Phase II Investigation Work Plan

Area B: Parcel B24
Tradepoint Atlantic
Sparrows Point, Maryland

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Respectfully Submitted,

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New Pets

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1.0 INTRODUCTION

1.1. Introduction

ARM Group Inc. (ARM), on behalf of EnviroAnalytics Group (EAG), has prepared the following Work Plan to complete a Phase II Investigation on a portion of the Tradepoint Atlantic property that has been designated as Area B: Parcel B24 (the Site). Parcel B24 is comprised of 25.7 acres of the approximately 3,100-acre former plant property located as shown on **Figure 1**.

Site characterization of Parcel B24 will be performed in compliance with requirements pursuant to the following:

- Administrative Consent Order (ACO) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the Maryland Department of the Environment (MDE), effective September 12, 2014; and
- Settlement Agreement and Covenant Not to Sue (SA) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the United States Environmental Protection Agency (USEPA), effective November 25, 2014.

An application to enter the full Tradepoint Atlantic property (3,100 acres) into the Maryland Department of the Environment Voluntary Cleanup Program (MDE-VCP) was submitted to the MDE and delivered on June 27, 2014. The property's current and anticipated future use is Tier 3 (Industrial) and plans for the property include demolition and redevelopment over the next several years. Parcel B24 is also part of the acreage that remains subject to the requirements of the Multimedia Consent Decree between Bethlehem Steel Corporation, the USEPA, and the MDE (effective October 8, 1997) as documented in correspondence received from the USEPA on September 12, 2014.

Tradepoint Atlantic has developed an initial master plan that shows potential future development areas across the entire Tradepoint Atlantic property. This master plan is a working document and it is expected to undergo subsequent revisions in the future. The plan shows that 100% of the total area within Parcel B24 may ultimately be proposed for development and associated capping (paving, landscaping, etc.) as appropriate.

The objective of this Phase II Investigation is to identify the presence or absence of any existing hazardous conditions for future tenants or personnel working on the Site. During the Phase II Investigation, soil samples will be collected for analysis from a total of 37 soil borings to assess the presence or absence of soil contamination. Five temporary groundwater sample collection points (commonly referred to as piezometers) will be completed/sampled to further assess the presence or absence of groundwater contamination. The groundwater conditions below portions

of the Site were previously assessed during the Parcel B8 Phase II Investigation, Parcel B14 Phase II Investigation, and Area B Groundwater Investigation.

Following the receipt of analytical data, a Phase II Investigation Report will be prepared to summarize the findings. As development projects continue to be proposed on the Tradepoint Atlantic property in the future, the results obtained during this Phase II Investigation will be 1) incorporated into a human health Screening Level Risk Assessment (SLRA) within a Response and Development Work Plan (RADWP) to evaluate any potential risks to future workers in the development area; or 2) evaluated within an alternative supplemental SLRA document for areas that are not proposed for development.

1.2. SITE BACKGROUND

From the late 1800s until 2012, the production and manufacturing of steel was conducted at Sparrows Point. Iron and steel production operations and processes at Sparrows Point 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 steel making operations at the facility ceased in fall 2012.

Groundcover at the Site is comprised of approximately 5% natural soils and 95% non-native fill materials based on the approximate shoreline of the Sparrows Point Peninsula in 1916, as shown on **Figure 2** (Adapted from Figure 2-20 on the Description of Current Conditions (DCC) Report prepared by Rust Environmental and Infrastructure, dated January 1998).

1.2.1. Historical Operations – Wastewater Treatment Plant

The Humphrey Creek Wastewater Treatment Plant (HCWWTP) handles influent from the Tin Mill Canal (TMC), which historically served as the receiving stream for stormwater and wastewater from various steel production activities on the Tradepoint Atlantic property. The HCWWTP is currently being used to treat the discharge from the TMC, consisting mainly of stormwater. The HCWWTP discharges treated effluent into the adjacent water body of Bear Creek to the west. The HCWWTP uses various treatment processes to treat the TMC influent, including but not limited to settling basins, thickeners, aerators, chemical addition (lime, caustic, flocculation, and acid washing), and an emergency detention basin. Two existing settling basins (one of which has been partially backfilled) and upstream aeration systems are currently utilized in the ongoing wastewater treatment operations. The 2.5-acre emergency detention basin was constructed in 2002 as a bypass system to be used in the event of any treatment upsets. Two thickener tanks located to the south of the treatment plant building allow for sludge removal. The residual sludge is then handled through filter press devices. Dried sludge filter cake is taken to the on-site non-hazardous Greys Landfill in roll-off containers.

Based on the historical use of the HCWWTP, it is possible that some operations performed at the HCWWTP may have impacted the surrounding soil and groundwater. A detailed discussion of the Recognized Environmental Conditions (RECs) and other features of potential concern associated with the HCWWTP, as defined by Weaver Boos Consultants, is presented in Section 1.3.1. There is no evidence that significant iron and steel industrial processes were completed within the boundary of Parcel B24.

1.2.2. Current Site Conditions

A site visit of Parcel B24 was completed by ARM personnel on March 15, 2018 in order to observe current conditions at the Site. During the site visit, four substations were observed along the exterior of the HCWWTP buildings. Several of the main treatment systems including settling basins, the emergency detention basin, thickener tanks, and the discharge point to Bear Creek were also observed and documented. ARM personnel noted outdoor storage of various wastewater treatment chemicals. The Site contained aboveground storage tanks (ASTs) and tote containers of flocculant, sulfuric acid, caustic solution, chromic acid solution, sodium hydrosulfide, and various other unlabeled containers. Several of the larger ASTs appeared to have secondary containment; however, it is possible that spills or leaks may have occurred in the past. An area used for the disposal of treatment plant sludge filter cake material was observed to have dried material on the ground. This material is generally stored in roll-off containers and disposed of at the on-site non-hazardous Greys Landfill; however, overflow of material appears to have occurred outside of the roll-off containers. An entrance to the main treatment plant building had a layer of white powder on the gravel surface just outside of the building in the vicinity of several ASTs and silos containing unknown wastewater treatment chemicals. The specific chemical identity of the powder is unknown. A photograph log from the field visit including all relevant findings has been included as Appendix A. These findings were incorporated into the sampling plan to target locations of potential concern.

1.2.3. Background Environmental Data

Prior to recent Phase II Investigations (Area B Groundwater Investigation, Parcel B8 Phase II Investigation, and Parcel B14 Phase II Investigation), there were eight historical site-wide wells located within or immediately adjacent to Parcel B24. These wells include TS03-PPP003 (crosslisted as HI08-PZM003), TS03-PDP002, HI08-PZM060, TM02-PZM009, TM02-PZM028, TM02-PZM062, TM03-PZM004, and TM03-PZM037. The TM02- well cluster and the TM03-well pair are located to the east of Parcel B24 within Parcels B14 and B15, respectively, and provided groundwater monitoring locations for the nearby TMC. The remaining wells (TS03-PPP003, TS03-PDP002, HI08-PZM060) are located in the northwest portion of the Site. The locations of the eight historical wells installed adjacent to Parcel B23 are shown on **Figure 3a**.

Available analytical data from these wells were extracted from the Site Wide Investigation Groundwater Study Report prepared by the Bethlehem Steel Corporation Sparrows Point Division dated December 20, 2001 and the Site Wide Investigation Report of Nature & Extent of Releases to Groundwater from the Special Study Areas prepared by URS, dated January 2005. The historical analytical results from these wells are provided in **Appendix B**. Since the historical well TS03-PPP003 is cross-listed as HI08-PZM003, both well IDs appear in the compiled historical dataset. Highlighted results indicate any exceedances of the aqueous Project Action Limits (PALs) for individual constituents. The appendix also indicates the screened interval for each of the existing wells, as well as the hydrogeologic zone.

During the Area B Groundwater Investigation, one new monitoring well (SW-021-MWS) was installed in the southeastern corner of the parcel. SW-021-MWS and the reconstructed shallow and intermediate monitoring wells TM03-PZM004 and TM03-PZM037 were sampled during the Area B Groundwater Investigation. In addition, the historic shallow monitoring well TM02-PZM009 was redeveloped and sampled during the Parcel B14 Phase II Investigation. Temporary piezometer B8-010-PZ was installed and sampled during the Parcel B8 Phase II Investigation. A total of five groundwater samples from the separate investigations provided groundwater results which are relevant for this Parcel B24 Phase II Investigation, including four locations in the shallow hydrogeologic zone (B8-010-PZ, SW-021-MWS, TM02-PZM009, and TM03-PZM004) and one location in the intermediate hydrogeologic zone (TM03-PZM037). The locations of the groundwater points sampled during the recent Phase II Investigations are shown on **Figure 3b**.

The analytical results from the recent groundwater sampling events for the four sample locations relevant to Parcel B24 are provided in **Appendix C**, with the aqueous PAL exceedances highlighted. Note that these results were included in the Area B Groundwater Phase II Investigation Report (Revision 0) dated September 30, 2016; the Parcel B8 Phase II Investigation Report (Revision 1) dated March 16, 2018; and the Parcel B14 Phase II Investigation Report (Revision 0) dated March 27, 2018. The appendix also indicates the screened interval for each of the existing wells, as well as the hydrogeologic zone. In accordance with the relevant approved Work Plans, each of the wells was checked for the presence of non-aqueous phase liquid (NAPL) using an oil-water interface probe prior to sampling. None of these permanent wells showed evidence of NAPL during the required gauging events.

There are no historical soil or soil gas sampling datasets available from this parcel.

1.3. SAMPLING DESIGN AND RATIONALE

1.3.1. Soil Sampling Targets

Parcel B24 contains a total of approximately 25.7 acres: 1.0 acres consisting of the existing structures associated with the HCWWTP and 24.7 acres of outdoor areas. Small paved and unpaved roads are also present at the Site, but are not maintained as surface engineering controls. Therefore, the total area of the Site (25.7 acres) was evaluated according to the sampling density requirements for areas without engineered barriers, as set forth in the Quality Assurance Project

Plan (QAPP) Worksheet 17 – Sampling Design and Rationale. According to these requirements, a minimum of 18 soil boring locations are required. A total of 37 soil borings have been proposed throughout the Site to target features of potential environmental concern. **Figure 4** shows the proposed borings on an aerial image to indicate the locations of borings with regard to physical landmarks (including the HCWWTP structures) and ground cover. This figure acts as a reference map and indicates the boring IDs assigned to each individual location. The soil boring IDs have been abbreviated on all subsequent sampling figures. Sampling locations were selected as follows.

Across the whole Tradepoint Atlantic property, several buildings and facilities may have been historical sources of environmental contamination. These areas were identified as targets for sampling through a careful review of historical documents. Historical maps and drawings were geospatially referenced using Geographic Information Systems (GIS) software (ArcMap Version 10.6), and reviewed to determine the specific sampling locations. When a sampling target was identified, at least two borings were placed at or around its location using GIS software. The first sampling targets to be identified were RECs that are located within the property boundaries, as shown on the REC Location Map provided in the Phase I Environmental Site Assessment (ESA) prepared by Weaver Boos Consultants dated May 19, 2014. Weaver Boos completed site visits of Sparrows Point from February 19 through 21, 2014, for the purpose of characterizing current conditions at the former steel plant. All RECs on the Tradepoint Atlantic property are required to be targeted with at least three boring locations. The following RECs were identified at the Site from information presented in the Phase I ESA:

HCWWTP Settling Basins (REC 7A, Finding 165, also listed as SWMU 10):

According to the Phase I ESA, the settling basins associated with the treatment plant are believed to contain significant quantities of sediment from the nearby TMC and HCWWTP sludge. Weaver Boos recognized the potential for a material release from these basins which could have negatively impacted the environment. The TMC sediments were investigated as described in the Sediment Characterization Report for the Tin Mill Canal (Revision 3 dated January 4, 2018). The HCWWTP historically operated with three settling basins, of relatively equal surface areas. Just two settling basins, designated as Basin No. 2 (middle) and Basin No. 3 (north) remain operational at the Site. As shown on the aerial imagery in **Figure 4**, Basin No. 2 has been partially backfilled, leaving approximately half of the original basin volume remaining. The main HCWWTP building stands roughly in the location of the former Basin No. 1.

HCWWTP Aerators (REC 7B, Finding 167, also listed as SWMU 12):

According to the Phase I ESA, the treatment plant's aeration basins are believed to contain significant quantities of sediment from the nearby TMC and HCWWTP sludge. Weaver Boos recognized the potential for a material release from the aerators which could have negatively impacted the environment.

HCWWTP Emergency Detention Basin (REC 7C, Finding 173):

The approximately 2.5-acre emergency detention basin serves as a bypass system for the HCWWTP to be used in the event of any treatment upsets. The emergency detention basin was constructed in 2002, and includes a composite liner. Weaver Boos observed the emergency detention basin to contain what appeared to be several thousand cubic yards of sediment and sludge from the HCWWTP during their site visit. The sediment/sludge was presumed to contain petroleum products and/or hazardous substances. Weaver Boos recognized the potential for a material release from the basin which could have negatively impacted the environment.

The DCC Report was also reviewed to identify additional sampling targets. This report included documentation from a previous Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) and a visual site inspection (VSI) prepared by A.T. Kearney, Inc. (dated August 1993). The purpose of the VSI was to identify Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) on the property. SWMUs and AOCs, if present, were identified from the DCC Report Figure 3-1. **Figure 5** shows the proposed borings overlain on the DCC figure, which shows the SWMUs, AOCs, and main facility areas within the parcel boundaries. There were no AOCs identified at the Site based on this figure, and no additional units were identified from the DCC Report Table 3-1. Several of the SWMUs within the Parcel B24 boundary are cross-listed as RECs (discussed above), but additional SWMUs at the Site were identified from the DCC Report as follows:

HCWWTP Thickeners, HCWWTP Wastewater Chemical Treatment Building, HCWWTP Spent Pickle Liquor (SPL) Discharge Point, HCWWTP Centrifuges, HCWWTP Sludge Collection Box, and HCWWTP Old Alum Tank (SWMU 11, SWMU 13, SWMU 14, SWMU 15, SWMU 16, and SWMU 17, respectively):

According to the Phase I ESA, none of the listed SWMUs associated with the HCWWTP were classified as RECs. Weaver Boos did not determine that a material threat of release to the environment was present in association with these features. The treatment process units, sludge collection box, and chemical treatment building were not observed to be releasing, and the thickeners and centrifuges were operating normally during Weaver Boos' site visit. Weaver Boos stated that the old alum tank and the SPL discharge point were not the subject of any enforcement action when brought to the attention of appropriate governmental agencies, and therefore should not be classified as RECs.

Following the identification of all RECs, SWMUs, and AOCs, four sets of historical site drawings were reviewed to identify additional sampling targets. These site drawings included the 5000 Set (Plant Arrangement), the 5100 Set (Plant Index), the 5500 Set (Plant Sewer Lines), and a set of drawings indicating coke oven gas distribution drip leg locations. Sampling target locations were identified if the historical site drawings depicted industrial activities or a specific feature at a location that may have been a source of environmental contamination that impacted the Site. Drip legs are points throughout the distribution system where coke oven gas condensate

was removed from the gas pipelines. The condensate from the drip legs was typically discharged to drums, although it is possible some spilled out of the drums and on to the ground. **Figure 6** through **Figure 9** show the proposed borings and the parcel boundary overlain on the 5000 Set, 5100 Set, 5500 Set, and Drip Leg Drawings, respectively. A summary of the specific drawings covering the Site is presented below:

Parcel B24 Historical Site Drawings Details							
Set Name	Typical Feature Shown	Drawing Number	Original Date Drawn	<u>Latest</u> <u>Revision</u> <u>Date</u>			
Dlant	Roads, water bodies, building/structure footprints, electric lines, above-ground pipelines (e.g.: steam, nitrogen, etc.)	5038	9/1/1958	3/11/1982			
Plant Arrangement		5039	9/1/1958	3/11/1982			
Arrangement		5043	8/3/1959	3/11/1982			
	Roads, water bodies, demolished buildings/structures, electric lines, above-ground pipelines	5138	Unknown	1/10/2008			
Plant Index		5139	Unknown	1/16/2008			
		5143	Unknown	8/15/2008			
Dlant Carron	Same as above plus trenches, sumps, underground piping (includes pipe materials)	5538	Unknown	2/10/1975			
Plant Sewer Lines		5539	8/28/1959	2/21/1975			
Lines		5543	9/16/1959	4/1/1975			
Drip Legs	Coke Oven Gas Drip Legs Locations	5887	Unknown	Sept. 1988			

A figure showing the locations of former PCB-containing transformer equipment at the property was also reviewed for inclusion as additional targets. There were no possible PCB-contaminated equipment areas identified in the parcel based on this information.

The number of proposed borings that target a specific feature is directly related to the size and likely historical presence of materials that could have impacted the Site. Careful review of the geospatially referenced figures and review of other historical documents (previously discussed) yielded the proposed boring locations. Based on this criterion, and supplemented by the field visit to observe current conditions at the Site (see Section 1.2.2 and **Appendix A**), the following additional sampling targets were identified at the Site: Electrical Sub-Stations, Caustic Solution Tanks, Sodium Hydrosulfide Tank, Sulfuric Acid Tank, Former Oil AST, Tank Control Building & Polymer Storage & White Chemical Powder, Thickener Tanks, Container/Chemical Storage, Trailer/Equipment Storage, and Sludge Filter Cake Area. The targeted sample locations provide adequate spatial coverage and meet the site-wide sample density requirements set forth in the QAPP Worksheet 17 – Sampling Design and Rationale. The full list of sample targets, along with the specific rationale for sampling each, is given in **Appendix D**.

1.3.2. Groundwater

Groundwater at the Site was previously investigated under the Area B Groundwater Investigation, the Parcel B8 Phase II Investigation, and the Parcel B14 Phase II Investigation. The groundwater sample locations from these separate plans are shown on **Figure 3b**, and the analytical results obtained from these groundwater points during recent sampling events are provided in **Appendix C**. The previous Phase II Investigations adequately covered portions of the Site, but additional samples are warranted to further characterize groundwater below the Site.

The groundwater investigation will be expanded to cover the remainder of the Site via the installation and sampling of five temporary groundwater sample collection points (B24-001-PZ, B24-003-PZ, B24-027-PZ, B24-034-PZ, and B24-035-PZ). The proposed groundwater sample locations are shown on **Figure 10**.

2.0 PROJECT ORGANIZATION AND RESPONSIBILITIES

2.1. PROJECT PERSONNEL

The site characterization of Area B: Parcel B24 will be conducted by ARM under a contract with EAG. ARM will provide project planning, field sampling, and reporting support. The required drilling, Geoprobe[®] and laboratory services will be contracted directly by EAG. The management, field, and laboratory responsibilities of key project personnel are defined herein.

The ARM Project Manager, Mr. Eric Magdar, is responsible for ensuring that all activities are conducted in accordance with this Work Plan and the contract requirements. Mr. Magdar will provide technical coordination with the MDE, USEPA, and EAG. The ARM Project Manager is responsible for managing all operations conducted for this project including:

- Ensure all personnel assigned to this project review the technical project plans before initiation of all tasks associated with the project.
- Review of project plans in a timely manner.
- Ensure proper methods/procedures are implemented to collect representative samples.
- Monitor the project budget and schedule and ensure the availability of necessary personnel, equipment, subcontractors, and other necessary services.

The lead ARM Geologist, Ms. Lisa Perrin, will be responsible for coordinating field activities including the collection, preservation, documentation, and shipment of samples. Ms. Perrin will directly communicate with the ARM Project Manager and Laboratory Project Manager on issues pertaining to sample shipments, schedules, container requirements, and other necessary issues. Ms. Perrin is also responsible for ensuring the accuracy of sample documentation including the completion of the Chain of Custody forms.

Pace Analytical Services, Inc. (PACE) of Greensburg, Pennsylvania will provide the analytical services for this project. The address for the laboratory is as follows:

Pace Analytical 1638 Roseytown Road Greensburg, PA 15601

During the field activities, the Laboratory Project Manager will coordinate directly with the ARM Project Manager on issues regarding sample shipments, schedules, container requirements, and other field-laboratory logistics. The Laboratory Project Manager will monitor the daily activities of the laboratory, coordinate all production activities, and ensure that work is being conducted as specified in this document. Ms. Samantha Bayura will be the Laboratory Project Manager for PACE on this project.

2.2. HEALTH AND SAFETY ISSUES

Because of the potential presence of hazardous constituents in the soil and groundwater at the Site, the investigation will be conducted under a Health and Safety Plan (HASP) to protect investigation workers from possible exposure to contaminated materials. The HASP to be used during the field investigation of Parcel B24 is included as **Appendix E**.

Based on information provided to ARM, the planned site investigation activities will be conducted under Level D personal protection. The requirements of the Level D protection are defined in the attached HASP. All field personnel assigned for work at the Site have been trained in accordance with the Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response standard (29 CFR 1910.120) and other applicable OSHA training standards. All field staff will be experienced in hazardous waste site work, use of personal protective equipment (PPE), and emergency response procedures.

3.0 FIELD ACTIVITIES AND PROCEDURES

3.1. UTILITY CLEARANCE

ARM will take appropriate precautions to avoid subsurface utilities and structures during the site investigation. Prior to initiating any subsurface investigations, ARM will attempt to determine the location of utilities in the project area using the Miss Utility system. Additionally, any required state or local permits will be acquired prior to the commencement of site activities.

In addition to the Miss Utility system, EAG will clear each proposed boring with utility personnel currently working on the property. To facilitate this, ARM will locate with a GPS and mark all proposed sample locations in the field. ARM will coordinate the staking of sample locations in the field with Tradepoint Atlantic utility personnel to avoid conflicts. Historical utility drawings which may be relevant include the 5600 Set (Plant Water Lines) and 5800 Set (Plant Gas Lines).

3.2. SAMPLING PLAN

The purpose of this site characterization is to identify any existing hazardous conditions across the entire Site. A summary of the areas that will be investigated, along with the proposed boring identification number and the analyses being performed, has been provided as **Appendix D**.

This Work Plan presents the methods and protocols to be used to complete the site characterization. These methods and procedures follow the MDE-VCP and USEPA 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, and reporting requirements are described in detail in the QAPP that has been developed to support the investigation and remediation of the Tradepoint Atlantic property (Quality Assurance Project Plan, ARM Group Inc., April 5, 2016).

The proposed schedule of this investigation is contained in this Work Plan (Section 8.0). All site characterization activities will be conducted under the HASP (**Appendix E**).

3.3. SOIL INVESTIGATION

Soil samples collected from the locations identified on **Figure 4** through **Figure 9** will be screened and analyzed in accordance with procedures referenced in the QAPP Worksheet 21 – Field SOPs (Standard Operating Procedures), SOP No. 009 – Sub-Surface Soil Sampling. Regarding soil sampling depth, a shallow sample will be collected from the 0 to 1 foot depth interval, and a deeper sample will be collected from the 4 to 5 foot depth interval. If a concrete slab or slag aggregate occupies the 0 to1 foot below ground surface (bgs) sample, the interval may be shifted to the depth of the first observed soil interval.

