-8   | TM-SD-77 (D)           | 17.1                  |            | 1.41                  | 8.28                      | 11            | 100.0                      |                         |                           | no         |
| Phenol                  | 108-95-2  | TM-SD-31 (D)           | 1.24                  | J          | 1.19                  | 5.13                      | 12            | 16.7                       |                         | 24,600                    | no         |
| Pyrene                  | 129-00-0  | TM-SD-51 (D)           | 25.2                  |            | 0.842                 | 5.91                      | 11            | 100.0                      |                         | 2,260                     | no         |
| Selenium                | 7782-49-2 | TM-SD-03               | 18.2                  |            | 0.0047                | 1.74                      | 91            | 93.4                       |                         | 584                       | no         |
| Silver                  | 7440-22-4 | TM-SD-64               | 20.9                  | J          | 0.001                 | 5.06                      | 91            | 94.5                       |                         | 584                       | no         |
| Tetrachloroethene       | 127-18-4  | TM-SD-50               | 0.0221                | J          | 0.0221                | 0.26                      | 120           | 0.8                        | 103                     | 38.9                      | no         |
| Thallium                | 7440-28-0 | TM-SD-03               | 1.8                   | J          | 0.234                 | 2.41                      | 62            | 8.1                        |                         | 1.17                      | YES (NC)   |
| Tin                     | 7440-31-5 | TM-SD-64               | 39,400                | J          | 30.5                  | 2,337                     | 62            | 100.0                      |                         | 70,100                    | no         |
| Toluene                 | 108-88-3  | TM-SD-27               | 73.1                  |            | 0.101                 | 2.57                      | 62            | 33.9                       |                         | 4,680                     | no         |
| Vanadium                | 7440-62-2 | TM-SD-01               | 980                   | J          | 8.2                   | 93.1                      | 62            | 96.8                       |                         | 583                       | YES (NC)   |
| Xylenes                 | 1330-20-7 | TM-SD-50               | 13.8                  |            | 0.0062                | 1.74                      | 62            | 41.9                       |                         | 249                       | no         |
| Zinc                    | 7440-66-6 | TM-SD-86               | 7,870                 |            | 50.8                  | 1,098                     | 62            | 100.0                      |                         | 35,000                    | no         |

J: The positive result reported for this analyte is a quantitative estimate.

J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.

J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

COPC = Constituent of Potential Concern

C = Compound was identified as a cancer COPC

NC = Compound was identified as a non-cancer COPC

TR = Target Risk

HI = Hazard Quotient

\*PCBs (total) include the sum of all detected arochlor mixtures, including those without regional screening levels (e.g. Arochlor 1262, Arochlor 1268) which are not displayed.

<sup>^</sup>The COPC screening level for lead was not adjusted to the HQ=0.1 because lead is not assessed in the SLRA. The 800 mg/kg PAL is relevant to the Adult Lead Model procedure.

**Table 7 - Tin Mill Canal  
Pooled Sediments  
Assessment of Lead**

| <b>Exposure Unit</b> | <b>Arithmetic Mean<br/>(mg/kg)</b> |
|----------------------|------------------------------------|
| Tin Mill             | 139.43                             |

| <b>Adult Lead Model (ALM) Risk Levels</b> |   |
|---|---|
| <b>Soil Concentration<br/>(mg/kg)</b>     | <b>Probability of Blood<br/>Concentration of 10 ug/dL</b> |
| 2,737 mg/kg                               | 5%  |
| 3,417 mg/kg                               | 10%   |

**Table 8 - Tin Mill Canal  
Pooled Sediments  
Exposure Point Concentrations**

| Parameter      | Cancer COPC Screening Level (mg/kg) | Non-Cancer COPC Screening Level (mg/kg) | EPC Type Site-Wide Exposure Unit | EPC Site-Wide Exposure Unit (mg/kg) |
|----------------|-------------------------------------|---|----------------------------------|-------------------------------------|
| Arsenic        | 3.00E+00                            | 4.80E+01                                | 95% Approximate Gamma UCL        | <b>25.8</b>                         |
| Cobalt         | 1.90E+03                            | 3.50E+01                                | 95% Chebyshev (Mean, Sd) UCL     | <b>50.2</b>                         |
| Cyanide        |                                     | 1.50E+01                                | 95% KM (Chebyshev) UCL           | 7.12                                |
| Thallium       |                                     | 1.20E+00                                | 95% KM (t) UCL                   | <b>1.26</b>                         |
| Vanadium       |                                     | 5.80E+02                                | 95% Chebyshev (Mean, Sd) UCL     | 177                                 |
| PCB (total)    | 9.40E-01                            |   | 95% GROS Adjusted Gamma UCL      | <b>5.29</b>                         |
| Benzo[a]pyrene | 2.10E+00                            | 2.20E+01                                | 95% Adjusted Gamma UCL           | <b>4.48</b>                         |
| Naphthalene    | 1.70E+01                            | 5.90E+01                                | 99% Chebyshev (Mean, Sd) UCL     | <b>137</b>                          |
| Benzene        | 5.10E+00                            | 4.20E+01                                | 95% Approximate Gamma KM-UCL     | 1.85                                |