Soil samples will be analyzed for SVOCs, TAL-Metals, Oil & Grease, TPH-DRO, TPH-GRO, hexavalent chromium, and cyanide. Samples from any depth interval with a sustained photoionization detector (PID) reading of greater than 10 ppm will also be analyzed for VOCs. Additionally, the soil sample collected from the shallow interval (0 to 1 foot bgs) will be analyzed for PCBs. If the PID or other field observations indicate contamination to exist at a depth greater than 3 feet bgs but less than 9 feet bgs, and above the water table, the sample from the deeper 4 to 5 foot interval may be shifted to the depth interval indicated by the PID response. One additional sample will also be collected from the 9 to 10 foot depth interval if groundwater has not been encountered. Except as otherwise noted, soil samples will not be collected from a depth that is below the water table.

If the PID reading from the 9 to 10 foot depth interval is less than 10 ppm, all parameters will be held by the laboratory pending the analysis of the 0 to 1 and 4 to 5 foot depth interval samples. If this depth interval exhibits a sustained PID reading of 10 ppm, it will be analyzed for VOCs, SVOCs, TPH-DRO, TPH-GRO, and Oil & Grease. However, the samples for metals and cyanide will be held by the laboratory pending the analysis of the 0 to 1 and 4 to 5 foot depth interval samples. If the analyses from the 4 to 5 foot depth interval show exceedances of PALs for any constituent, the held sample from the 9 to 10 foot depth interval will be analyzed for those constituents that exhibited PAL exceedances in the overlying 4 to 5 foot sample.

As noted in **Appendix D**, soil samples investigating the Settling Basins will be completed with an extra sample interval between 17 and 18 feet bgs to fully investigate the vertical extent of the basins. Historic construction drawings show the settling basins were constructed at a depth of 17 feet below ground surface. Soil samples will therefore be collected from the 0 to 1 foot, 4 to 5 foot, 9 to 10 foot, and 17 to 18 foot bgs intervals at locations B24-025, B24-026, and B24-037. The water table is expected to be encountered above the bottom interval, but deep soil samples will still be collected from these select locations. Based on the nature of these borings, the deeper 9 to 10 foot and 17 to 18 foot bgs samples will not be held pending analysis of the overlying samples, but will be analyzed for the full suite of standard analyses (excluding PCBs). All other sampling procedures will apply.

After soil sampling has been concluded at a location, all down-hole soil sampling equipment will be decontaminated according to procedures referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 016 – Equipment Decontamination. The decontamination procedures that will be used during the course of this investigation include Decontamination Area (Section 3.1 of the SOP), Decontamination of Sampling Equipment (Section 3.5), Decontamination of Measurement Devices & Monitoring Equipment (Section 3.7), Decontamination of Subsurface Drilling Equipment (Section 3.8), and Document and Record Keeping (Section 5). Analytical methods, sample containers, preservatives, and holding times for the sample analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

3.4. GROUNDWATER INVESTIGATION

Groundwater samples will be collected from temporary groundwater sample collection points (piezometers) within Parcel B24 as shown on **Figure 10** in accordance with procedures referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 006 – Groundwater Sampling. All groundwater samples will be analyzed for VOCs, SVOCs, TAL-Metals (all locations will be sampled for dissolved metals), Oil & Grease, TPH-DRO, TPH-GRO, hexavalent chromium (dissolved), and cyanide (total and available). Analytical methods, sample containers, preservatives, and holding times for the sample analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

Prior to sample collection each groundwater sample point will be checked for the presence of NAPL using an oil-water interface probe, in accordance with methods referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 019 – Depth to Groundwater and NAPL Measurements. The temporary groundwater sampling collection points will also be surveyed to obtain groundwater elevation data. The elevation data from these sampling locations will be used to create a groundwater contour map indicating localized groundwater flow directions. Once each PVC temporary groundwater sample collection point has been sampled, surveyed and/or checked for NAPL, it will be emptied, removed and discarded. The boreholes will then be abandoned in accordance with Maryland abandonment standards as stated in COMAR 26.04.04.34 through 36.

3.5. NAPL DELINEATION

The MDE will be notified of any initial observation of NAPL bearing soils identified in a soil boring within 2 hours of the field observation. This notification will be provided in email format to appropriate MDE representatives. Subsequent observations of NAPL bearing soils in the same immediate area will not require redundant notifications. For the purposes of this notification, NAPL bearing soil is defined as soil containing free oil (i.e., liquid oil which could potentially be drained or otherwise extracted from the soil). If minor indications of NAPL (globules or a sheen) are identified in the soil core, it will be delineated in accordance with the procedures listed below, but the initial 2-hour MDE notification will not be required (unless NAPL bearing soils are identified during the subsequent delineation). If the MDE has not previously been notified due to the presence of NAPL bearing soils, the presence of measureable NAPL in a temporary piezometer will warrant the same 2-hour MDE notification and subsequent delineation. If the evidence of NAPL is limited to a trace detection, the potential impacts will be delineated but the initial 2-hour MDE notification will not be required.

In the event that NAPL and/or a sheen is identified in a soil boring, a temporary piezometer will be installed according to the specifications identified in SOP No. 028 – Direct Push Installation and Construction of Temporary Groundwater Sample Collection Points. ARM will immediately check the piezometer for the presence of NAPL using an oil-water interface probe in accordance with methods referenced in SOP No. 019 – Depth to Groundwater and NAPL Measurements.

Each piezometer installed to delineate the presence or absence of NAPL will be checked with an oil-water interface probe immediately after installation, 48 hours after installation, and 30 days after installation. If NAPL is not detected after 30 days of equilibration time, the screening piezometer will be emptied, removed, and discarded, and the borehole will be abandoned in accordance with Maryland abandonment standards as stated in COMAR 26.04.04.34 through 36.

If measureable NAPL or sheen is present in the initial delineation piezometer, ARM will remobilize (following utility clearance) to install and inspect additional soil borings and delineation piezometers to the north, south, east, and west of the detection point at distances of approximately 25 feet. Delineation piezometers will extend into adjacent parcels (if applicable) but will not be installed off of Tradepoint Atlantic property and will only be installed up to the edge of existing buildings. At each location, the continuous soil cores will be screened with a hand-held PID and inspected for evidence of NAPL, and the additional temporary piezometers will be installed to a final depth determined by ARM personnel.

Each additional piezometer installed to delineate the NAPL will be checked for the presence of product with an oil-water interface probe immediately after installation, 48 hours after installation, and again after a 30 day equilibration period. If NAPL is present within any of the piezometers, additional borings/piezometers will be added as necessary to complete the delineation. Once the MDE has given approval to abandon the additional piezometers, each piezometer will be emptied, removed, and discarded. All boreholes will be abandoned in accordance with COMAR 26.04.04.34 through 36. A full report documenting the results of the delineation, including NAPL thickness, will be submitted to the MDE.

3.6. SAMPLE DOCUMENTATION

3.6.1. Sample Numbering

Samples will be numbered in accordance with the QAPP Appendix C – Data Management Plan.

3.6.2. Sample Labels & Chain of Custody Forms

Samples will be labeled and recorded on the Chain of Custody form in accordance with methods referenced in the QAPP Worksheet 26 & 27 – Sample Handling, Custody and Disposal.

3.7. LABORATORY ANALYSIS

EAG has contracted PACE of Greensburg, Pennsylvania to perform the laboratory analysis for this project. All sample analyses to be performed are listed in **Appendix D**. The samples will be submitted for analysis with a standard turnaround time (approximately 5 work days). The specific list of compounds and analytes that the soil and groundwater samples will be analyzed for, as well as the quantitation limits and PALs, is provided in QAPP Worksheet 15 – Project Action Limits and Laboratory-Specific Detection/Quantitation Limits.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

All soil and groundwater samples will be collected using dedicated equipment including new soil core liners, sampling kits, and polyethylene tubing. Each cooler temperature will be measured and documented by the laboratory upon receipt.

Quality assurance and quality control (QA/QC) samples are collected during field studies for various purposes, among which are to isolate site effects (control samples), to define background conditions (background sample), and to evaluate field/laboratory variability (spikes and blanks, trip blanks, duplicates, etc.).

The following QA/QC samples will be submitted for analysis to support the data validation:

- ➤ Trip Blank at a rate of one per cooler with VOC samples
 - Soil VOCs only
 - o Water VOCs only
- ➤ Blind Field Duplicate at a rate of one duplicate per twenty samples
 - o Soil VOCs, SVOCs, Metals, Oil & Grease, TPH-DRO, TPH-GRO, PCBs, hexavalent chromium, and cyanide
 - Water VOCs, SVOCs, Metals, Oil & Grease, TPH-DRO, TPH-GRO, hexavalent chromium, and cyanide
- ➤ Matrix Spike/Matrix Spike Duplicate at a rate of one per twenty samples
 - Soil VOCs, SVOCs, Metals, Oil & Grease, TPH-DRO, TPH-GRO, PCBs, and hexavalent chromium
 - Water VOCs, SVOCs, Metals, Oil & Grease, TPH-DRO, TPH-GRO, and hexavalent chromium
- Field Blank and Equipment Blank
 - Soil VOCs, SVOCs, Metals, Oil & Grease, TPH-DRO, TPH-GRO, hexavalent chromium, and cyanide
 - Water VOCs, SVOCs, Metals, Oil & Grease, TPH-DRO, TPH-GRO, hexavalent chromium, and cyanide

The QA/QC samples will be collected and analyzed in accordance with the QAPP Worksheet 12 – Measurement Performance Criteria, QAPP Worksheet 20 – Field Quality Control, and QAPP Worksheet 28 – Analytical Quality Control and Corrective Action.

5.0 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

All investigation derived waste (IDW) procedures will be carried out in accordance with methods referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 005 – Investigation-Derived Wastes Management.

6.0 DATA VALIDATION

For this Phase II Investigation of Parcel B24, a representative 30% of the complete analytical dataset will undergo data validation. Samples will be selected in groups according to the PACE project number assigned to each set of samples. Each PACE project number will be assigned a sequential number (from 1, 2, 3 ... n) in the order received by the laboratory until all sample groups for the Site have been received by the laboratory. The random number function will be used to randomly order the project numbers and project numbers will then be selected from top to bottom until 30% or more of the total number of samples at the Site have been identified for validation.

All data validation procedures will be carried out in accordance with the QAPP Worksheet 34 – Data Verification and Validation Inputs, QAPP Worksheet 35 – Data Verification Procedures, and QAPP Worksheet 36 – Data Validation Procedures.

7.0 REPORTING

Following the receipt of all sampling results and the designated 30% of validated data from Area B: Parcel B24, a Phase II Investigation Report will be prepared that will document the sample collection procedures and supporting rationale, and present and interpret the analytical results. Results will be presented in tabular and graphical formats as appropriate to best summarize the data for future use. The sample results will be compared against the PALs specified in the QAPP (or other direct guidance from the MDE), considering appropriate land use factors and institutional controls, to identify contaminants and exposure pathways of potential concern.

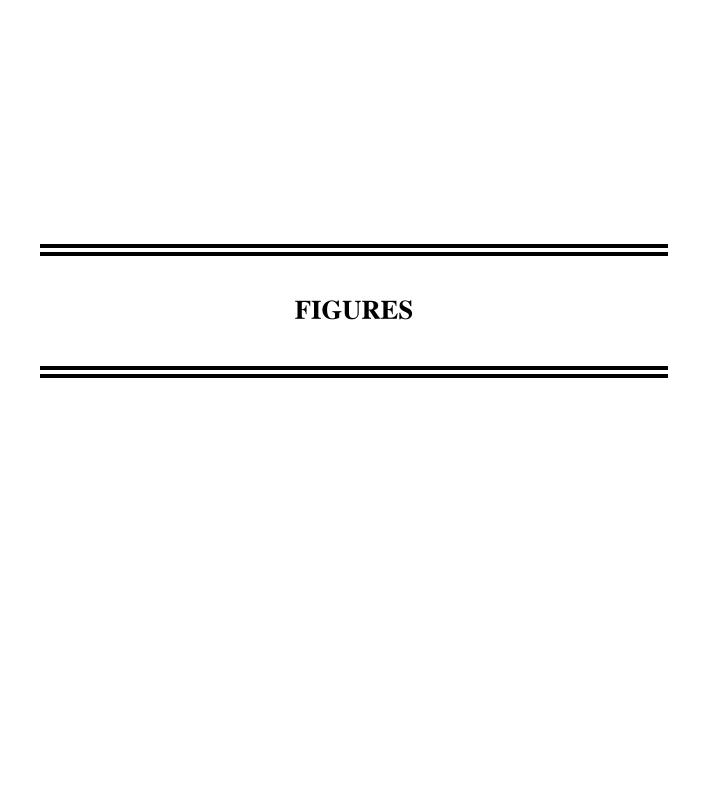
Lead, PCBs, and TPH/Oil & Grease are subject to special requirements as designated by the agencies: lead results above 10,000 mg/kg are subject to additional delineation (and possible excavation), PCB results above 50 mg/kg are subject to delineation and excavation, and TPH/Oil & Grease results above 6,200 mg/kg should be evaluated for the potential presence and mobility of NAPL in any future development planning. ARM will identify exceedances of these criteria and present recommendations for any additional site investigation activities if warranted.

As development projects continue to be proposed on the Tradepoint Atlantic property in the future, the results obtained during this Phase II Investigation will be 1) incorporated into a human health SLRA within a RADWP to evaluate any potential risks to future workers in the development area; or 2) evaluated within an alternative supplemental SLRA document for areas that are not being developed. The SLRA will be conducted using standard procedures which have been approved by the MDE and USEPA, and will incorporate any additional site-specific considerations (as necessary) based on development planning.

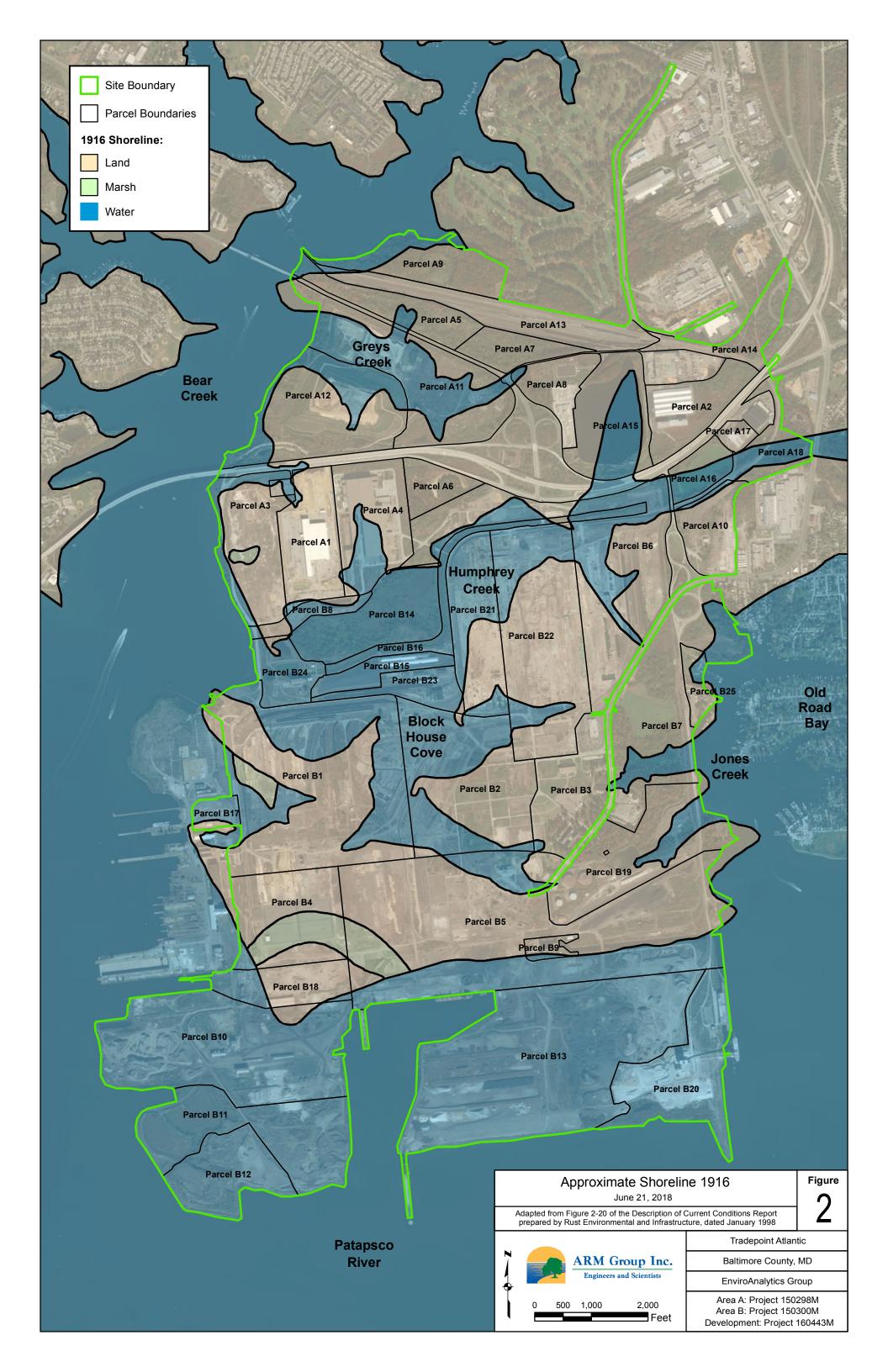
8.0 SCHEDULE

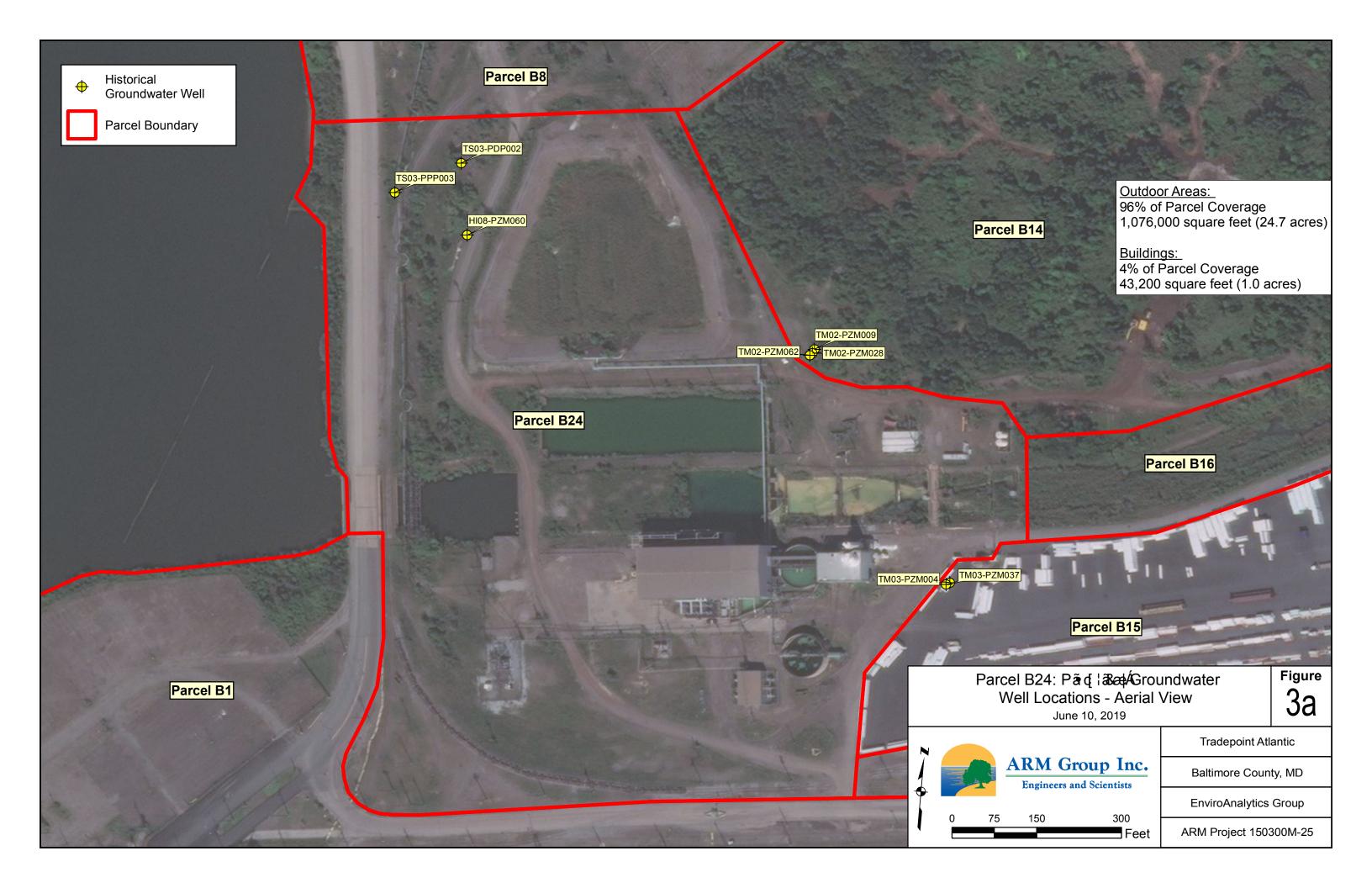
The field activities below (including sample analysis and data validation) are planned so that they may be completed within 6 months of agency approval of this Work Plan. In addition, the investigation report will be submitted to the regulatory authorities within 2 months of completion of the field activities in accordance with these approximate timeframes:

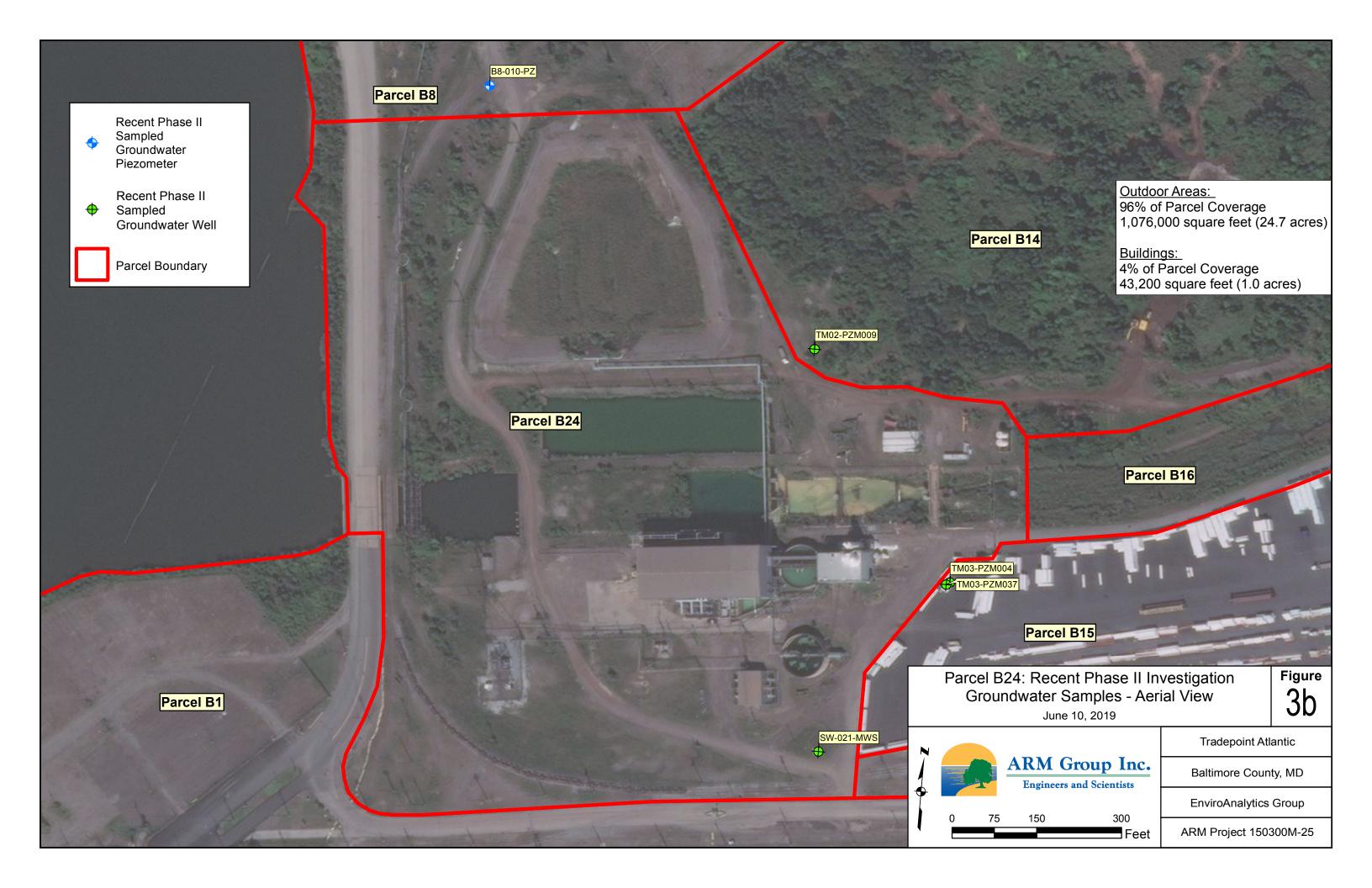
- the sample collection activities will take approximately 6 weeks to complete (including mobilization activities) once approval of the Work Plan is received;
- the sample analysis, data validation, and review is expected to require an additional 8 weeks to complete; and
- the preparation of the investigation report, including an internal QA review cycle, will require another 8 weeks.

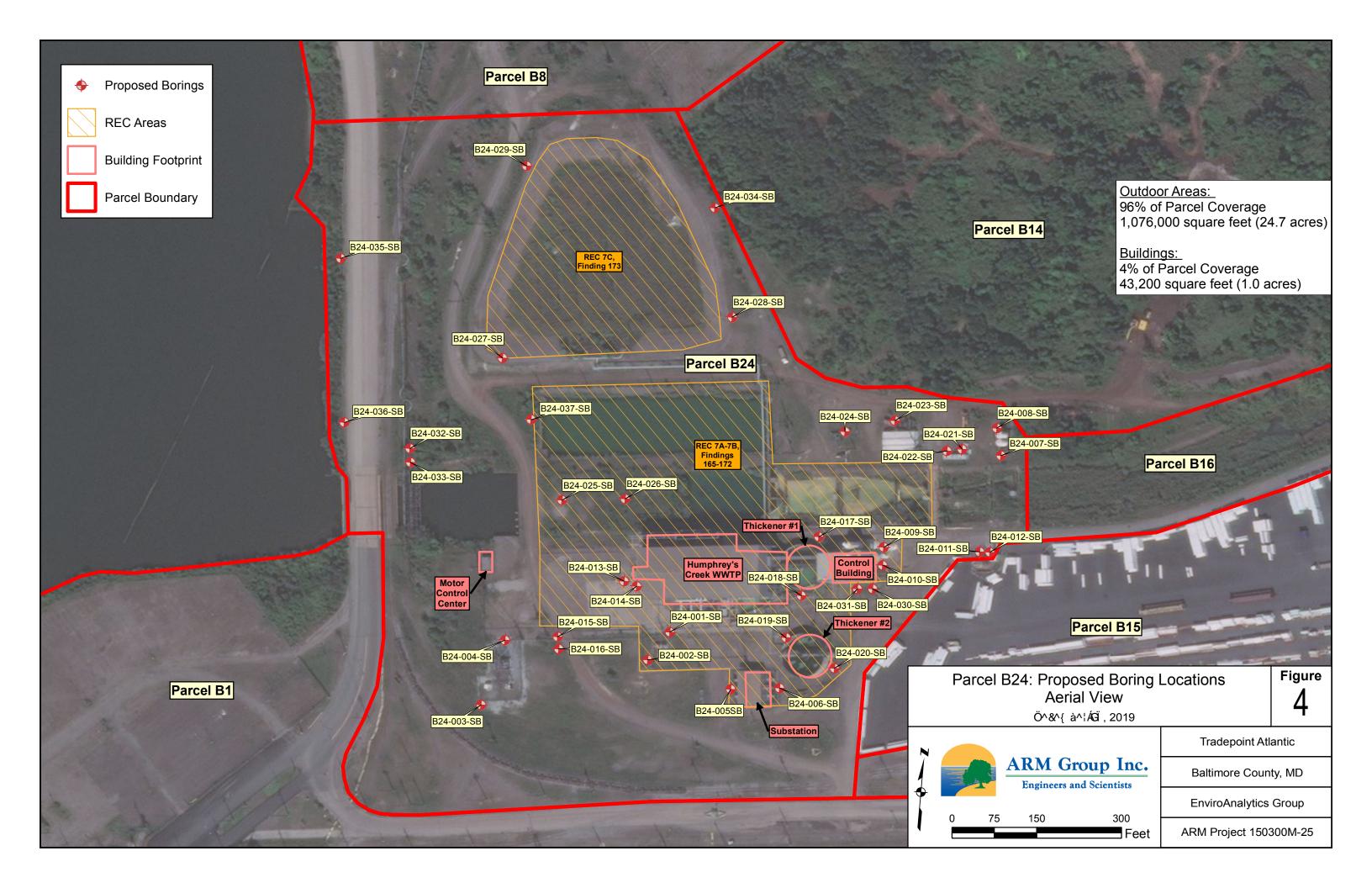


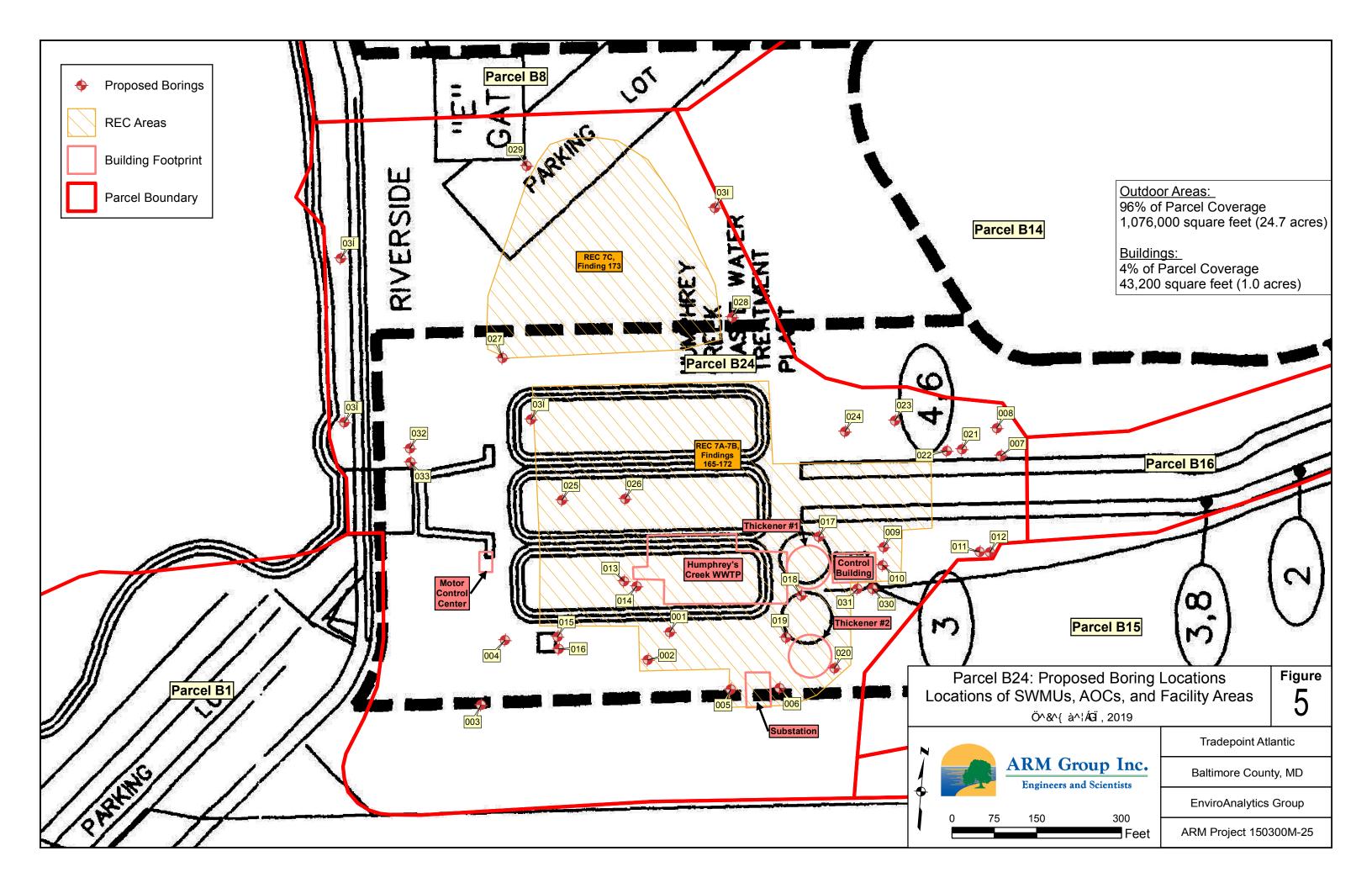


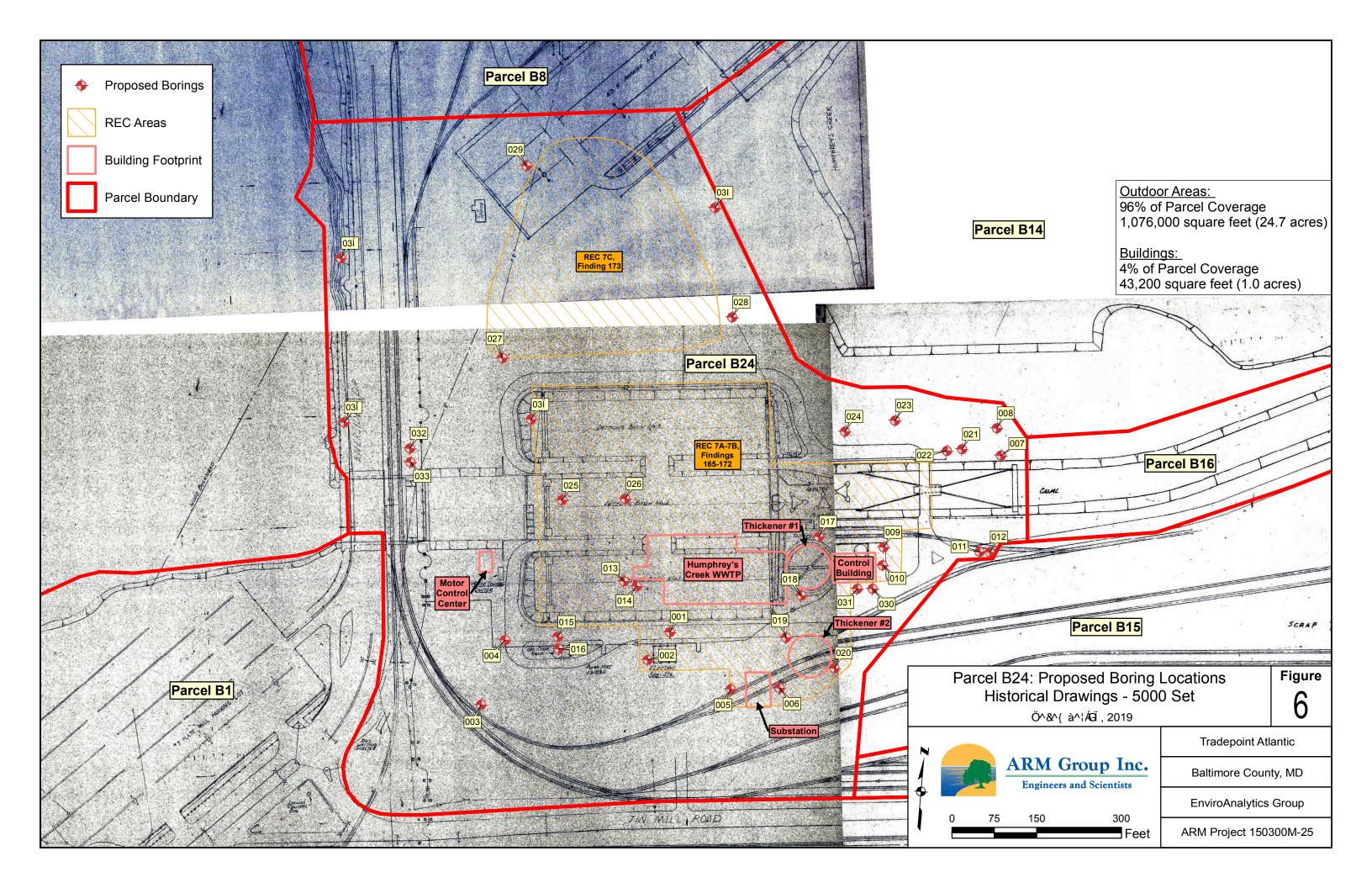


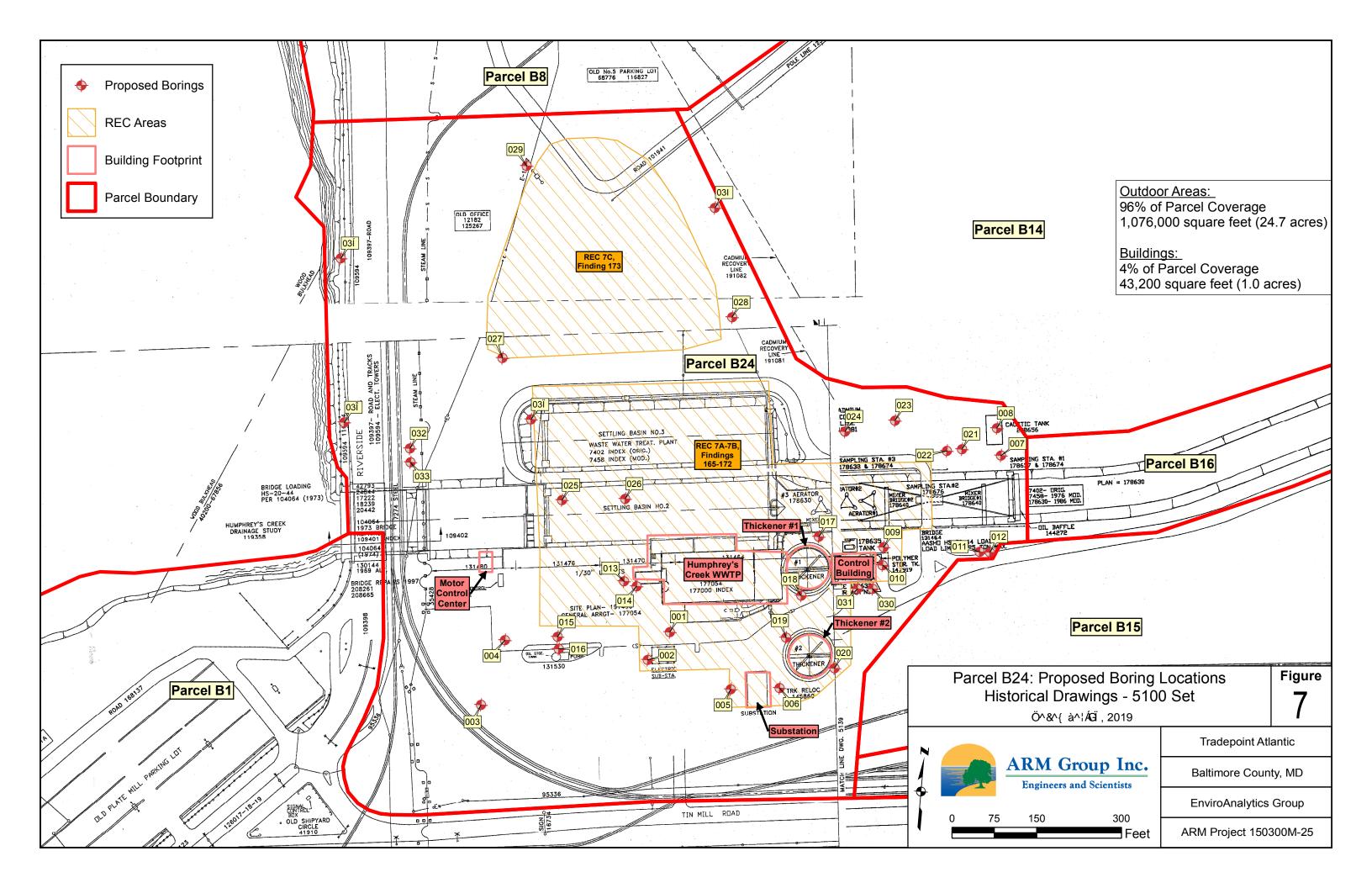


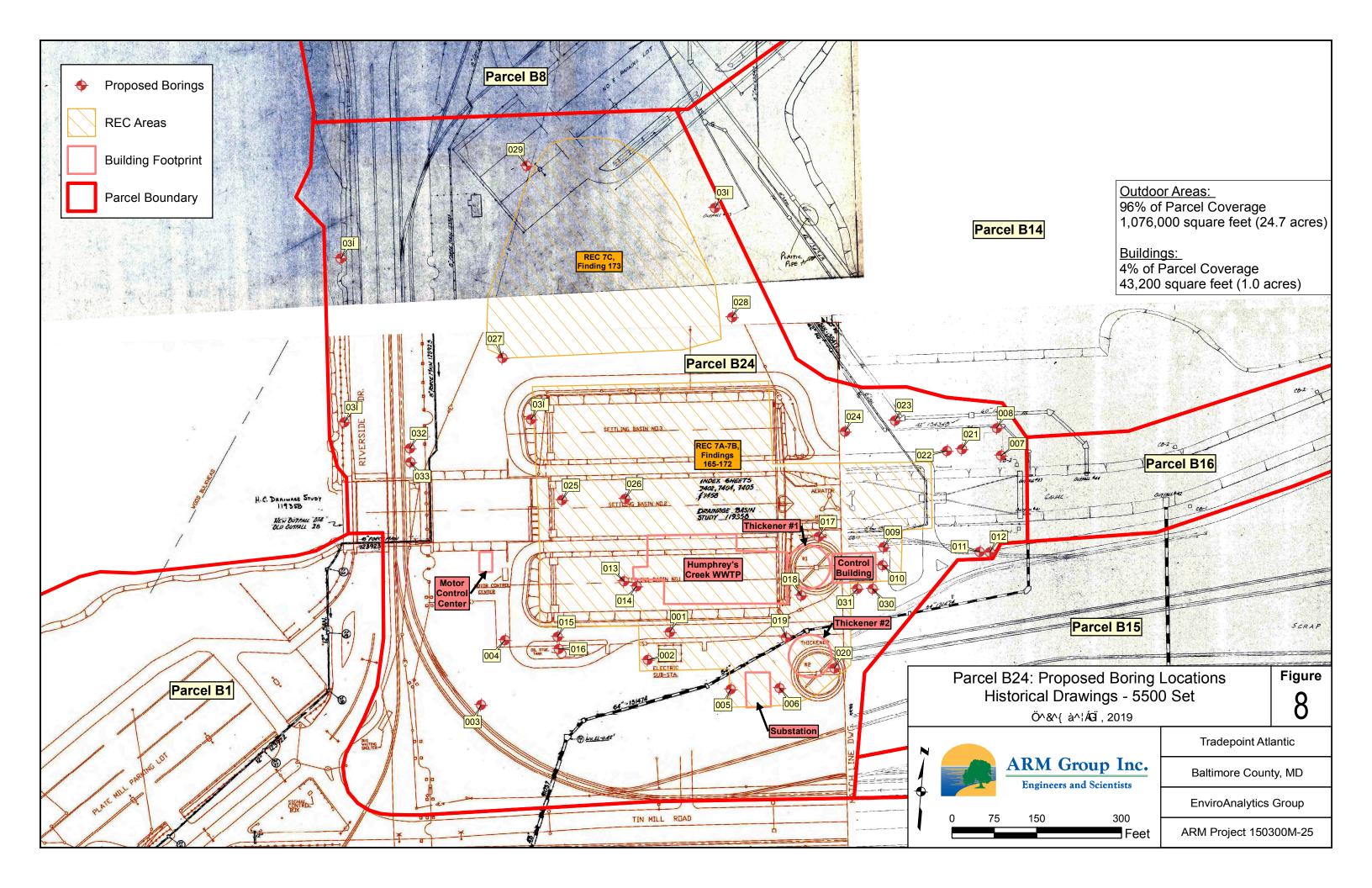


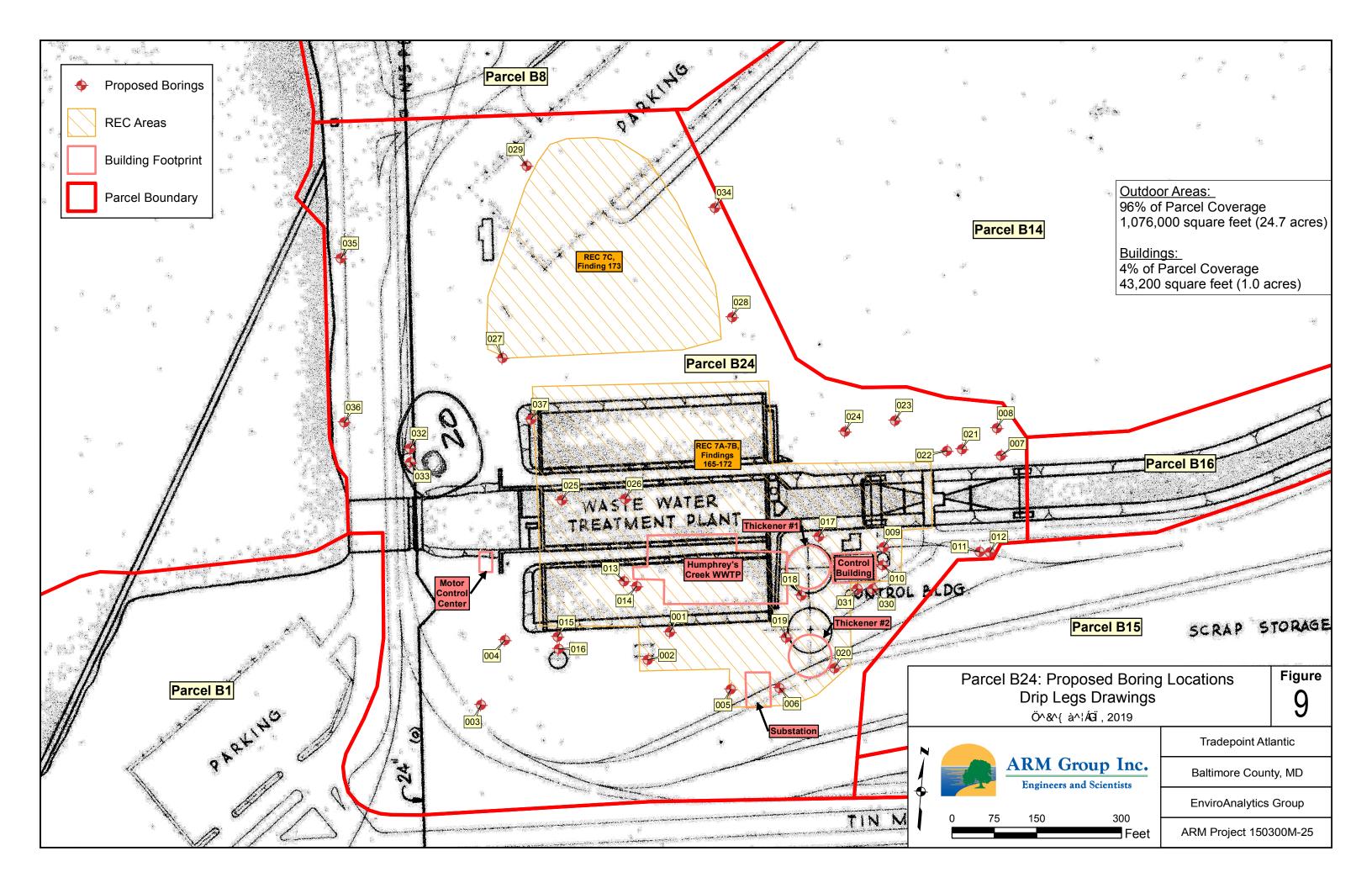


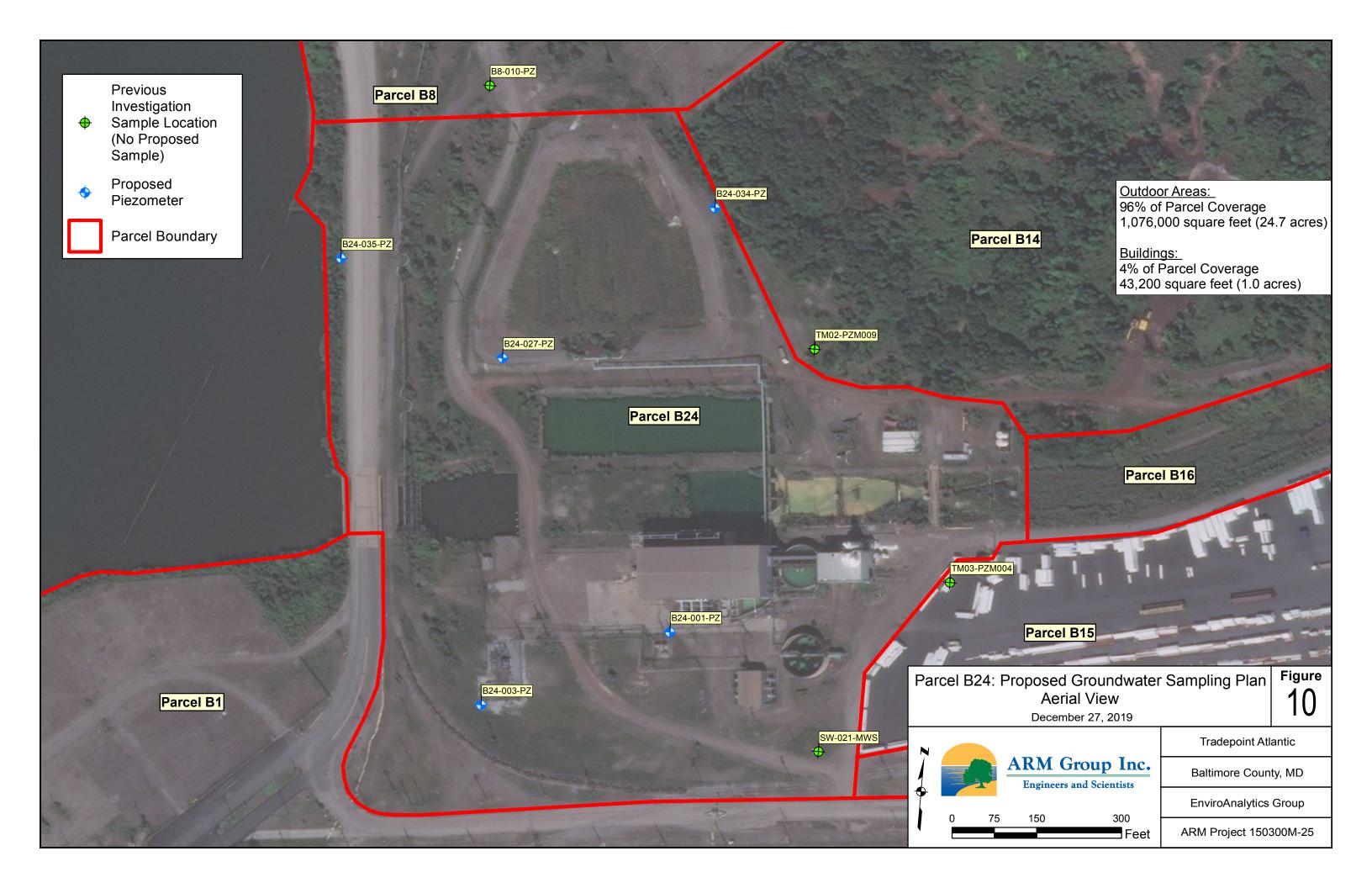












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APPENDIX A

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Parcel B24 Site Visit Photograph Log Former Sparrows Point Steel Mill Sparrows Point, Maryland



031518-1: View of Humphrey's Wastewater Treatment Plant (HWWTP), Thickener #2, and a set of two substations along the east and west side of the electrical building in the center of the photo.



031518-2: View of a third substation located south of the southwest corner of HWWTP.



031518-3: View of a fourth substation located along the southwestern corner of Parcel B24 facing west.



031518-4: View of western wall of HWWTP and a sulfuric acid AST facing east.



031518-5: View of HWWTP to the right and settling basin to the left facing east.



031518-6: View of discharge from HWWTP to Bear Creek facing west.



031518-7: View of the 2.5-acre emergency detention basin, facing west.



031518-8: Another view of the emergency detention basin, facing north.



031518-9: View of the settling basins facing south.



031518-10: View of various chemicals utilized in the HWWTP treatment process stored on the north side of the Tin Mill Canal.



031518-11: Close-up view of some of the various chemicals from the prior photograph.



031518-12: View of two ASTs with secondary containment located north of the Tin Mill Canal. The ASTs are labeled "WATER" but the danger sign states "CAUSTIC" and the hazardous material placard also indicates caustic.



031518-13: View of an AST containing sodium hydrosulfide (NaSH) located south of the Tin Mill Canal along the parcel boundary line.



031518-14: View of additional ASTs and silos used to store unknown treatment chemicals as part of the wastewater treatment process located in and around the Control Building. The unknown white powder on the ground is presumed to be a water treatment chemical.



031518-15: View of the sludge bin filling area in which sludge filter cake from the wastewater treatment process enters the two sludge bins photographed above. These sludge bins are located under the Control Building.



031518-16: View of Thickener #2 located south of the HWWTP facing southwest.



031518-17: View of Thickener #1 located between the Control Building and the HWWTP facing north.

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APPENDIX B

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		Screen						
Well	Zone	Interval	Parameter	Sample Date	Result (ug/L)	Flag	PAL (ug/L)	PAL Exceedance?
		(feet bgs)					. 0 ,	
HI08-PZM003*	Shallow	5-15	Iron	10/1/2000	200		14,000	No
HI08-PZM003*	Shallow	5-15	1,1,1-Trichloroethane	7/1/2004	1	U	200	No
HI08-PZM003*	Shallow	5-15	1,1,2,2-Tetrachloroethane	7/1/2004	1	U	0.076	No
HI08-PZM003*	Shallow	5-15	1,1,2-Trichloroethane	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	1,1-Dichloroethane	7/1/2004	1	U	2.7	No
HI08-PZM003*	Shallow	5-15	1,1-Dichloroethene	7/1/2004	1	U	7	No
HI08-PZM003*	Shallow	5-15	1,2,4-Trichlorobenzene	7/1/2004	10	U	70	No
HI08-PZM003*	Shallow	5-15	1,2-Dichlorobenzene	7/1/2004	10	U	600	No
HI08-PZM003*	Shallow	5-15	1,2-Dichloroethane	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	1,2-Dichloropropane	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	1,3-Dichlorobenzene	7/1/2004	10	U	7.5	No
HI08-PZM003*	Shallow	5-15	1,4-Dichlorobenzene	7/1/2004	10	U	75	No
HI08-PZM003*	Shallow	5-15	2,4,5-Trichlorophenol	7/1/2004	10	U	1,200	No
HI08-PZM003*	Shallow	5-15	2,4,6-Trichlorophenol	7/1/2004	10	U	4	No
HI08-PZM003*	Shallow	5-15	2,4-Dichlorophenol	7/1/2004	10	U	46	No
HI08-PZM003*	Shallow	5-15	2,4-Dimethylphenol	7/1/2004	10	U	360	No
HI08-PZM003*	Shallow	5-15	2,4-Dinitrophenol	7/1/2004	50	U	39	No
HI08-PZM003*	Shallow	5-15	2,4-Dinitrotoluene	7/1/2004	10	U	0.24	No
HI08-PZM003*	Shallow	5-15	2,6-Dinitrotoluene	7/1/2004	10	U	0.048	No
HI08-PZM003*	Shallow	5-15	2-Butanone (MEK)	7/1/2004	5	U	5,600	No
HI08-PZM003*	Shallow	5-15	2-Chloronaphthalene	7/1/2004	10	U	750	No
HI08-PZM003*	Shallow	5-15	2-Chlorophenol	7/1/2004	10	U	91	No
HI08-PZM003*	Shallow	5-15	2-Hexanone	7/1/2004	5	U	38	No
HI08-PZM003*	Shallow	5-15	2-Methylnaphthalene	7/1/2004	10	U	36	No
HI08-PZM003*	Shallow	5-15	2-Methylphenol	7/1/2004	10	U	930	No
HI08-PZM003*	Shallow	5-15	3,3'-Dichlorobenzidine	7/1/2004	20	U	0.12	No
HI08-PZM003*	Shallow	5-15	4-Methyl-2-pentanone (MIBK)	7/1/2004	5	U	1,200	No
HI08-PZM003*	Shallow	5-15	Acenaphthene	7/1/2004	10	U	530	No
HI08-PZM003*	Shallow	5-15	Acenaphthylene	7/1/2004	10	U	530	No
HI08-PZM003*	Shallow	5-15	Acetone	7/1/2004	3.3	J	14,000	No
HI08-PZM003*	Shallow	5-15	Anthracene	7/1/2004	10	U	1,800	No
HI08-PZM003*	Shallow	5-15	Antimony	7/1/2004	2.3	U	6	No
HI08-PZM003*	Shallow	5-15	Antimony, dissolved	7/1/2004	2.2	U	6	No
HI08-PZM003*	Shallow	5-15	Arsenic	7/1/2004	5.7		10	No
HI08-PZM003*	Shallow	5-15	Arsenic, dissolved	7/1/2004	6		10	No
HI08-PZM003*	Shallow	5-15	Barium	7/1/2004	35		2,000	No
HI08-PZM003*	Shallow	5-15	Barium, dissolved	7/1/2004	34		2,000	No
HI08-PZM003*	Shallow	5-15	Benz[a]anthracene	7/1/2004	10	U	0.03	No