**Bold indicates EPC exceedance of lowest COPC Screening Level**

COPC = Constituent of Potential Concern

EPC = Exposure Point Concentration

**Table 9 - Tin Mill Canal  
Pooled Sediments  
Composite Worker Risk Ratios**

| Parameter      | Target Organs               | Site-Wide Exposure Unit (17.1 ac.) |                  |            |              |          |
|----------------|-----------------------------|------------------------------------|------------------|------------|--------------|----------|
|                |                             | EPC mg/kg                          | Composite Worker |            |              |          |
|                |                             |                                    | RSLs (mg/kg)     |            | Risk Ratios  |          |
|                |                             |                                    | Cancer           | Non-Cancer | Risk         | HQ       |
| Arsenic        | Cardiovascular; Dermal      | 25.8                               | 3.00E+00         | 4.80E+02   | 8.6E-06      | 0.05     |
| Cobalt         | None Specified              | 50.2                               | 1.90E+03         | 3.50E+02   | 2.6E-08      | 0.1      |
| Cyanide        | None Specified              | 7.12                               |                  | 1.50E+02   |              | 0.05     |
| Thallium       | None Specified              | 1.26                               |                  | 1.20E+01   |              | 0.1      |
| Vanadium       | Dermal                      | 177                                |                  | 5.80E+03   |              | 0.03     |
| PCBs (total)   |                             | 5.29                               | 9.40E-01         |            | 5.6E-06      |          |
| Benzo[a]pyrene | Developmental Neurotoxicity | 4.48                               | 2.10E+00         | 2.20E+02   | 2.1E-06      | 0.02     |
| Naphthalene    | Nervous; Respiratory        | 137                                | 1.70E+01         | 5.90E+02   | 8.1E-06      | 0.23     |
| Benzene        | Immune                      | 1.85                               | 5.10E+00         | 4.20E+02   | 3.6E-07      | 0.004    |
|                |                             |                                    |                  |            | <b>2E-05</b> | <b>↓</b> |

RSLs were obtained from the EPA Regional Screening Levels at <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016>

|          |                             |   |
|----------|-----------------------------|---|
| Total HI | Cardiovascular              | 0 |
|          | Dermal                      | 0 |
|          | Nervous                     | 0 |
|          | Respiratory                 | 0 |
|          | Immune                      | 0 |
|          | Developmental Neurotoxicity | 0 |
|          | None Specified              | 0 |



---

---

## **APPENDIX A**

---

---

**From:** Barbara Brown -MDE- [<mailto:barbara.brown1@maryland.gov>]

**Sent:** Thursday, February 04, 2016 3:23 PM

**To:** Dorgan, Doug <[ddorgan@wcgrp.com](mailto:ddorgan@wcgrp.com)>; James Calenda <[jcalenda@enviroanalyticsgroup.com](mailto:jcalenda@enviroanalyticsgroup.com)>; [RLUTZ@SAUL.COM](mailto:RLUTZ@SAUL.COM); Russ Becker <[rbecker@enviroanalyticsgroup.com](mailto:rbecker@enviroanalyticsgroup.com)>; Jennifer Sohns -MDE- <[jennifer.sohns@maryland.gov](mailto:jennifer.sohns@maryland.gov)>; [fan.andrew@epa.gov](mailto:fan.andrew@epa.gov); Mark Mank -MDE- <[mark.mank@maryland.gov](mailto:mark.mank@maryland.gov)>; [Prince.Ruth@epa.gov](mailto:Prince.Ruth@epa.gov); Hilary Miller -MDE- <[hilary.miller@maryland.gov](mailto:hilary.miller@maryland.gov)>; [pizarro.luis@epa.gov](mailto:pizarro.luis@epa.gov); Kaley Laleker -MDE- <[kaley.laleker@maryland.gov](mailto:kaley.laleker@maryland.gov)>

**Subject:** Tin Mill Canal Remediation Waste Determination

EPA and MDE have considered your request to make a contained in/out determination on a site-specific basis for the remediation waste to be removed from the Tin Mill Canal, as per EPA's Management of Remediation Waste Under RCRA (EPA530-F-98-026) guidance. MDE has determined that for the Tin Mill Canal remediation waste to be considered to no longer contain hazardous waste, the characterization of the remediation waste must demonstrate that: (1) the waste no longer exhibits any characteristics of a hazardous waste; and (2) the concentrations of constituents are below the USEPA industrial soil Regional Screening Levels (RSLs) set to a hazard index of 10 and a cancer risk of  $1 \times 10^{-4}$ .

If you have any questions regarding this determination please contact either Andrew Fan, EPA or myself.

Barbara Brown  
MDE Project Coordinator

--

**Barbara Brown**  
**MDE-LRP-VCP Section Head**  
**direct 410 537 3212**  
**general 410 537 3493**