HI08-PZM003*	Shallow	5-15	Benzene	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	Benzo[a]pyrene	7/1/2004	10	U	0.2	No
HI08-PZM003*	Shallow	5-15	Benzo[b]fluoranthene	7/1/2004	10	U	0.25	No
HI08-PZM003*	Shallow	5-15	Benzo[g,h,i]perylene	7/1/2004	10	U		No
HI08-PZM003*	Shallow	5-15	Benzo[k]fluoranthene	7/1/2004	10	U	2.5	No
HI08-PZM003*	Shallow	5-15	Beryllium	7/1/2004	1	U	4	No
HI08-PZM003*	Shallow	5-15	Beryllium, dissolved	7/1/2004	1	U	4	No
HI08-PZM003*	Shallow	5-15	bis(2-Chloroethoxy)methane	7/1/2004	10	U	59	No
HI08-PZM003*	Shallow	5-15	bis(2-Chloroethyl)ether	7/1/2004	10	U	0.014	No
HI08-PZM003*	Shallow	5-15	bis(2-Ethylhexyl)phthalate	7/1/2004	28		6	Yes
HI08-PZM003*	Shallow	5-15	Bromoform	7/1/2004	1.9	1	3.3	No
HI08-PZM003*	Shallow	5-15	Cadmium	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	Cadmium, dissolved	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	Carbon disulfide	7/1/2004	1	U	810	No
HI08-PZM003*	Shallow	5-15	Carbon tetrachloride	7/1/2004	1	U	5	No
HI08-PZM003*	Shallow	5-15	Chlorobenzene	7/1/2004	1	UL	100	No
HI08-PZM003*	Shallow	5-15	Chloroethane	7/1/2004	1	U	21,000	No
HI08-PZM003*	Shallow	5-15	Chloroform	7/1/2004	1	U	0.22	No
HI08-PZM003*	Shallow	5-15	Chromium	7/1/2004	11	U	100	No
HI08-PZM003*	Shallow	5-15	Chromium, dissolved	7/1/2004	11	U	100	No
HI08-PZM003*	Shallow	5-15	Chrysene	7/1/2004	10	U	25	No
HI08-PZM003*	Shallow	5-15	cis-1,3-Dichloropropene	7/1/2004	1	U	Ī	No

	ı		Sparrows Point, Marylai	ıu			l	
	_	Screen		Sample	Result		PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
		(feet bgs)				_		
HI08-PZM003*	Shallow	5-15	Cobalt	7/1/2004	0.6	J	6	No
HI08-PZM003* HI08-PZM003*	Shallow Shallow	5-15 5-15	Cobalt, dissolved	7/1/2004 7/1/2004	0.5 6	J	1,300	No No
HI08-PZM003*	Shallow	5-15	Copper Copper, dissolved	7/1/2004	4.8		1,300	No No
HI08-PZM003*	Shallow	5-15	Cyanide, available	7/1/2004	2	U	200	No
HI08-PZM003*	Shallow	5-15	Cyanide, available Cyanide, total	7/1/2004	21	U	200	No
HI08-PZM003*	Shallow	5-15	Dibenz[a,h]anthracene	7/1/2004	10	U	0.025	No
HI08-PZM003*	Shallow	5-15	Diethylphthalate	7/1/2004	10	U	15,000	No
HI08-PZM003*	Shallow	5-15	Di-n-butylphthalate	7/1/2004	10	U	900	No
HI08-PZM003*	Shallow	5-15	Di-n-octylphthalate	7/1/2004	10	U	200	No
HI08-PZM003*	Shallow	5-15	Ethylbenzene	7/1/2004	1	U	700	No
HI08-PZM003*	Shallow	5-15	Fluoranthene	7/1/2004	10	U	800	No
HI08-PZM003*	Shallow	5-15	Fluorene	7/1/2004	10	U	290	No
HI08-PZM003*	Shallow	5-15	Hexachlorobenzene	7/1/2004	10	U	1	No
HI08-PZM003*	Shallow	5-15	Hexachlorobutadiene	7/1/2004	10	U	0.14	No
HI08-PZM003*	Shallow	5-15	Hexachlorocyclopentadiene	7/1/2004	10	U	50	No
HI08-PZM003*	Shallow	5-15	Hexachloroethane	7/1/2004	10	U	0.33	No
HI08-PZM003*	Shallow	5-15	Indeno[1,2,3-cd]pyrene	7/1/2004	10	U	0.25	No
HI08-PZM003*	Shallow	5-15	Iron	7/1/2004	70	J	14,000	No
HI08-PZM003*	Shallow	5-15	Isophorone	7/1/2004	10	U	78	No
HI08-PZM003*	Shallow	5-15	Lead	7/1/2004	1	U	15	No
HI08-PZM003*	Shallow	5-15	Lead, dissolved	7/1/2004	1	U	15	No
HI08-PZM003*	Shallow	5-15	Mercury	7/1/2004	0.2	U	2	No
HI08-PZM003*	Shallow	5-15	Mercury, dissolved	7/1/2004	0.2	U	2	No
HI08-PZM003*	Shallow	5-15	Methylene chloride	7/1/2004	1.7	U	5	No
HI08-PZM003*	Shallow	5-15	Naphthalene	7/1/2004	10	U	0.17	No
HI08-PZM003*	Shallow	5-15	Nickel	7/1/2004	6	U	390	No
HI08-PZM003*	Shallow	5-15	Nickel, dissolved	7/1/2004	6.1	U	390	No
HI08-PZM003*	Shallow	5-15	Nitrobenzene	7/1/2004	10	U	0.14	No
HI08-PZM003*	Shallow	5-15	Pentachlorophenol	7/1/2004	50	U	1	No
HI08-PZM003*	Shallow	5-15	Phenanthrene	7/1/2004	10	U		No
HI08-PZM003*	Shallow	5-15	Phenol	7/1/2004	10	U	5,800	No
HI08-PZM003*	Shallow	5-15	Pyrene	7/1/2004	10	U	120	No
HI08-PZM003*	Shallow	5-15	Selenium	7/1/2004	8.6		50	No
HI08-PZM003*	Shallow	5-15	Selenium, dissolved	7/1/2004	6.9		50	No
HI08-PZM003*	Shallow	5-15	Silver	7/1/2004	5	U	94	No
HI08-PZM003*	Shallow	5-15	Silver, dissolved	7/1/2004	5	U	94	No
HI08-PZM003*	Shallow	5-15 5-15	Tetrachloroethene Thallium	7/1/2004	1	UL	5	No
HI08-PZM003*	Shallow			7/1/2004	<u>1</u> 1	U	2 2	No
HI08-PZM003* HI08-PZM003*	Shallow Shallow	5-15	Thallium, dissolved Toluene	7/1/2004 7/1/2004	1	U	1,000	No
HI08-PZM003*	Shallow	5-15 5-15	trans-1,2-Dichloroethene	7/1/2004	1	U	100	No No
HI08-PZM003*	Shallow	5-15	trans-1,3-Dichloropropene	7/1/2004	1	U	100	No
HI08-PZM003*	Shallow	5-15	Trichloroethene	7/1/2004	1	UL	5	No
HI08-PZM003*	Shallow	5-15	Vanadium	7/1/2004	170	OL	86	Yes
HI08-PZM003*	Shallow	5-15	Vanadium, dissolved	7/1/2004	170		86	Yes
HI08-PZM003*	Shallow	5-15	Vinyl chloride	7/1/2004	1	U	2	No
HI08-PZM003*	Shallow	5-15	Xylenes	7/1/2004	1	U	10,000	No
HI08-PZM003*	Shallow	5-15	Zinc	7/1/2004	10	U	6,000	No
HI08-PZM003*	Shallow	5-15	Zinc, dissolved	7/1/2004	12	U	6,000	No
HI08-PZM060	Lower	TD = 73	1,1,1-Trichloroethane	7/1/2004	1	U	200	No
HI08-PZM060	Lower	TD = 73	1,1,2,2-Tetrachloroethane	7/1/2004	1	U	0.076	No
HI08-PZM060	Lower	TD = 73	1,1,2-Trichloroethane	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	1,1-Dichloroethane	7/1/2004	1	U	2.7	No
HI08-PZM060	Lower	TD = 73	1,1-Dichloroethene	7/1/2004	1	U	7	No
HI08-PZM060	Lower	TD = 73	1,2,4-Trichlorobenzene	7/1/2004	10	U	70	No
HI08-PZM060	Lower	TD = 73	1,2-Dichlorobenzene	7/1/2004	10	U	600	No
HI08-PZM060	Lower	TD = 73	1,2-Dichloroethane	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	1,2-Dichloropropane	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	1,3-Dichlorobenzene	7/1/2004	10	U		No

		Screen	Sparrows Point, Maryl					
Well	Zone		Parameter	Sample	Result	Flag	PAL	PAL
vven	Zone	Interval	Parameter	Date	(ug/L)	riag	(ug/L)	Exceedance?
HI08-PZM060	Lower	(feet bgs) TD = 73	1,4-Dichlorobenzene	7/1/2004	10	U	75	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,4,5-Trichlorophenol	7/1/2004	10	U	1,200	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,4,6-Trichlorophenol	7/1/2004	10	U	4	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,4-Dichlorophenol	7/1/2004	10	U	46	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,4-Dimethylphenol	7/1/2004	10	U	360	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,4-Dinitrophenol	7/1/2004	50	U	39	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,4-Dinitrotoluene	7/1/2004	10	U	0.24	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2,6-Dinitrotoluene	7/1/2004	10	U	0.048	No
HI08-PZM060	Lower	TD = 73	2-Butanone (MEK)	7/1/2004	5	U	5,600	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2-Chloronaphthalene	7/1/2004	10	U	750	No
HI08-PZM060	Lower	TD = 73	2-Chlorophenol	7/1/2004	10	U	91	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	2-Hexanone	7/1/2004	5	U	38	No
HI08-PZM060	Lower	TD = 73	2-Methylnaphthalene	7/1/2004	10	U	36	No
HI08-PZM060	Lower	TD = 73	2-Methylphenol	7/1/2004	10	U	930	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	3,3'-Dichlorobenzidine	7/1/2004	20	U	0.12	No
HI08-PZM060	Lower	TD = 73 $TD = 73$	4-Methyl-2-pentanone (MIBK)	7/1/2004	5	U	1,200	No
HI08-PZM060	Lower	TD = 73	Acenaphthene	7/1/2004	10	U	530	No
HI08-PZM060	Lower	TD = 73	Acenaphthylene	7/1/2004	10	U	530	No
HI08-PZM060	Lower	TD = 73	Acetone	7/1/2004	3.4	J	14,000	No
HI08-PZM060	Lower	TD = 73	Anthracene	7/1/2004	10	U	1,800	No
HI08-PZM060	Lower	TD = 73	Antimony	7/1/2004	2	U	6	No
HI08-PZM060	Lower	TD = 73	Antimony, dissolved	7/1/2004	2	U	6	No
HI08-PZM060	Lower	TD = 73	Arsenic	7/1/2004	6.5		10	No
HI08-PZM060	Lower	TD = 73	Arsenic, dissolved	7/1/2004	8.3		10	No
HI08-PZM060	Lower	TD = 73	Barium	7/1/2004	180		2,000	No
HI08-PZM060	Lower	TD = 73	Barium, dissolved	7/1/2004	180		2,000	No
HI08-PZM060	Lower	TD = 73	Benz[a]anthracene	7/1/2004	10	U	0.03	No
HI08-PZM060	Lower	TD = 73	Benzene	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	Benzo[a]pyrene	7/1/2004	10	U	0.2	No
HI08-PZM060	Lower	TD = 73	Benzo[b]fluoranthene	7/1/2004	10	U	0.25	No
HI08-PZM060	Lower	TD = 73	Benzo[g,h,i]perylene	7/1/2004	10	U		No
HI08-PZM060	Lower	TD = 73	Benzo[k]fluoranthene	7/1/2004	10	U	2.5	No
HI08-PZM060	Lower	TD = 73	Beryllium	7/1/2004	1	U	4	No
HI08-PZM060	Lower	TD = 73	Beryllium, dissolved	7/1/2004	1	U	4	No
HI08-PZM060	Lower	TD = 73	bis(2-Chloroethoxy)methane	7/1/2004	10	U	59	No
HI08-PZM060	Lower	TD = 73	bis(2-Chloroethyl)ether	7/1/2004	10	U	0.014	No
HI08-PZM060	Lower	TD = 73	bis(2-Ethylhexyl)phthalate	7/1/2004	10	U	6	No
HI08-PZM060	Lower	TD = 73	Bromoform	7/1/2004	1	U	3.3	No
HI08-PZM060	Lower	TD = 73	Cadmium	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	Cadmium, dissolved	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	Carbon disulfide	7/1/2004	1	U	810	No
HI08-PZM060	Lower	TD = 73	Carbon tetrachloride	7/1/2004	1	U	5	No
HI08-PZM060	Lower	TD = 73	Chlorobenzene	7/1/2004	1	UL	100	No
HI08-PZM060	Lower	TD = 73	Chloroethane	7/1/2004	1	U	21,000	No
HI08-PZM060	Lower	TD = 73	Chloroform	7/1/2004	1	U	0.22	No
HI08-PZM060	Lower	TD = 73	Chromium	7/1/2004	3.1	U	100	No
HI08-PZM060	Lower	TD = 73	Chromium, dissolved	7/1/2004	3.1	U	100	No
HI08-PZM060	Lower	TD = 73	Chrysene	7/1/2004	10	U	25	No
HI08-PZM060	Lower	TD = 73	cis-1,3-Dichloropropene	7/1/2004	1	U		No
HI08-PZM060	Lower	TD = 73	Cobalt	7/1/2004	1.3		6	No
HI08-PZM060	Lower	TD = 73	Cobalt, dissolved	7/1/2004	1		6	No
HI08-PZM060	Lower	TD = 73	Copper	7/1/2004	3.7		1,300	No
HI08-PZM060	Lower	TD = 73	Copper, dissolved	7/1/2004	3.3		1,300	No
HI08-PZM060	Lower	TD = 73	Cyanide, available	7/1/2004	2	U	200	No
HI08-PZM060	Lower	TD = 73	Cyanide, total	7/1/2004	4.1		200	No
HI08-PZM060	Lower	TD = 73	Dibenz[a,h]anthracene	7/1/2004	10	U	0.025	No
HI08-PZM060	Lower	TD = 73	Diethylphthalate	7/1/2004	10	U	15,000	No
HI08-PZM060	Lower	TD = 73	Di-n-butylphthalate	7/1/2004	10	U	900	No
HI08-PZM060	Lower	TD = 73	Di-n-octylphthalate	7/1/2004	10	U	200	No
HI08-PZM060	Lower	TD = 73	Ethylbenzene	7/1/2004	1	U	700	No

No. Parameter Date Ug/L Compt. Parameter Date Ug/L Ug/L Compt. Parameter Parameter Date Ug/L Ug/L Compt. Parameter Parameter Date Ug/L Ug/L Compt. Parameter Parameter Date Ug/L Ug/L Parameter Ug/L Ug/L Parameter Ug/L Ug/L			G	Sparrows Point, Marylan	u I I				
HIDS-172M050	XX7_11	7	Screen	D	Sample	Result	T21	PAL	PAL
HIBS F2M60 Lower TD = 73 Hearanthere	vven	Zone		Parameter	Date	(ug/L)	riag	(ug/L)	Exceedance?
HIGS F2M600	HI08 DZM060	Lower	. 0 /	Eluoranthona	7/1/2004	10	II	800	No
HIGS-PZM060									
HIRS #ZM000									
HBB-872M060									
HIRS-PZM060			1						
HIBS-PZM600				· 1					
HION-PYMORO Lower TD = 73 Non-									
HIGNS-PZM060									
HIGS-PZM660							II		
HIRS-PZM060				1					
HIBS-PZM660									
HIBS-PZM060				· · · · · · · · · · · · · · · · · · ·					
HIBB-PZM060				y .					
HIBS-PZM060									
HIOS.PZM060			1	•					
HIOS-PZM060				1					
HIOS-PZMO60									
H08-PZM060			1	,					
HIOS-PZM060									
HIOS-PZMO60								-	
HIOS-PZMO60								5.800	
HIOS-PZMO60									
HI08-PZM060									
HI08-PZM060									
Hi08-PZM060				· · · · · · · · · · · · · · · · · · ·			U		
Hi08-PZM060									
H08-PZM060				*			UL	5	
H08-PZM060	HI08-PZM060	Lower	TD = 73	Thallium	7/1/2004	1	U	2	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Thallium, dissolved	7/1/2004	1	U	2	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Toluene	7/1/2004	1	U	1,000	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	trans-1,2-Dichloroethene	7/1/2004	1	U	100	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	trans-1,3-Dichloropropene	7/1/2004	1	U		No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Trichloroethene	7/1/2004	1	UL	5	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Vanadium	7/1/2004	5	U	86	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Vanadium, dissolved	7/1/2004	5	U	86	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Vinyl chloride	7/1/2004	1	U	2	No
HI08-PZM060	HI08-PZM060	Lower	TD = 73	Xylenes	7/1/2004	1	U	10,000	No
TM02-PZM009 Shallow 11-21 Iron 10/1/2000 100 U 14,000 No TM02-PZM009 Shallow 11-21 Calcium 12/19/2000 280,000 No No TM02-PZM009 Shallow 11-21 Iron 12/19/2000 100 U 14,000 No TM02-PZM009 Shallow 11-21 Magnesium 12/19/2000 100 U 430 No TM02-PZM009 Shallow 11-21 Manganese 12/19/2000 10 U 430 No TM02-PZM009 Shallow 11-21 Potassium 12/19/2000 74,000 No No TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No No TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1-Z-Trichloroethane 10/1/2001 1 U 2.7 No <td>HI08-PZM060</td> <td>Lower</td> <td></td> <td></td> <td>7/1/2004</td> <td>10</td> <td></td> <td>6,000</td> <td></td>	HI08-PZM060	Lower			7/1/2004	10		6,000	
TM02-PZM009 Shallow 11-21 Calcium 12/19/2000 280,000 No TM02-PZM009 Shallow 11-21 Iron 12/19/2000 100 U 14,000 No TM02-PZM009 Shallow 11-21 Magnesium 12/19/2000 100 U No TM02-PZM009 Shallow 11-21 Manganese 12/19/2000 10 U 430 No TM02-PZM009 Shallow 11-21 Potassium 12/19/2000 74,000 No No TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No No TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZ	HI08-PZM060	Lower	TD = 73	Zinc, dissolved	7/1/2004	10	U	6,000	No
TM02-PZM009 Shallow 11-21 Iron 12/19/2000 100 U 14,000 No TM02-PZM009 Shallow 11-21 Magnesium 12/19/2000 100 U No TM02-PZM009 Shallow 11-21 Manganese 12/19/2000 10 U 430 No TM02-PZM009 Shallow 11-21 Potassium 12/19/2000 74,000 No No TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No No TM02-PZM009 Shallow 11-21 I,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 1 U 7 No <td>TM02-PZM009</td> <td>Shallow</td> <td>11-21</td> <td>Iron</td> <td>10/1/2000</td> <td>100</td> <td>U</td> <td>14,000</td> <td>No</td>	TM02-PZM009	Shallow	11-21	Iron	10/1/2000	100	U	14,000	No
TM02-PZM009 Shallow 11-21 Magnesium 12/19/2000 100 U No TM02-PZM009 Shallow 11-21 Manganese 12/19/2000 10 U 430 No TM02-PZM009 Shallow 11-21 Potassium 12/19/2000 74,000 No TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,2-Trichlorobenzene 10/1/2001 1 U 7 No <		Shallow	11-21	Calcium	12/19/2000	280,000			No
TM02-PZM009 Shallow 11-21 Manganese 12/19/2000 10 U 430 No TM02-PZM009 Shallow 11-21 Potassium 12/19/2000 74,000 No TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,2-4-Trichlorobenzene 10/1/2001 1 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 5 No<	TM02-PZM009	Shallow	11-21	Iron	12/19/2000	100	U	14,000	No
TM02-PZM009 Shallow 11-21 Potassium 12/19/2000 74,000 No TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2-Trichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 5 <td< td=""><td>TM02-PZM009</td><td>Shallow</td><td></td><td>Magnesium</td><td>12/19/2000</td><td></td><td>U</td><td></td><td>No</td></td<>	TM02-PZM009	Shallow		Magnesium	12/19/2000		U		No
TM02-PZM009 Shallow 11-21 Sodium 12/19/2000 200,000 No TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,2-Trichloroethane 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 1 <		Shallow		C			U	430	No
TM02-PZM009 Shallow 11-21 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM02-PZM009 Shallow 11-21 1,1,2,2-Tetrachloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,2-Trichloroethane 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 10 U 5 No TM02-PZM009 Shallow 11-21 1,2-Dichloropropane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene	TM02-PZM009	Shallow	11-21	Potassium		74,000			No
TM02-PZM009 Shallow 11-21 1,1,2,2-Tetrachloroethane 10/1/2001 1 U 0.076 No TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,2,4-Trichlorobenzene 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 10 U 5 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene	TM02-PZM009					200,000			
TM02-PZM009 Shallow 11-21 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethene 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,2-Dichloropropane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/				1,1,1-Trichloroethane		1			No
TM02-PZM009 Shallow 11-21 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM02-PZM009 Shallow 11-21 1,1-Dichloroethene 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2,4-Trichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM02-PZM009 Shallow 11-21 1,2-Dichloroptopane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol				1,1,2,2-Tetrachloroethane		1	U	0.076	No
TM02-PZM009 Shallow 11-21 1,1-Dichloroethene 10/1/2001 1 U 7 No TM02-PZM009 Shallow 11-21 1,2,4-Trichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM02-PZM009 Shallow 11-21 1,2-Dichloroptopane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No		Shallow		1,1,2-Trichloroethane		1	U		No
TM02-PZM009 Shallow 11-21 1,2,4-Trichlorobenzene 10/1/2001 10 U 70 No TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM02-PZM009 Shallow 11-21 1,2-Dichloroptenane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No				-					
TM02-PZM009 Shallow 11-21 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,2-Dichloropropane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 10 U No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No				-					
TM02-PZM009 Shallow 11-21 1,2-Dichloroethane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,2-Dichloropropane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 10 U No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No				, ,					
TM02-PZM009 Shallow 11-21 1,2-Dichloropropane 10/1/2001 1 U 5 No TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 10 U No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No				,		10		600	No
TM02-PZM009 Shallow 11-21 1,3-Dichlorobenzene 10/1/2001 10 U No TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No	TM02-PZM009			1,2-Dichloroethane		1			
TM02-PZM009 Shallow 11-21 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No				1 1				5	
TM02-PZM009 Shallow 11-21 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No				· ·					
TM02-PZM009 Shallow 11-21 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No									
						10		1,200	No
TM02-PZM009 Shallow 11-21 2,4-Dichlorophenol 10/1/2001 10 U 46 No				· · ·					
	TM02-PZM009	Shallow	11-21	2,4-Dichlorophenol	10/1/2001	10	U	46	No

			Sparrows Point, Maryla	anu				
*** 11	7	Screen	D	Sample	Result	1731	PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TM02 DZM000	Shallow	(feet bgs)	2.4 Dimethedahara 1	10/1/2001	70		260	NI-
TM02-PZM009 TM02-PZM009	Shallow	11-21 11-21	2,4-Dimethylphenol 2,4-Dinitrophenol	10/1/2001	79 50	U	360 39	No No
TM02-PZM009	Shallow	11-21	2,4-Dinitrophenoi	10/1/2001	10	U	0.24	No
TM02-PZM009	Shallow	11-21	2,6-Dinitrotoluene	10/1/2001	10	U	0.24	No
TM02-1ZM009	Shallow	11-21	2-Butanone (MEK)	10/1/2001	5	U	5,600	No
TM02-1ZM009	Shallow	11-21	2-Chloronaphthalene	10/1/2001	10	U	750	No
TM02-PZM009	Shallow	11-21	2-Chlorophenol	10/1/2001	10	U	91	No
TM02-1ZM009	Shallow	11-21	2-Hexanone	10/1/2001	5	U	38	No
TM02-1ZM009	Shallow	11-21	2-Methylnaphthalene	10/1/2001	1.3	J	36	No
TM02-1ZM009	Shallow	11-21	2-Methylphenol	10/1/2001	4.5	J	930	No
TM02-PZM009	Shallow	11-21	3,3'-Dichlorobenzidine	10/1/2001	50	U	0.12	No
TM02-PZM009	Shallow	11-21	4-Methyl-2-pentanone (MIBK)	10/1/2001	5	U	1,200	No
TM02-PZM009	Shallow	11-21	Acenaphthene (WIBK)	10/1/2001	2.2	J	530	No
TM02-1 ZM009	Shallow	11-21	Acenaphthylene	10/1/2001	10	U	530	No
TM02-PZM009	Shallow	11-21	Acetone	10/1/2001	10	U	14,000	No
TM02-PZM009	Shallow	11-21	Anthracene	10/1/2001	10	U	1,800	No
TM02-PZM009	Shallow	11-21	Antimony	10/1/2001	4.1	U	6	No
TM02-PZM009	Shallow	11-21	Arsenic	10/1/2001	3.6	J	10	No
TM02-PZM009	Shallow	11-21	Barium	10/1/2001	92.4	J	2,000	No
TM02-PZM009	Shallow	11-21	Benz[a]anthracene	10/1/2001	10	U	0.03	No
TM02-PZM009	Shallow	11-21	Benzene	10/1/2001	2.1		5	No
TM02-PZM009	Shallow	11-21	Benzo[a]pyrene	10/1/2001	10	U	0.2	No
TM02-PZM009	Shallow	11-21	Benzo[b]fluoranthene	10/1/2001	10	U	0.25	No
TM02-PZM009	Shallow	11-21	Benzo[g,h,i]perylene	10/1/2001	10	U	0.20	No
TM02-PZM009	Shallow	11-21	Benzo[k]fluoranthene	10/1/2001	10	U	2.5	No
TM02-PZM009	Shallow	11-21	Beryllium	10/1/2001	1.8	U	4	No
TM02-PZM009	Shallow	11-21	bis(2-Chloroethoxy)methane	10/1/2001	10	U	59	No
TM02-PZM009	Shallow	11-21	bis(2-Chloroethyl)ether	10/1/2001	10	U	0.014	No
TM02-PZM009	Shallow	11-21	bis(2-Ethylhexyl)phthalate	10/1/2001	10	U	6	No
TM02-PZM009	Shallow	11-21	Bromoform	10/1/2001	1	U	3.3	No
TM02-PZM009	Shallow	11-21	Cadmium	10/1/2001	0.63	U	5	No
TM02-PZM009	Shallow	11-21	Carbon disulfide	10/1/2001	1	U	810	No
TM02-PZM009	Shallow	11-21	Carbon tetrachloride	10/1/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	Chlorobenzene	10/1/2001	1	U	100	No
TM02-PZM009	Shallow	11-21	Chloroethane	10/1/2001	2	U	21,000	No
TM02-PZM009	Shallow	11-21	Chloroform	10/1/2001	1	U	0.22	No
TM02-PZM009	Shallow	11-21	Chromium	10/1/2001	2.1	U	100	No
TM02-PZM009	Shallow	11-21	Chrysene	10/1/2001	10	U	25	No
TM02-PZM009	Shallow	11-21	cis-1,3-Dichloropropene	10/1/2001	1	U		No
TM02-PZM009	Shallow	11-21	Cobalt	10/1/2001	0.86	U	6	No
TM02-PZM009	Shallow	11-21	Copper	10/1/2001	0.77	U	1,300	No
TM02-PZM009	Shallow	11-21	Cyanide, amenable	10/1/2001	3,700	J	200	Yes
TM02-PZM009	Shallow	11-21	Dibenz[a,h]anthracene	10/1/2001	10	U	0.025	No
TM02-PZM009	Shallow	11-21	Diethylphthalate	10/1/2001	10	U	15,000	No
TM02-PZM009	Shallow	11-21	Di-n-butylphthalate	10/1/2001	10	U	900	No
TM02-PZM009	Shallow	11-21	Di-n-octylphthalate	10/1/2001	10	U	200	No
TM02-PZM009	Shallow	11-21	Ethylbenzene	10/1/2001	0.26	J	700	No
TM02-PZM009	Shallow	11-21	Fluoranthene	10/1/2001	10	U	800	No
TM02-PZM009	Shallow	11-21	Fluorene	10/1/2001	1.5	J	290	No
TM02-PZM009	Shallow	11-21	Hexachlorobenzene	10/1/2001	10	U	1	No
TM02-PZM009	Shallow	11-21	Hexachlorobutadiene	10/1/2001	10	U	0.14	No
TM02-PZM009	Shallow	11-21	Hexachlorocyclopentadiene	10/1/2001	50	U	50	No
TM02-PZM009	Shallow	11-21	Hexachloroethane	10/1/2001	10	U	0.33	No
TM02-PZM009	Shallow	11-21	Indeno[1,2,3-cd]pyrene	10/1/2001	10	U	0.25	No
TM02-PZM009	Shallow	11-21	Iron	10/1/2001	52.4	L	14,000	No
TM02-PZM009	Shallow	11-21	Isophorone	10/1/2001	10	U	78	No
TM02-PZM009	Shallow	11-21	Lead	10/1/2001	2.2	U	15	No
TM02-PZM009	Shallow	11-21	Mercury	10/1/2001	0.054	UL	2	No
TM02-PZM009	Shallow	11-21	Methylene chloride	10/1/2001	2	U	5	No
TM02-PZM009	Shallow	11-21	Naphthalene	10/1/2001	20		0.17	Yes

		Screen						
Well	Zone	Interval	Parameter	Sample	Result	Flag	PAL	PAL
***************************************	Zone	(feet bgs)	1 arameter	Date	(ug/L)	19	(ug/L)	Exceedance?
TM02-PZM009	Shallow	11-21	Nickel	10/1/2001	13.5	J	390	No
TM02-PZM009	Shallow	11-21	Nitrobenzene	10/1/2001	10	U	0.14	No
TM02-PZM009	Shallow	11-21	Pentachlorophenol	10/1/2001	50	U	1	No
TM02-PZM009	Shallow	11-21	Phenanthrene	10/1/2001	3.8	J		No
TM02-PZM009	Shallow	11-21	Phenol	10/1/2001	10	U	5,800	No
TM02-PZM009	Shallow	11-21	Pyrene	10/1/2001	10	U	120	No
TM02-PZM009	Shallow	11-21	Selenium	10/1/2001	5.5		50	No
TM02-PZM009	Shallow	11-21	Silver	10/1/2001	0.75	U	94	No
TM02-PZM009	Shallow	11-21	Tetrachloroethene	10/1/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	Thallium	10/1/2001	5.7	U	2	No
TM02-PZM009	Shallow	11-21	Toluene	10/1/2001	2.4		1,000	No
TM02-PZM009	Shallow	11-21	trans-1,2-Dichloroethene	10/1/2001	1	U	100	No
TM02-PZM009	Shallow	11-21	trans-1,3-Dichloropropene	10/1/2001	1	U		No
TM02-PZM009	Shallow	11-21	Trichloroethene	10/1/2001	0.29	J	5	No
TM02-PZM009	Shallow	11-21	Vanadium	10/1/2001	75.4		86	No
TM02-PZM009	Shallow	11-21	Vinyl chloride	10/1/2001	2	U	2	No
TM02-PZM009	Shallow	11-21	Xylenes	10/1/2001	1.9	J	10,000	No
TM02-PZM009	Shallow	11-21	Zinc	10/1/2001	1.5	U	6,000	No
TM02-PZM009	Shallow	11-21	1,1,1-Trichloroethane	12/4/2001	1	U	200	No
TM02-PZM009	Shallow	11-21	1,1,1-Trichloroethane	12/4/2001	1	U	200	No
TM02-PZM009	Shallow	11-21	1,1,2,2-Tetrachloroethane	12/4/2001	1	U	0.076	No
TM02-PZM009	Shallow	11-21	1,1,2,2-Tetrachloroethane	12/4/2001	1	U	0.076	No
TM02-PZM009	Shallow	11-21	1,1,2-Trichloroethane	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	1,1,2-Trichloroethane	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	1,1-Dichloroethane	12/4/2001	1	U	2.7	No
TM02-PZM009	Shallow	11-21	1,1-Dichloroethane	12/4/2001	1	U	2.7	No
TM02-PZM009	Shallow	11-21	1,1-Dichloroethene	12/4/2001	1	U	7	No
TM02-PZM009	Shallow	11-21	1,1-Dichloroethene	12/4/2001	1	U	7	No
TM02-PZM009	Shallow	11-21	1,2,4-Trichlorobenzene	12/4/2001	10	U	70	No
TM02-PZM009	Shallow	11-21	1,2-Dichlorobenzene	12/4/2001	10	U	600	No
TM02-PZM009	Shallow	11-21	1,2-Dichloroethane	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	1,2-Dichloroethane	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	1,2-Dichloropropane	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	1,2-Dichloropropane	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	1,3-Dichlorobenzene	12/4/2001	10	U		No
TM02-PZM009	Shallow	11-21	1,4-Dichlorobenzene	12/4/2001	10	U	75	No
TM02-PZM009	Shallow	11-21	2,2'-Oxybis(1-chloropropane)	12/4/2001	20	U	0.36	No
TM02-PZM009	Shallow	11-21	2,4,5-Trichlorophenol	12/4/2001	10	U	1,200	No
TM02-PZM009	Shallow		2,4,6-Trichlorophenol	12/4/2001	10	U	4	No
TM02-PZM009	Shallow	11-21	2,4-Dichlorophenol	12/4/2001	10	U	46	No
TM02-PZM009	Shallow	11-21	2,4-Dimethylphenol	12/4/2001	79		360	No
TM02-PZM009	Shallow	11-21	2,4-Dinitrophenol	12/4/2001	50	U	39	No
TM02-PZM009	Shallow	11-21	2,4-Dinitrotoluene	12/4/2001	10	U	0.24	No
TM02-PZM009	Shallow	11-21	2,6-Dinitrotoluene	12/4/2001	10	U	0.048	No
TM02-PZM009	Shallow	11-21	2-Butanone (MEK)	12/4/2001	5	U	5,600	No
TM02-PZM009	Shallow	11-21	2-Butanone (MEK)	12/4/2001	5	U	5,600	No
TM02-PZM009	Shallow	11-21	2-Chloronaphthalene	12/4/2001	10	U	750	No
TM02-PZM009	Shallow	11-21	2-Chlorophenol	12/4/2001	10	U	91	No
TM02-PZM009	Shallow	11-21	2-Hexanone	12/4/2001	5	U	38	No
TM02-PZM009	Shallow	11-21	2-Hexanone	12/4/2001	5	U	38	No
TM02-PZM009	Shallow	11-21	2-Methylnaphthalene	12/4/2001	1.3	J	36	No
TM02-PZM009	Shallow	11-21	2-Methylphenol	12/4/2001	4.5	J	930	No
TM02-PZM009	Shallow	11-21	3,3'-Dichlorobenzidine	12/4/2001	50	U	0.12	No
TM02-PZM009	Shallow	11-21	4-Methyl-2-pentanone (MIBK)	12/4/2001	5	U	1,200	No
TM02-PZM009	Shallow	11-21	4-Methyl-2-pentanone (MIBK)	12/4/2001	1.2	J	1,200	No
TM02-PZM009	Shallow	11-21	4-Methylphenol	12/4/2001	77	-	1,900	No
TM02-PZM009	Shallow	11-21	Acenaphthene	12/4/2001	2.2	J	530	No No
TM02-PZM009	Shallow	11-21	Acenaphthylene	12/4/2001	10	U	530	No
TM02-PZM009	Shallow	11-21	Acetone	12/4/2001	10	U	14,000	No
TM02-PZM009	Shallow	11-21	Acetone	12/4/2001	7.1	В	14,000	No

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*** 11	7	Screen	D	Sample	Result	707	PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TT 102 PT 1000	G1 11	(feet bgs)	A	12/4/2001	10	**	_	NY.
TM02-PZM009	Shallow	11-21 11-21	Anthracene	12/4/2001	10	U	1,800	No No
TM02-PZM009 TM02-PZM009	Shallow Shallow	11-21	Antimony Aroclor-1016	12/4/2001 12/4/2001	4.1	U	6	No No
TM02-PZM009 TM02-PZM009	Shallow	11-21	Aroclor-1016 Aroclor-1221	12/4/2001	1	U		No No
TM02-PZM009	Shallow	11-21	Aroclor-1221 Aroclor-1232	12/4/2001	1	U		No
TM02-PZM009	Shallow	11-21	Aroclor-1242	12/4/2001	1	U		No
TM02-PZM009	Shallow	11-21	Aroclor-1248	12/4/2001	1	U		No
TM02-1 ZM009	Shallow	11-21	Aroclor-1254	12/4/2001	1	U		No
TM02-1 ZM009	Shallow	11-21	Aroclor-1260	12/4/2001	1	U		No
TM02-1 ZM009	Shallow	11-21	Arsenic	12/4/2001	3.6	J	10	No
TM02-PZM009	Shallow	11-21	Barium	12/4/2001	92.4	J	2,000	No
TM02-PZM009	Shallow	11-21	Benz[a]anthracene	12/4/2001	10	U	0.03	No
TM02-PZM009	Shallow	11-21	Benzene	12/4/2001	2.8	U	5	No
TM02-PZM009	Shallow	11-21	Benzene	12/4/2001	2.1		5	No
TM02-PZM009	Shallow	11-21	Benzo[a]pyrene	12/4/2001	10	U	0.2	No
TM02-PZM009	Shallow	11-21	Benzo[b]fluoranthene	12/4/2001	10	U	0.25	No
TM02-PZM009	Shallow	11-21	Benzo[g,h,i]perylene	12/4/2001	10	U	0.23	No
TM02-PZM009	Shallow	11-21	Benzo[k]fluoranthene	12/4/2001	10	U	2.5	No
TM02-PZM009	Shallow	11-21	Beryllium	12/4/2001	1.8	В	4	No
TM02-PZM009	Shallow	11-21	bis(2-Chloroethoxy)methane	12/4/2001	10	U	59	No
TM02-PZM009	Shallow	11-21	bis(2-Chloroethyl)ether	12/4/2001	10	U	0.014	No
TM02-PZM009	Shallow	11-21	bis(2-Ethylhexyl)phthalate	12/4/2001	10	U	6	No
TM02-PZM009	Shallow	11-21	Bromoform	12/4/2001	1	U	3.3	No
TM02-PZM009	Shallow	11-21	Bromoform	12/4/2001	1	U	3.3	No
TM02-PZM009	Shallow	11-21	Cadmium	12/4/2001	0.63	U	5	No
TM02-PZM009	Shallow	11-21	Calcium	12/4/2001	281,000			No
TM02-PZM009	Shallow	11-21	Carbon disulfide	12/4/2001	1	U	810	No
TM02-PZM009	Shallow	11-21	Carbon disulfide	12/4/2001	1	U	810	No
TM02-PZM009	Shallow	11-21	Carbon tetrachloride	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	Carbon tetrachloride	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	Chlorobenzene	12/4/2001	1	U	100	No
TM02-PZM009	Shallow	11-21	Chlorobenzene	12/4/2001	1	U	100	No
TM02-PZM009	Shallow	11-21	Chloroethane	12/4/2001	2	UJ	21,000	No
TM02-PZM009	Shallow	11-21	Chloroethane	12/4/2001	2	U	21,000	No
TM02-PZM009	Shallow	11-21	Chloroform	12/4/2001	1	U	0.22	No
TM02-PZM009	Shallow	11-21	Chloroform	12/4/2001	1	U	0.22	No
TM02-PZM009	Shallow	11-21	Chromium	12/4/2001	2.1	В	100	No
TM02-PZM009	Shallow	11-21	Chrysene	12/4/2001	10	U	25	No
TM02-PZM009	Shallow	11-21	cis-1,3-Dichloropropene	12/4/2001	1	U		No
TM02-PZM009	Shallow	11-21	cis-1,3-Dichloropropene	12/4/2001	1	U		No
TM02-PZM009	Shallow	11-21	Cobalt	12/4/2001	0.86	U	6	No
TM02-PZM009	Shallow	11-21	Copper	12/4/2001	0.77	U	1,300	No
TM02-PZM009	Shallow	11-21	Dibenz[a,h]anthracene	12/4/2001	10	U	0.025	No
TM02-PZM009	Shallow	11-21	Diethylphthalate	12/4/2001	10	U	15,000	No
TM02-PZM009	Shallow	11-21	Di-n-butylphthalate	12/4/2001	10	U	900	No
TM02-PZM009	Shallow	11-21	Di-n-octylphthalate	12/4/2001	10	U	200	No
TM02-PZM009	Shallow	11-21	Ethylbenzene	12/4/2001	0.27	J	700	No
TM02-PZM009	Shallow	11-21	Ethylbenzene	12/4/2001	0.26	J	700	No
TM02-PZM009	Shallow	11-21	Fluoranthene	12/4/2001	10	U	800	No
TM02-PZM009	Shallow	11-21	Fluorene	12/4/2001	1.5	J	290	No
TM02-PZM009	Shallow	11-21	Hexachlorobenzene	12/4/2001	10	U	1	No
TM02-PZM009	Shallow	11-21	Hexachlorobutadiene	12/4/2001	10	U	0.14	No
TM02-PZM009	Shallow	11-21	Hexachlorocyclopentadiene	12/4/2001	50	U	50	No
TM02-PZM009	Shallow	11-21	Hexachloroethane	12/4/2001	10	U	0.33	No
TM02-PZM009	Shallow	11-21	Indeno[1,2,3-cd]pyrene	12/4/2001	10	U	0.25	No
TM02-PZM009	Shallow	11-21	Iron	12/4/2001	52.4	L	14,000	No
TM02-PZM009	Shallow	11-21	Isophorone	12/4/2001	10	U	78	No
TM02-PZM009	Shallow	11-21	Lead	12/4/2001	2.2	В	15	No
TM02-PZM009	Shallow	11-21	Magnesium	12/4/2001	15.9	J		No
TM02-PZM009	Shallow	11-21	Manganese	12/4/2001	0.8	В	430	No

		Cancon	Sparrows Point, Maryl					
Well	Zone	Screen Interval	Parameter	Sample	Result	Flag	PAL	PAL
vv en	Zone	(feet bgs)	rarameter	Date	(ug/L)	riag	(ug/L)	Exceedance?
TM02-PZM009	Shallow	11-21	Mercury	12/4/2001	0.054	UL	2	No
TM02-PZM009	Shallow	11-21	Methylene chloride	12/4/2001	2	U	5	No
TM02-PZM009	Shallow	11-21	Methylene chloride	12/4/2001	2	U	5	No
TM02-PZM009	Shallow	11-21	Naphthalene	12/4/2001	20		0.17	Yes
TM02-PZM009	Shallow	11-21	Nickel	12/4/2001	13.5	J	390	No
TM02-PZM009	Shallow	11-21	Nitrobenzene	12/4/2001	10	U	0.14	No
TM02-PZM009	Shallow	11-21	Pentachlorophenol	12/4/2001	50	U	1	No
TM02-PZM009	Shallow	11-21	Phenanthrene	12/4/2001	3.8	J	-	No
TM02-PZM009	Shallow	11-21	Phenol	12/4/2001	10	U	5,800	No
TM02-PZM009	Shallow	11-21	Potassium	12/4/2001	81.800		2,000	No
TM02-PZM009	Shallow	11-21	Pyrene	12/4/2001	10	U	120	No
TM02-PZM009	Shallow	11-21	Selenium	12/4/2001	5.5		50	No
TM02-PZM009	Shallow	11-21	Silver	12/4/2001	0.75	U	94	No
TM02-PZM009	Shallow	11-21	Sodium	12/4/2001	236,000		7.	No
TM02-PZM009	Shallow	11-21	Tetrachloroethene	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	Tetrachloroethene	12/4/2001	1	U	5	No
TM02-PZM009	Shallow	11-21	Thallium	12/4/2001	5.7	U	2	No
TM02-PZM009	Shallow	11-21	Toluene	12/4/2001	2.8		1,000	No
TM02-PZM009	Shallow	11-21	Toluene	12/4/2001	2.4		1,000	No
TM02-PZM009	Shallow	11-21	trans-1.2-Dichloroethene	12/4/2001	1	U	100	No
TM02-PZM009	Shallow	11-21	trans-1,2-Dichloroethene	12/4/2001	1	U	100	No
TM02-PZM009	Shallow	11-21	trans-1,3-Dichloropropene	12/4/2001	1	U		No
TM02-PZM009	Shallow	11-21	trans-1,3-Dichloropropene	12/4/2001	1	U		No
TM02-PZM009	Shallow	11-21	Trichloroethene	12/4/2001	0.36	J	5	No
TM02-PZM009	Shallow	11-21	Trichloroethene	12/4/2001	0.29	J	5	No
TM02-PZM009	Shallow	11-21	Vanadium	12/4/2001	75.4		86	No
TM02-PZM009	Shallow	11-21	Vinyl chloride	12/4/2001	2	U	2	No
TM02-PZM009	Shallow	11-21	Vinyl chloride	12/4/2001	2	U	2	No
TM02-PZM009	Shallow	11-21	Xylenes	12/4/2001	2	J	10,000	No
TM02-PZM009	Shallow	11-21	Xylenes	12/4/2001	1.9	J	10,000	No
TM02-PZM009	Shallow	11-21	Zinc	12/4/2001	1.5	U	6,000	No
TM02-PZM009 DUP	Shallow	11-21	1,1,1-Trichloroethane	10/1/2001	1	U	200	No
TM02-PZM009 DUP	Shallow	11-21	1,1,2,2-Tetrachloroethane	10/1/2001	1	U	0.076	No
TM02-PZM009 DUP	Shallow	11-21	1,1,2-Trichloroethane	10/1/2001	1	U	5	No
TM02-PZM009 DUP	Shallow	11-21	1,1-Dichloroethane	10/1/2001	1	U	2.7	No
TM02-PZM009 DUP	Shallow	11-21	1,1-Dichloroethene	10/1/2001	1	U	7	No
TM02-PZM009 DUP	Shallow	11-21	1,2-Dichloroethane	10/1/2001	1	U	5	No
TM02-PZM009 DUP	Shallow	11-21	1,2-Dichloropropane	10/1/2001	1	U	5	No
TM02-PZM009 DUP	Shallow	11-21	2-Butanone (MEK)	10/1/2001	5	U	5,600	No
TM02-PZM009 DUP	Shallow	11-21	2-Hexanone	10/1/2001	5	U	38	No
TM02-PZM009 DUP	Shallow	11-21	4-Methyl-2-pentanone (MIBK)	10/1/2001	1.2	J	1,200	No
TM02-PZM009 DUP	Shallow	11-21	Acetone	10/1/2001	10	U	14,000	No
TM02-PZM009 DUP	Shallow	11-21	Benzene	10/1/2001	2.8		5	No
TM02-PZM009 DUP	Shallow	11-21	Bromoform	10/1/2001	1	U	3.3	No
TM02-PZM009 DUP	Shallow	11-21	Carbon disulfide	10/1/2001	1	U	810	No
TM02-PZM009 DUP	Shallow	11-21	Carbon tetrachloride	10/1/2001	1	U	5	No
TM02-PZM009 DUP	Shallow	11-21	Chlorobenzene	10/1/2001	1	U	100	No
TM02-PZM009 DUP	Shallow	11-21	Chloroethane	10/1/2001	2	UJ	21,000	No
TM02-PZM009 DUP	Shallow	11-21	Chloroform	10/1/2001	1	U	0.22	No
TM02-PZM009 DUP	Shallow	11-21	cis-1,3-Dichloropropene	10/1/2001	1	U		No
TM02-PZM009 DUP	Shallow	11-21	Ethylbenzene	10/1/2001	0.27	J	700	No
TM02-PZM009 DUP	Shallow	11-21	Methylene chloride	10/1/2001	2	U	5	No
TM02-PZM009 DUP	Shallow	11-21	Tetrachloroethene	10/1/2001	1	U	5	No
TM02-PZM009 DUP	Shallow	11-21	Toluene	10/1/2001	2.8		1,000	No
TM02-PZM009 DUP	Shallow	11-21	trans-1,2-Dichloroethene	10/1/2001	1	U	100	No
TM02-PZM009 DUP	Shallow	11-21	trans-1,3-Dichloropropene	10/1/2001	1	U		No
TM02-PZM009 DUP	Shallow	11-21	Trichloroethene	10/1/2001	0.36	J	5	No
TM02-PZM009 DUP	Shallow	11-21	Vinyl chloride	10/1/2001	2	U	2	No
TM02-PZM009 DUP	Shallow	11-21	Xylenes	10/1/2001	2	J	10,000	No
TM02-PZM028	Intermediate	31-41	Iron	10/1/2000	100	U	14,000	No

		Screen						
Well	Zone	Interval	Parameter	Sample	Result	Flag	PAL	PAL
,,,,,,,,	Lone	(feet bgs)	1 W.	Date	(ug/L)	19	(ug/L)	Exceedance?
TM02-PZM028	Intermediate	31-41	Calcium	12/19/2000	210,000			No
TM02-PZM028	Intermediate	31-41	Iron	12/19/2000	100	U	14,000	No
TM02-PZM028	Intermediate	31-41	Magnesium	12/19/2000	100	U	,	No
TM02-PZM028	Intermediate	31-41	Manganese	12/19/2000	10	U	430	No
TM02-PZM028	Intermediate	31-41	Potassium	12/19/2000	79,000			No
TM02-PZM028	Intermediate	31-41	Sodium	12/19/2000	220,000			No
TM02-PZM028	Intermediate	31-41	1,1,1-Trichloroethane	10/1/2001	1	U	200	No
TM02-PZM028	Intermediate	31-41	1,1,2,2-Tetrachloroethane	10/1/2001	1	U	0.076	No
TM02-PZM028	Intermediate	31-41	1,1,2-Trichloroethane	10/1/2001	1	U	5	No
TM02-PZM028	Intermediate	31-41	1,1-Dichloroethane	10/1/2001	1	U	2.7	No
TM02-PZM028	Intermediate	31-41	1,1-Dichloroethene	10/1/2001	1	U	7	No
TM02-PZM028	Intermediate	31-41	1,2,4-Trichlorobenzene	10/1/2001	10	U	70	No
TM02-PZM028	Intermediate	31-41	1,2-Dichlorobenzene	10/1/2001	10	U	600	No
TM02-PZM028	Intermediate	31-41	1,2-Dichloroethane	10/1/2001	1	U	5	No
TM02-PZM028	Intermediate	31-41	1,2-Dichloropropane	10/1/2001	1	U	5	No
TM02-PZM028	Intermediate	31-41	1,3-Dichlorobenzene	10/1/2001	10	U		No
TM02-PZM028	Intermediate	31-41	1,4-Dichlorobenzene	10/1/2001	10	U	75	No
TM02-PZM028	Intermediate	31-41	2,4,5-Trichlorophenol	10/1/2001	10	U	1,200	No
TM02-PZM028	Intermediate	31-41	2,4,6-Trichlorophenol	10/1/2001	10	U	4	No
TM02-PZM028	Intermediate	31-41	2,4-Dichlorophenol	10/1/2001	10	U	46	No
TM02-PZM028	Intermediate	31-41	2,4-Dimethylphenol	10/1/2001	180		360	No
TM02-PZM028	Intermediate	31-41	2,4-Dinitrophenol	10/1/2001	50	U	39	No
TM02-PZM028	Intermediate	31-41	2,4-Dinitrotoluene	10/1/2001	10	U	0.24	No
TM02-PZM028	Intermediate	31-41	2,6-Dinitrotoluene	10/1/2001	10	U	0.048	No
TM02-PZM028	Intermediate	31-41	2-Butanone (MEK)	10/1/2001	5	U	5,600	No
TM02-PZM028	Intermediate	31-41	2-Chloronaphthalene	10/1/2001	10	U	750	No
TM02-PZM028	Intermediate	31-41	2-Chlorophenol	10/1/2001	10	U	91	No
TM02-PZM028	Intermediate	31-41	2-Hexanone	10/1/2001	5	U	38	No
TM02-PZM028	Intermediate	31-41	2-Methylnaphthalene	10/1/2001	11		36	No
TM02-PZM028	Intermediate	31-41	2-Methylphenol	10/1/2001	5.2	J	930	No
TM02-PZM028	Intermediate	31-41	3,3'-Dichlorobenzidine	10/1/2001	50	U	0.12	No
TM02-PZM028	Intermediate	31-41	4-Methyl-2-pentanone (MIBK)	10/1/2001	5	U	1,200	No
TM02-PZM028	Intermediate	31-41	Acenaphthene	10/1/2001	2.8	J	530	No
TM02-PZM028	Intermediate	31-41	Acenaphthylene	10/1/2001	1.3	J	530	No
TM02-PZM028	Intermediate	31-41	Acetone	10/1/2001	5.3	J	14,000	No
TM02-PZM028	Intermediate	31-41	Anthracene	10/1/2001	1.3	J	1,800	No
TM02-PZM028	Intermediate	31-41	Antimony	10/1/2001	4.1	U	6	No
TM02-PZM028	Intermediate	31-41	Arsenic	10/1/2001	3.2	J	10	No
TM02-PZM028	Intermediate		Barium	10/1/2001	117	J	2,000	No
TM02-PZM028	Intermediate	31-41	Benz[a]anthracene	10/1/2001	10	U	0.03	No
TM02-PZM028	Intermediate	31-41	Benzene	10/1/2001	6.1	***	5	Yes
TM02-PZM028	Intermediate	31-41	Benzo[a]pyrene	10/1/2001	10	UJ	0.2	No
TM02-PZM028	Intermediate	31-41	Benzo[b]fluoranthene	10/1/2001	10	UJ	0.25	No
TM02-PZM028	Intermediate	31-41	Benzo[g,h,i]perylene	10/1/2001	10	UJ	2.5	No
TM02-PZM028	Intermediate	31-41	Benzo[k]fluoranthene	10/1/2001	10	UJ	2.5	No No
TM02-PZM028	Intermediate	31-41	Beryllium bis(2-Chloroethoxy)methane	10/1/2001	2.2	U	4	No
TM02-PZM028	Intermediate	31-41	bis(2-Chloroethyl)ether	10/1/2001	10	U	59 0.014	No
TM02-PZM028	Intermediate Intermediate	31-41 31-41	• • • • • • • • • • • • • • • • • • • •	10/1/2001	10			No No
TM02-PZM028	Intermediate		bis(2-Ethylhexyl)phthalate	10/1/2001	10	U	6	
TM02-PZM028 TM02-PZM028		31-41	Bromoform		1 0.62	+	3.3	No
TM02-PZM028	Intermediate Intermediate	31-41 31-41	Cadmium Carbon disulfide	10/1/2001 10/1/2001	0.63	U	810	No No
TM02-PZM028	Intermediate	31-41	Carbon tetrachloride	10/1/2001	1	U	5	No
TM02-PZM028 TM02-PZM028	Intermediate	31-41	Chlorobenzene	10/1/2001	1	U	100	No
TM02-PZM028 TM02-PZM028	Intermediate	31-41		10/1/2001	2	U	21,000	No
TM02-PZM028 TM02-PZM028			Chloroform		1	U	0.22	
TM02-PZM028 TM02-PZM028	Intermediate	31-41	Chloroform Chromium	10/1/2001		U		No No
	Intermediate Intermediate	31-41		10/1/2001	1.1	U	100 25	No No
TM02-PZM028 TM02-PZM028	Intermediate	31-41 31-41	Chrysene cis-1,3-Dichloropropene	10/1/2001 10/1/2001	10	U	23	No No
TM02-PZM028 TM02-PZM028	_	31-41	* *	10/1/2001	0.86	U	6	
1 IVIUZ-PZIVIUZ8	Intermediate	31-41	Cobalt	10/1/2001	0.80	U	6	No

Parameter			Screen						
Disc Disc Disc Disc Disc Disc Disc	Well	Zone		Parameter	Sample	Result	Flag	PAL	PAL
TMOS_PEMMOS Intermediate 31-41 Cyque 101/2001 7, 0.1 1,300 No No 1300_PEMMOS Intermediate 31-41 Dibertal al. juntariance 101/2001 10 UJ 0.025 No 1300_PEMMOS Intermediate 31-41 Dibertal al. juntariance 101/2001 10 UJ 0.025 No 1300_PEMMOS Intermediate 31-41 Dibertal al. juntariance 101/2001 10 UJ 0.000 No No TMOS_PEMMOS Intermediate 31-41 Dibertal al. juntariance 101/2001 10 UJ 0.000 No No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.000 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.000 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 0.56 J. 7000 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 0.56 J. 7000 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 0.56 J. 7000 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 0.56 J. 7000 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.14 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.14 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-busylphthalare 101/2001 10 UJ 0.33 No TMOS_PEMMOS Intermediate 31-41 Dis-bus	,, 022	Lone		<u> </u>	Date	(ug/L)		(ug/L)	Exceedance?
TAIDQ-FZM028 Intermediate 31-41 Dishuphal hallmiracen 101/2001 10	TM02-PZM028	Intermediate		Copper	10/1/2001	7	U	1.300	No
IMBQ-FEMORS		+		11		7,600			
1700.2-F2M0128 Intermediate 314-11 Dis-n-barylpithalate 101/2001 10 U 200 No No 1700.2-F2M0128 Intermediate 314-11 Dis-n-barylpithalate 101/2001 10. U 200 No No 1700.2-F2M0128 Intermediate 314-11 Putorathere 101/2001 1.5 J 800 No No 1700.2-F2M0128 Intermediate 314-11 Fluorene 101/2001 1.5 J 800 No No 1700.2-F2M0128 Intermediate 314-11 Hexachitoroberzene 101/2001 1.0 U 0.14 No 1700.2-F2M0128 Intermediate 314-11 Hexachitoroberzene 101/2001 10 U 0.14 No 1700.2-F2M0128 Intermediate 314-11 Hexachitoroberzene 101/2001 10 U 0.14 No 1700.2-F2M0128 Intermediate 314-11 Hexachitoroberzene 101/2001 10 U 0.14 No 1700.2-F2M0128 Intermediate 314-11 Hexachitoroberzene 101/2001 10 U 0.33 No 1700.2-F2M0128 Intermediate 314-11 Hexachitoroberzene 101/2001 10 U 0.33 No 1700.2-F2M0128 Intermediate 314-11 Metaphoroare 101/2001 10 U 0.0 2.5 No 1700.2-F2M0128 Intermediate 314-11 Land 101/2001 10 U 0.78 No 1700.2-F2M0128 Intermediate 314-11 Metaphoroare 101/2001 1.0 U 5 No 1700.2-F2M0128 Intermediate 314-11 Metaphoroare 101/2001 1.0 U 5 No 1700.2-F2M0128 Intermediate 314-11 Metaphoroare 101/2001 1.0 U 5 No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U 1.0 No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U 1.0 No No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U 1.0 No No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U U 1.0 No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U U 1.0 No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U U 1.0 No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0 U U 0.0 No 1700.2-F2M0128 Intermediate 314-11 Nickel 101/2001 1.0		Intermediate					UJ	0.025	
Index:PAMO28	TM02-PZM028	Intermediate	31-41	Diethylphthalate	10/1/2001	10	U	15,000	No
TM02-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 15 J 700 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 3.6 J 290 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 10 U 1 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 10 U 0.14 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 10 U 0.14 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 10 U 0.14 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 10 U 0.34 No 17002-PZA/028 Intermediate 31-41 Fibroruntence 101/2001 10 U 0.35 No 17002-PZA/028 Intermediate 31-41 Hoden/01/22-0-dipyrenc 101/2001 10 U 0.35 No 17002-PZA/028 Intermediate 31-41 Hoden/01/22-0-dipyrenc 101/2001 10 U 0.25 No 17002-PZA/028 Intermediate 31-41 Mercury 101/2001 10 U 0.25 No 17002-PZA/028 Intermediate 31-41 Mercury 101/2001 10 U 0.25 No 17002-PZA/028 Intermediate 31-41 Mercury 101/2001 10 U 0.25 No 17002-PZA/028 Intermediate 31-41 Mercury 101/2001 10 U 0.55 No 17002-PZA/028 Intermediate 31-41 Mercury 101/2001 10 U 0.55 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 10 U 0.14 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 10 U 0.14 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 50 U 1 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 50 U 1 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 52 U 50 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 52 U 50 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 52 U 50 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 52 U 50 No 17002-PZA/028 Intermediate 31-41 Pentachlorophenol 101/2001 10 U 50 No 17002-PZA/028 Intermediate	TM02-PZM028	Intermediate		v 1		10	U	900	No
TM02-PZM028 Intermediate 31-41 Ethylenozene 101/12001 15 J 800 No No TM02-PZM028 Intermediate 31-41 Fluorente 101/12001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 101/12001 10 U 1 No TM02-PZM028 Intermediate 31-41 Hexachtorobrundene 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Hexachtorocytopentadiene 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Hexachtorocytopentadiene 101/12001 10 U 0.33 No TM02-PZM028 Intermediate 31-41 Hexachtorocytopentadiene 101/12001 10 U 0.33 No TM02-PZM028 Intermediate 31-41 Intend 1.23-cdlpyrene 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Intend 1.23-cdlpyrene 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Mercury 101/12001 10 U 0.14 No TM02-PZM028 Interme	TM02-PZM028	Intermediate	31-41	* 1	10/1/2001	10	UJ	200	No
TMO2-PZM028 Intermediate 31-41 Havachiorobenzene 101/2001 10 U 0.14 No	TM02-PZM028	Intermediate	31-41	* *	10/1/2001	0.56	J	700	No
Info]=PZAMO28 Intermediate 31-44 Hexachbrorebargene 101/12001 10 U 1, 14 No 100/12002 Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 0.14 No 100/12002 Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 0.33 No Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 0.35 No Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 0.25 No Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 0.25 No Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 78 No Intermediate 31-44 Hexachbrorey-clopentatiene 101/12001 10 U 78 No Intermediate 31-44 Memory 101/12001 10 U 78 No Intermediate 31-44 Memory 101/12001 10 U 78 No Intermediate 31-44 Memory 101/12001 0.054 U 2 No Intermediate 31-44 Memory 101/12001 0.054 U 2 No Intermediate 31-44 Memory 101/12001 150 U 5 No Intermediate 31-44 No Intermed	TM02-PZM028	Intermediate	31-41	Fluoranthene	10/1/2001	1.5	J	800	No
TM02-PZM028 Intermediate 31-41 Hexachbroroy-clopentatiene 101/2001 50 U 50 No	TM02-PZM028	Intermediate	31-41	Fluorene	10/1/2001	3.6	J	290	No
TM02-PZM028 Intermediate 31-41 Hexachbrosyclopenadiene 101/2001 50 U 50 No TM02-PZM028 Intermediate 31-41 Hexachbrosethane 101/2001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Indenol 1.22-clopyene 101/2001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Isophorone 101/2001 10 U 78 No TM02-PZM028 Intermediate 31-41 Isophorone 101/2001 1.8 U 15 No TM02-PZM028 Intermediate 31-41 Mercury 101/2001 1.8 U 15 No TM02-PZM028 Intermediate 31-41 Mercury 101/2001 1.8 U 1.5 No TM02-PZM028 Intermediate 31-41 Mercury 101/2001 1.9 U 5 No TM02-PZM028 Intermediate 31-41 Nirobeorene 101/2001 150 U 1.7 Yes TM02-PZM028 Intermediate 31-41 Nirobeorene 101/2001 150 U 0.14 No TM02-PZM028 Intermediate 31-41 Nirobeorene 101/2001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Penachbroophenol 101/2001 50 U 1 No TM02-PZM028 Intermediate 31-41 Penachbroophenol 101/2001 50 U 1 No TM02-PZM028 Intermediate 31-41 Phenol 101/2001 7.8 J No TM02-PZM028 Intermediate 31-41 Phenol 101/2001 7.8 J No TM02-PZM028 Intermediate 31-41 Phenol 101/2001 7.8 J No No TM02-PZM028 Intermediate 31-41 Phenol 101/2001 7.8 J No No TM02-PZM028 Intermediate 31-41 Shehiman 101/2001 10 U 120 No TM02-PZM028 Intermediate 31-41 Shehiman 101/2001 10 U 10 No TM02-PZM028 Intermediate 31-41 Thus Thus TM02-PZM028 Intermediate 31-41 Thus TM02-P	TM02-PZM028	Intermediate	31-41	Hexachlorobenzene	10/1/2001	10	U	1	No
TMO2-PZM028 Intermediate 31-41 Hexachlorosthane 101/2001 10 U 0.33 No	TM02-PZM028	Intermediate	31-41	Hexachlorobutadiene	10/1/2001	10	U	0.14	No
TM02-PZM028 Intermediate 31-41 Indeport (1.2.3-cd]pyrene 10/1/2001 10 U 0.25 No TM02-PZM028 Intermediate 31-41 Isophorone 10/1/2001 1.8 U 7.8 No TM02-PZM028 Intermediate 31-41 Mercury 10/1/2001 0.054 U 2 No TM02-PZM028 Intermediate 31-41 Mertylene chloride 10/1/2001 5 No TM02-PZM028 Intermediate 31-41 Naphthalene 10/1/2001 150 0.17 Yes TM02-PZM028 Intermediate 31-41 Nickel 10/1/2001 140 0.17 Yes TM02-PZM028 Intermediate 31-41 Nickel 10/1/2001 140 U 1.4 No TM02-PZM028 Intermediate 31-41 Picanathrene 10/1/2001 10 U 1.4 No TM02-PZM028 Intermediate 31-41 Picanathrene 10/1/2001 7.8 J No	TM02-PZM028	Intermediate	31-41	Hexachlorocyclopentadiene	10/1/2001	50	U	50	No
TM02-PZM028 Intermediate 31-41 Lead 101/2001 10 U 78 No TM02-PZM028 Intermediate 31-41 Lead 101/2001 1.8 U 15 No TM02-PZM028 Intermediate 31-41 Mercury 101/2001 0.054 U 2 No TM02-PZM028 Intermediate 31-41 Methylene chloride 101/2001 2 U 5 No TM02-PZM028 Intermediate 31-41 Nickel 101/2001 15 U 17 Ves TM02-PZM028 Intermediate 31-41 Nickel 101/2001 15 U 0.17 Ves TM02-PZM028 Intermediate 31-41 Nickel 101/2001 14.6 J 390 No TM02-PZM028 Intermediate 31-41 Nickel 101/2001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Penachlorophenol 101/2001 50 U 1 No TM02-PZM028 Intermediate 31-41 Penachlorophenol 101/2001 7.8 J No No TM02-PZM028 Intermediate 31-41 Penachlorophenol 101/2001 8 J 5.800 No TM02-PZM028 Intermediate 31-41 Penachlorophenol 101/2001 8 J 5.800 No TM02-PZM028 Intermediate 31-41 Pyrene 101/2001 10 U 120 No TM02-PZM028 Intermediate 31-41 Silver 101/2001 3.2 U 50 No No TM02-PZM028 Intermediate 31-41 Silver 101/2001 0.75 U 94 No TM02-PZM028 Intermediate 31-41 Terrachlorosthene 101/2001 0.75 U 94 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 5.77 U 2 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 5.77 U 2 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 5.77 U 2 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 Thallium 101/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 Thilliurosthane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate	TM02-PZM028	Intermediate	31-41	Hexachloroethane	10/1/2001	10	U	0.33	No
TMO2-PZMO28 Intermediate 31-41 Icad 101/2001 1.8 U 15 No TMO2-PZMO28 Intermediate 31-41 Mercury 101/2001 0.054 U 2 No TM02-PZM028 Intermediate 31-41 Methylene chloride 101/2001 1.6 0.17 Yes TM02-PZM028 Intermediate 31-41 Naphthalene 101/2001 14.6 J 30 No TM02-PZM028 Intermediate 31-41 Nickel 101/2001 14.6 J 30 No TM02-PZM028 Intermediate 31-41 Pentachlorophenol 101/2001 10 U 1.4 No TM02-PZM028 Intermediate 31-41 Phenol 101/2001 7.8 J No TM02-PZM028 Intermediate 31-41 Phenol 101/2001 8 J 5.800 No TM02-PZM028 Intermediate 31-41 Sleven 101/2001 3.2 U 9.0	TM02-PZM028	Intermediate	31-41	Indeno[1,2,3-cd]pyrene	10/1/2001	10	UJ	0.25	No
TMO2-PZMO28 Intermediate 31-41 Mercury 101/2001 2.0.54 U 2 No TMO2-PZMO28 Intermediate 31-41 Methylene chloride 101/2001 12 U 5 No TMO2-PZMO28 Intermediate 31-41 Nickel 101/2001 15 0.17 Yes TMO2-PZMO28 Intermediate 31-41 Nickel 101/2001 10 0.14 No TMO2-PZMO28 Intermediate 31-41 Nickel 101/2001 50 U 1 No TMO2-PZMO28 Intermediate 31-41 Phenathrene 101/2001 7.8 J No TMO2-PZMO28 Intermediate 31-41 Phenol 101/2001 7.8 J No TMO2-PZMO28 Intermediate 31-41 Selemium 101/2001 3.2 U 50 No TMO2-PZMO28 Intermediate 31-41 Frence 101/2001 3.2 U 50 No T	TM02-PZM028	Intermediate	31-41	Isophorone	10/1/2001	10	U	78	No
Intermediate 31-41 Methylene chloride 101/12001 2	TM02-PZM028	Intermediate	31-41	Lead	10/1/2001	1.8	U	15	No
Intermediate 31-41 Naphthalene 101/2001 150 0.17 Yes	TM02-PZM028	Intermediate	31-41	Mercury	10/1/2001	0.054	U	2	No
TM02-PZM028 Intermediate 31-41 Nickel 101/2001 14.6 J 390 No	TM02-PZM028	Intermediate		Methylene chloride	10/1/2001	2	U	5	No
TM02-PZM028 Intermediate 31-41 Nitrobenzene 10/1/2001 10 U 0.14 No TM02-PZM028 Intermediate 31-41 Phenathiorophenol 10/1/2001 50 U 1 No TM02-PZM028 Intermediate 31-41 Phenathrene 10/1/2001 8 J 5,800 No TM02-PZM028 Intermediate 31-41 Phenol 10/1/2001 8 J 5,800 No TM02-PZM028 Intermediate 31-41 Pyene 10/1/2001 10 U 120 No TM02-PZM028 Intermediate 31-41 Selenium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Selenium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Tetrachloroethene 10/1/2001 0.75 U 94 No TM02-PZM028 Intermediate 31-41 Tetrachloroethene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 100 No TM02-PZM028 Intermediate 31-41 trans-1,2-Dichloroethene 10/1/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 trans-1,2-Dichloropropene 10/1/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 trans-1,3-Dichloropropene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 trans-1,3-Dichloropropene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 trans-1,3-Dichloropropene 10/1/2001 24-9 J 86 No TM02-PZM028 Intermediate 31-41 trichloroethene 10/1/2001 24-9 J 86 No TM02-PZM028 Intermediate 31-41 trichloroethene 10/1/2001 24-9 J 86 No TM02-PZM028 Intermediate 31-41 trichloroethene 10/1/2001 2 U 20 No TM02-PZM028 Intermediate 31-41 trichloroethane 11/28/2001 U 0.006 No TM02-PZM028 Intermediate 31-41 trichloroethane 11/28/2001 U 0.006 No TM02-PZM028 Intermediate 31-41 trichloroethane 11/28/2001 U 0.006 No TM02-PZM028 Intermediate 31-41 trichloroethane 11/28/2001 U 0	TM02-PZM028	Intermediate	31-41	Naphthalene	10/1/2001	150		0.17	Yes
TM02-PZM028 Intermediate 31-41 Pentachlorophenol 10/1/2001 50 U 1 No TM02-PZM028 Intermediate 31-41 Phenanthrene 10/1/2001 7.8 J S,800 No TM02-PZM028 Intermediate 31-41 Phenol 10/1/2001 10 U 120 No TM02-PZM028 Intermediate 31-41 Selenium 10/1/2001 10 U 120 No TM02-PZM028 Intermediate 31-41 Selenium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Selenium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Trachlorocthene 10/1/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Trachlorocthene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.2 U 1000 No TM02-PZM028 Intermediate 31-41 Trachlorocthene 10/1/2001 5.2 U 1000 No TM02-PZM028 Intermediate 31-41 Trachlorocthene 10/1/2001 1 U INO No TM02-PZM028 Intermediate 31-41 Trachlorocthene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 Vanadium 10/1/2001 1 U No No TM02-PZM028 Intermediate 31-41 Vanadium 10/1/2001 24.9 J 86 No TM02-PZM028 Intermediate 31-41 Vanadium 10/1/2001 24.9 J 86 No TM02-PZM028 Intermediate 31-41 Vinyl chloride 10/1/2001 9.8 10,000 No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 9.8 10,000 No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 5.2 U 2 No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 5.2 U 2 No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 5.2 U 2 No No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 5.2 U 2 No No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 5.2 U 2 No No TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 5.7 U 200 No TM02-PZM028 Intermediate 31-41 Zinchlorocthane 11/28/2001 U 0.076 No TM02-PZM028	TM02-PZM028	Intermediate	31-41	Nickel	10/1/2001	14.6	J	390	No
TM02-PZM028 Intermediate 31-41 Phenanthrene 10/1/2001 7.8 J 5.80 No TM02-PZM028 Intermediate 31-41 Pyrene 10/1/2001 8 J 5.80 No TM02-PZM028 Intermediate 31-41 Steinium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Steinium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Steinium 10/1/2001 3.2 U 50 No TM02-PZM028 Intermediate 31-41 Tetrachloroethene 10/1/2001 0.75 U 94 No TM02-PZM028 Intermediate 31-41 Tetrachloroethene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Trachloroethene 10/1/2001 5.2 1,000 No TM02-PZM028 Intermediate 31-41 Trachloroethene 10/1/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Typichloroethene 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Typichloroethene 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Typichloroethene 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Typichloroethene 11/28/2001 U U 200 No TM02-PZM028 Intermediate 31-41 Typichloroethane 11/28/2001 U U 0.076 No TM02-PZM028 Intermediate 31-41 Typichloroethane 11/28/2001 U U 0.076 No TM02-PZM028 Intermediate 31-41 Typichloroethane 11/28/2001 U U Typich	TM02-PZM028	Intermediate	31-41	Nitrobenzene	10/1/2001	10	U	0.14	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Pentachlorophenol	10/1/2001	50	U	1	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Phenanthrene	10/1/2001	7.8	J		No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Phenol	10/1/2001	8	J	5,800	No
TM02-PZM028 Intermediate 31-41 Silver 10/1/2001 0.75 U 94 No TM02-PZM028 Intermediate 31-41 Tetrachloroethene 10/1/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.2 1,000 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 24-9 J 86 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 24-9 J 86 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 25 U 2 No TM02-PZM028 Intermediate 31-41 Trichloroethene 10/1/2001 29 U 2 No TM02-PZM028 Intermediate 31-41 Trichloroethane 10/1/2001 9.8 10,000 No TM02-PZM028 Intermediate 31-41 Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 T.1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 T.1,2-Tetrachloroethane TM02-PZM028 Intermediate 31-41 T.1,2-Tetrachloroethane TM02-PZM028 Intermediate 31-41 T.1,2-Trichloroethane TM02-PZM028 Intermediate 31-41 T.2,2-Tetrachloroethane TM02-PZM028	TM02-PZM028	Intermediate	31-41	Pyrene	10/1/2001	10	U	120	No
TM02-PZM028 Intermediate 31-41 Tetrachloroethene 10/1/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Thallium 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 Toluene 10/1/2001 5.7 U 2 No TM02-PZM028 Intermediate 31-41 trans-1,2-Dichloroethene 10/1/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 trans-1,3-Dichloropropene 10/1/2001 1 U No TM02-PZM028 Intermediate 31-41 trans-1,3-Dichloropropene 10/1/2001 1 U No No TM02-PZM028 Intermediate 31-41 Vanadium 10/1/2001 1 U S No TM02-PZM028 Intermediate 31-41 Vanadium 10/1/2001 24.9 J 86 No TM02-PZM028 Intermediate 31-41 Vinyl chloride 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Vinyl chloride 10/1/2001 2 U 2 No TM02-PZM028 Intermediate 31-41 Xylenes 10/1/2001 6.2 U 6,000 No TM02-PZM028 Intermediate 31-41 Xylenes 10/1/2001 6.2 U 6,000 No TM02-PZM028 Intermediate 31-41 1,1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,2-Tetrachloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethene 11/28/2001 1 U 0.076 No TM	TM02-PZM028	Intermediate		Selenium	10/1/2001	3.2	U	50	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Silver	10/1/2001	0.75	U	94	No
TM02-PZM028		Intermediate	31-41	Tetrachloroethene	10/1/2001	1	U		No
TM02-PZM028	TM02-PZM028	Intermediate		Thallium	10/1/2001	5.7	U		
TM02-PZM028	TM02-PZM028	Intermediate		Toluene	10/1/2001	5.2		1,000	No
TM02-PZM028	TM02-PZM028	Intermediate		trans-1,2-Dichloroethene	10/1/2001	1		100	No
TM02-PZM028	TM02-PZM028			, <u>1</u> 1	10/1/2001	1	U		
TM02-PZM028									
TM02-PZM028 Intermediate 31-41 Xylenes 10/1/2001 9.8 10,000 No TM02-PZM028 Intermediate 31-41 1,1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-A-Trichlorobenzene 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-Trichlorobenzene 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene									
TM02-PZM028 Intermediate 31-41 Zinc 10/1/2001 6.2 U 6,000 No TM02-PZM028 Intermediate 31-41 1,1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,1-Trichloroethane 11/28/2001 1 U 200 No TM02-PZM028 Intermediate 31-41 1,1,2,2-Tetrachloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31				-			U	_	
TM02-PZM028		+		•	+				
TM02-PZM028		_							
TM02-PZM028 Intermediate 31-41 1,1,2,2-Tetrachloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-Trichlorobenzene 11/28/2001 10 U 70 No TM02-PZM028 Intermediate									
TM02-PZM028 Intermediate 31-41 1,1,2,2-Tetrachloroethane 11/28/2001 1 U 0.076 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethene 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2-4-Trichlorobenzene 11/28/2001 10 U 70 No TM02-PZM028 Intermediate 3									
TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1,2-Trichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 2.7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,1-Dichloroethane 11/28/2001 1 U 7 No TM02-PZM028 Intermediate 31-41 1,2,4-Trichlorobenzene 11/28/2001 10 U 70 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 10 U 600 No TM02-PZM028 Intermediate 31-41 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 10 U 600 No TM02-PZM028 Intermediate 31-41 1,2-Dichlorobenzene 11/28/2001 10 U 600 No TM02-PZM028 Intermediate 31-41 1,2-Dichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,2-Dichloroethane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,2-Dichloropropane 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,3-Dichlorobenzene 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 1,3-Dichlorobenzene 11/28/2001 10 U No TM02-PZM028 Intermediate 31-41 1,4-Dichlorobenzene 11/28/2001 10 U 75 No TM02-PZM028 Intermediate 31-41 1,4-Dichl		+							
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TM02-PZM028 Intermediate 31-41 1,4-Dichlorobenzene 11/28/2001 10 U 75 No TM02-PZM028 Intermediate 31-41 1,4-Dichlorobenzene 11/28/2001 10 U 75 No				·			+		
TM02-PZM028 Intermediate 31-41 1,4-Dichlorobenzene 11/28/2001 10 U 75 No		_					_	75	
TTM07 DZM078 Intermediate 31.41 2.21 Overbio(1.abloropropage) 11/20/2001 20 IT 0.22 M-	TM02-PZM028	Intermediate		2,2'-Oxybis(1-chloropropane)	11/28/2001	20	U	0.36	No No

		Screen		G 1	D 1/		DAT	DAT
Well	Zone	Interval	Parameter	Sample	Result	Flag	PAL	PAL
		(feet bgs)		Date	(ug/L)		(ug/L)	Exceedance?
TM02-PZM028	Intermediate	31-41	2,2'-Oxybis(1-chloropropane)	11/28/2001	20	U	0.36	No
TM02-PZM028	Intermediate	31-41	2,4,5-Trichlorophenol	11/28/2001	10	U	1,200	No
TM02-PZM028	Intermediate	31-41	2,4,5-Trichlorophenol	11/28/2001	10	U	1,200	No
TM02-PZM028	Intermediate	31-41	2,4,6-Trichlorophenol	11/28/2001	10	U	4	No
TM02-PZM028	Intermediate	31-41	2,4,6-Trichlorophenol	11/28/2001	10	U	4	No
TM02-PZM028	Intermediate	31-41	2,4-Dichlorophenol	11/28/2001	10	U	46	No
TM02-PZM028	Intermediate	31-41	2,4-Dichlorophenol	11/28/2001	10	U	46	No
TM02-PZM028	Intermediate	31-41	2,4-Dimethylphenol	11/28/2001	180		360	No
TM02-PZM028	Intermediate	31-41	2,4-Dimethylphenol	11/28/2001	170		360	No
TM02-PZM028	Intermediate	31-41	2,4-Dinitrophenol	11/28/2001	50	U	39	No
TM02-PZM028	Intermediate	31-41	2,4-Dinitrophenol	11/28/2001	50	U	39	No
TM02-PZM028	Intermediate	31-41	2,4-Dinitrotoluene	11/28/2001	10	U	0.24	No
TM02-PZM028	Intermediate	31-41	2,4-Dinitrotoluene	11/28/2001	10	U	0.24	No
TM02-PZM028	Intermediate	31-41	2,6-Dinitrotoluene	11/28/2001	10	U	0.048	No
TM02-PZM028	Intermediate	31-41	2,6-Dinitrotoluene	11/28/2001	10	U	0.048	No
TM02-PZM028	Intermediate	31-41	2-Butanone (MEK)	11/28/2001	5	U	5,600	No
TM02-PZM028	Intermediate	31-41	2-Butanone (MEK)	11/28/2001	5	U	5,600	No
TM02-PZM028	Intermediate	31-41	2-Chloronaphthalene	11/28/2001	10	U	750	No
TM02-PZM028	Intermediate	31-41	2-Chloronaphthalene	11/28/2001	10	U	750	No
TM02-PZM028	Intermediate	31-41	2-Chlorophenol	11/28/2001	10	U	91	No
TM02-PZM028	Intermediate	31-41	2-Chlorophenol	11/28/2001	10	U	91	No
TM02-PZM028	Intermediate	31-41	2-Hexanone	11/28/2001	5	U	38	No
TM02-PZM028	Intermediate	31-41	2-Hexanone	11/28/2001	5	U	38	No
TM02-PZM028	Intermediate	31-41	2-Methylnaphthalene	11/28/2001	11		36	No
TM02-PZM028	Intermediate	31-41	2-Methylnaphthalene	11/28/2001	11		36	No
TM02-PZM028	Intermediate	31-41	2-Methylphenol	11/28/2001	5.2	J	930	No
TM02-PZM028	Intermediate	31-41	2-Methylphenol	11/28/2001	5.2	J	930	No
TM02-PZM028	Intermediate	31-41	3,3'-Dichlorobenzidine	11/28/2001	50	U	0.12	No
TM02-PZM028	Intermediate	31-41	3,3'-Dichlorobenzidine	11/28/2001	50	U	0.12	No
TM02-PZM028	Intermediate	31-41	4-Methyl-2-pentanone (MIBK)	11/28/2001	5	U	1,200	No
TM02-PZM028	Intermediate	31-41	4-Methyl-2-pentanone (MIBK)	11/28/2001	5	U	1,200	No
TM02-PZM028	Intermediate	31-41	4-Methylphenol	11/28/2001	85		1,900	No
TM02-PZM028	Intermediate	31-41	4-Methylphenol	11/28/2001	77		1,900	No
TM02-PZM028	Intermediate	31-41	Acenaphthene	11/28/2001	2.8	J	530	No
TM02-PZM028	Intermediate	31-41	Acenaphthene	11/28/2001	2.6	J	530	No
TM02-PZM028	Intermediate	31-41	Acenaphthylene	11/28/2001	1.3	J	530	No
TM02-PZM028	Intermediate	31-41	Acenaphthylene	11/28/2001	1.2	J	530	No
TM02-PZM028	Intermediate	31-41	Acetone	11/28/2001	5.3	J	14,000	No
TM02-PZM028	Intermediate	31-41	Acetone	11/28/2001	3.6	J	14,000	No
TM02-PZM028	Intermediate	31-41	Anthracene	11/28/2001	1.3	J	1,800	No
TM02-PZM028	Intermediate	31-41	Anthracene	11/28/2001	1.1	J	1,800	No
TM02-PZM028	Intermediate	31-41	Antimony	11/28/2001	4.1	U	6	No
TM02-PZM028	Intermediate	31-41	Antimony	11/28/2001	4.1	U	6	No
TM02-PZM028	Intermediate	31-41	Aroclor-1016	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1016	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1221	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1221	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1232	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1232	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1242	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1242	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1248	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1248	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1254	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1254	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1260	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Aroclor-1260	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Arsenic	11/28/2001	3.2	J	10	No
TM02-PZM028	Intermediate	31-41	Arsenic	11/28/2001	2	U	10	No
				11/28/2001	117	J	2,000	No

Part			a	Sparrows Point, Marylai	lu I				
Nucle		_	Screen		Sample	Result		PAL	PAL
Moles-PZA028 Intermediate 34-41 Barium	Well	Zone		Parameter	-		Flag		
Internediate 31-41 Bend_alpathmence			` ,			(8)		. 0	
INDO_PZM028 Intermediate 31-41 Bend_aljambraces 11/28/2001 5.8 5 Yes TMO2_PZM028 Intermediate 31-41 Benzene 11/28/2001 5.8 5 Yes TMO2_PZM028 Intermediate 31-41 Benzel 11/28/2001 5.8 5 Yes TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.2 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.2 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.2 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.2 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.25 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Benzel alpyrene 11/28/2001 10 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 0.0 UJ 0.5 No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 0.0 UJ 0.0 No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 0.0 UJ 0.0 No No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 0.0 UJ 0.0 No No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 0.0 UJ 0.0 No No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 0.0 UJ 0.0 No No TMO2_PZM028 Intermediate 31-41 Sic2_Chlorendryprehane 11/28/2001 UJ 0.0 0.0 No No TMO2_PZM028 Intermediate 31-41		+							
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TMO2-PZM028 Intermediate 31-41 Interm		Intermediate		· ·					
TM02-PZM028 Intermediate 31-41 bis(2-Chloroethy)ether 11/28/2001 10 U 0.014 No 17M02-PZM028 Intermediate 31-41 bis(2-Chloroethy)ether 11/28/2001 10 U 0.014 No 17M02-PZM028 Intermediate 31-41 bis(2-Chloroethy)ether 11/28/2001 10 U 0.014 No 17M02-PZM028 Intermediate 31-41 bis(2-Chloroethy)ether 11/28/2001 10 U 0.014 No 17M02-PZM028 Intermediate 31-41 bis(2-Ethylbexy)phthalate 11/28/2001 10 U 6 No 17M02-PZM028 Intermediate 31-41 Bromoform 11/28/2001 10 U 6 No 17M02-PZM028 Intermediate 31-41 Bromoform 11/28/2001 1 U 3.33 No 17M02-PZM028 Intermediate 31-41 Cadmium 11/28/2001 1 U 3.33 No 17M02-PZM028 Intermediate 31-41 Cadmium 11/28/2001 1 U 3.33 No 17M02-PZM028 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No 17M02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No 17M02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No 17M02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No 17M02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No 17M02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 5 No 17M02-PZM028 Intermediate 31-41 Carbon tetrachloride 11/28/2001 1 U 5 No 17M02-PZM028 Intermediate 31-41 Carbon tetrachloride 11/28/2001 1 U 5 No 17M02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 5 No 17M02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 5 No 17M02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No 17M02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No 17M02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No 17M02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 2 100 No 17M02-PZM028 Intermediate 31-41 Chlorobenae 11/28/2001 1 U 0.022 No 17M02-PZM028 Intermediate 31-41 Chlorobenae 11/28/2001 1 U 0.022 No 17M02-PZM028 Intermediate 31-41 Chlorobenae 11/28/2001 1 U 0.022 No 17M02-PZM028 Intermediate 31-41 Chlorobenae 11/28/2001 1 U 0.022 No 17M02-PZM028 Intermediate 31-41 Chlorobenae 11/28/2001 1 U 0.025 No 17M02-PZM028 Intermediate 31-41 Chlorobenae 11/28/2001 1 U 0.025 No 17M02-PZM028 Inter				·					
TMO2-PZMO28 Intermediate 31-41 bis(2-Chloroethy)bether 11/28/2001 10 U 0.014 No 17MO2-PZMO28 Intermediate 31-41 bis(2-Chloroethy)bether 11/28/2001 10 U 0.014 No 17MO2-PZMO28 Intermediate 31-41 bis(2-Ethy)bety)phthalate 11/28/2001 10 U 6 No No 17MO2-PZMO28 Intermediate 31-41 Bis(2-Ethy)bety)phthalate 11/28/2001 10 U 6 No No 17MO2-PZMO28 Intermediate 31-41 Bromoform 11/28/2001 10 U 3.3 No 17MO2-PZMO28 Intermediate 31-41 Bromoform 11/28/2001 1 U 3.3 No 17MO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No 17MO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No 17MO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 0.63 U 5 No 17MO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 U 810 No 17MO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 U 810 No 17MO2-PZMO28 Intermediate 31-41 Carbon tetrachloride 11/28/2001 U 5 No 17MO2-PZMO28 Intermediate 31-41 Carbon tetrachloride 11/28/2001 U 5 No 17MO2-PZMO28 Intermediate 31-41 Carbon tetrachloride 11/28/2001 U 5 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U 100 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 100 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 100 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 0.00 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 0.00 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 0.02 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 0.02 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 0.02 No 17MO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 U U 0.02 No 17MO2-PZMO28 Inte	TM02-PZM028	Intermediate		•	11/28/2001				No
TMO2-PZMO28 Intermediate 31-41 bis(2-Chloroethyl)ether I1/28/2001 10 U 0.014 No No TMO2-PZMO28 Intermediate 31-41 bis(2-Chly)hexyl)pithalate I1/28/2001 10 U 6 No No TMO2-PZMO28 Intermediate 31-41 Bromoform I1/28/2001 10 U 6 No No TMO2-PZMO28 Intermediate 31-41 Bromoform I1/28/2001 1 U 3.3 No TMO2-PZMO28 Intermediate 31-41 Bromoform I1/28/2001 1 U 3.3 No TMO2-PZMO28 Intermediate 31-41 Cadmium I1/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium I1/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium I1/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide I1/28/2001 U U 810 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide I1/28/2001 U U 810 No TMO2-PZMO28 Intermediate 31-41 Carbon tetrachloride I1/28/2001 U U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon tetrachloride I1/28/2001 U U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon tetrachloride I1/28/2001 U U 5 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene I1/28/2001 U U 5 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene I1/28/2001 U U 0.0 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.0 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.0 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U 0.0 No TMO2-PZMO28 Intermediate 31-41 Chlorochane I1/28/2001 U U				• *					
TMO2-PZMO28 Intermediate 31-41 bis/2-Ethylbexylppthalate 11/28/2001 10 U 6 No No TMO2-PZMO28 Intermediate 31-41 Bis/2-Ethylbexylppthalate 11/28/2001 1 U 3.3 No TMO2-PZMO28 Intermediate 31-41 Bromoform 11/28/2001 1 U 3.3 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 1 U 3.3 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 1 U 810 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon terachloride 11/28/2001 1 U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon terachloride 11/28/2001 1 U 5 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 0.25 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001	TM02-PZM028	Intermediate			11/28/2001			0.014	
TMO2-PZMO28 Intermediate 31-41 biss(2-Ethylhexyl)phthalate 11/28/2001 1	TM02-PZM028	Intermediate		bis(2-Chloroethyl)ether	11/28/2001	10	U	0.014	No
TMO2-PZMO28 Intermediate 31-41 Bromoform 11/28/2001 1 U 3.3 No No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TMO2-PZMO28 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 5 No No TMO2-PZMO28 Intermediate 31-41 Carbon terachloride 11/28/2001 1 U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon terachloride 11/28/2001 1 U 5 No TMO2-PZMO28 Intermediate 31-41 Carbon terachloride 11/28/2001 1 U 5 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TMO2-PZMO28 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TMO2-PZMO28 Intermediate 31-41 Chlorochane 11/28/2001 2 U 21,000 No TMO2-PZMO28 Intermediate 31-41 Chlorochane 11/28/2001 2 U 21,000 No TMO2-PZMO28 Intermediate 31-41 Chlorochane 11/28/2001 2 U 21,000 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.25 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.25 No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U No No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U No No TMO2-PZMO28 Intermediate 31-41 Chloroform 11/28/2001 1 U No No TMO2-PZMO28 I	TM02-PZM028	Intermediate	31-41	bis(2-Ethylhexyl)phthalate	11/28/2001	10	U	6	No
TM02-PZM028 Intermediate 31-41 Bromoform 11/28/2001 1 U 3.3 No IM02-PZM028 Intermediate 31-41 Cadmium 11/28/2001 0.63 U 5 No No TM02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TM02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TM02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TM02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 5 No No TM02-PZM028 Intermediate 31-41 Carbon tetrachloride 11/28/2001 1 U 5 No No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 5 No No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U 0.25 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U 0.25 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U No No TM02-PZM028 I	TM02-PZM028	Intermediate	31-41	bis(2-Ethylhexyl)phthalate	11/28/2001	10		6	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Bromoform	11/28/2001	1	U	3.3	No
TM02-PZM028	TM02-PZM028	Intermediate		Bromoform	11/28/2001	1	U	3.3	No
TM02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No	TM02-PZM028	Intermediate	31-41	Cadmium	11/28/2001	0.63	U	5	No
TM02-PZM028 Intermediate 31-41 Carbon disulfide 11/28/2001 1 U 810 No TM02-PZM028 Intermediate 31-41 Carbon tetrachloride 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Carbon tetrachloride 11/28/2001 1 U 5 No TM02-PZM028 Intermediate 31-41 Carbon tetrachloride 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1,7 J 100 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1,7 J 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1,1 U 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1,0 U 2.5 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 2.5 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,0 U 2.5 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,0 U 5,00 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,0 U 5,00 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 U 5,000 No TM02-PZM028 Intermediat	TM02-PZM028	Intermediate	31-41	Cadmium	11/28/2001	0.63	U	5	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Carbon disulfide	11/28/2001	1	U	810	No
TM02-PZM028	TM02-PZM028	Intermediate		Carbon disulfide	11/28/2001	1	U	810	No
TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chlorobenzene 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chlorochane 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chlorochane 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1,7 J 100 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1,7 J 100 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1,1 U 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1,1 U 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Cis-1,3-Dichloropropene 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,3 U No No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz(a,h)anthracene 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dibenz(a,h)anthracene 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dibenz(a,h)anthracene 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dibenz(a,h)anthracene 11/28/2001 10 U 15,000 No	TM02-PZM028	Intermediate	31-41	Carbon tetrachloride	11/28/2001	1	U	5	No
TM02-PZM028 Intermediate 31-41 Chloroebane 11/28/2001 1 U 100 No TM02-PZM028 Intermediate 31-41 Chloroebane 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroebane 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1.7 J 100 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1.7 J 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1.0 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1 U No No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz/a.hanthracene 11/28/2001 7.9 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz/a.hanthracene 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dibenz/a.hanthracene 11/28/2001 10 U 5,000 No TM02-PZM028 Intermediate 31-41 Dibenz/a.hanthracene 11/28/2001 10 U 5,000 No TM02-PZM028 Intermediate 31-41 Dibenz/a.hanthracene 11/28/2001 10 U 5,000 No TM02-PZM028 Intermediate 31-41 Dientylphthalate 11/28/2001 10 U 5,000 No TM02-PZM028 Interme	TM02-PZM028	Intermediate		Carbon tetrachloride	11/28/2001	1		5	No
TM02-PZM028 Intermediate 31-41 Chloroethane 11/28/2001 2 U 21,000 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chloroform 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1 U 0.22 No TM02-PZM028 Intermediate 31-41 Chromium 11/28/2001 1.7 J 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1.1 U 100 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 1.0 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 Cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1,9 J 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7,3 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 U 0.025 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dien-octylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dien-octylphthalate 11/28/2001 10 U 200 No TM02-PZM028 Intermediate 31-41 Dien-octylphthalate 11/28/2001 10 U	TM02-PZM028	Intermediate	31-41	Chlorobenzene	11/28/2001	1	U	100	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Chlorobenzene	11/28/2001	1	U	100	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Chloroethane	11/28/2001	2	U	21,000	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Chloroethane	11/28/2001	2	U	21,000	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Chloroform	11/28/2001	1	U	0.22	No
TM02-PZM028	TM02-PZM028	Intermediate	31-41	Chloroform	11/28/2001	1	U	0.22	No
TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 <t< td=""><td>TM02-PZM028</td><td>Intermediate</td><td>31-41</td><td>Chromium</td><td>11/28/2001</td><td>1.7</td><td>J</td><td>100</td><td>No</td></t<>	TM02-PZM028	Intermediate	31-41	Chromium	11/28/2001	1.7	J	100	No
TM02-PZM028 Intermediate 31-41 Chrysene 11/28/2001 10 U 25 No TM02-PZM028 Intermediate 31-41 cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001	TM02-PZM028	Intermediate	31-41	Chromium	11/28/2001	1.1	U	100	No
TM02-PZM028 Intermediate 31-41 cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/2									
TM02-PZM028 Intermediate 31-41 cis-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dietnz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dietnz[a,h]anthracene 11/28/2001 10 UJ 15,000 No TM02-PZM028 Intermediate 31-41 Dietnz[a,h]anthracene <td>TM02-PZM028</td> <td>Intermediate</td> <td>31-41</td> <td>Chrysene</td> <td>11/28/2001</td> <td>10</td> <td>U</td> <td>25</td> <td>No</td>	TM02-PZM028	Intermediate	31-41	Chrysene	11/28/2001	10	U	25	No
TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 1.9 J 6 No TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41	TM02-PZM028	Intermediate	31-41	cis-1,3-Dichloropropene	11/28/2001	1	U		No
TM02-PZM028 Intermediate 31-41 Cobalt 11/28/2001 0.86 U 6 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41	TM02-PZM028	Intermediate	31-41	cis-1,3-Dichloropropene	11/28/2001	1	U		No
TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7.3 B 1,300 No TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diebnz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 </td <td>TM02-PZM028</td> <td>Intermediate</td> <td>31-41</td> <td>Cobalt</td> <td>11/28/2001</td> <td>1.9</td> <td>J</td> <td>6</td> <td>No</td>	TM02-PZM028	Intermediate	31-41	Cobalt	11/28/2001	1.9	J	6	No
TM02-PZM028 Intermediate 31-41 Copper 11/28/2001 7 B 1,300 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate <	TM02-PZM028				11/28/2001		U		No
TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Dien-butylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate	TM02-PZM028	Intermediate					В		No
TM02-PZM028 Intermediate 31-41 Dibenz[a,h]anthracene 11/28/2001 10 UJ 0.025 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate	TM02-PZM028					7	В		No
TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41									No
TM02-PZM028 Intermediate 31-41 Diethylphthalate 11/28/2001 10 U 15,000 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41	TM02-PZM028							0.025	No
TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluo	TM02-PZM028	Intermediate	31-41	Diethylphthalate	11/28/2001	10	U	15,000	No
TM02-PZM028 Intermediate 31-41 Di-n-butylphthalate 11/28/2001 10 U 900 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028	Intermediate	31-41			10	U	15,000	No
TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028	Intermediate		* 1				900	No
TM02-PZM028 Intermediate 31-41 Di-n-octylphthalate 11/28/2001 10 UJ 200 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028				11/28/2001	10	U	900	No
TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.56 J 700 No TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No		Intermediate							No
TM02-PZM028 Intermediate 31-41 Ethylbenzene 11/28/2001 0.48 J 700 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028			7 1		10	UJ		No
TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.5 J 800 No TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028	Intermediate			11/28/2001	0.56	J		No
TM02-PZM028 Intermediate 31-41 Fluoranthene 11/28/2001 1.4 J 800 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028	Intermediate	31-41	Ethylbenzene	11/28/2001	0.48	J	700	No
TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.6 J 290 No TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028	Intermediate		Fluoranthene	11/28/2001	1.5	J	800	No
TM02-PZM028 Intermediate 31-41 Fluorene 11/28/2001 3.5 J 290 No	TM02-PZM028			Fluoranthene		1.4	J		No
	TM02-PZM028	Intermediate	31-41	Fluorene	11/28/2001	3.6	J	290	No
TM02-PZM028 Intermediate 31-41 Hexachlorobenzene 11/28/2001 10 U 1 No	TM02-PZM028					3.5	J	290	No
	TM02-PZM028	Intermediate	31-41	Hexachlorobenzene	11/28/2001	10	U	1	No

		G	Sparrows Point, Marylar	iu				
Wall	Zana	Screen	Donomoton	Sample	Result	Floor	PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TM02-PZM028	Intermediate	(feet bgs) 31-41	Hexachlorobenzene	11/28/2001	10	U	1	No
TM02-PZM028	Intermediate	31-41	Hexachlorobutadiene	11/28/2001	10	U	0.14	No
TM02-1ZM028	Intermediate	31-41	Hexachlorobutadiene	11/28/2001	10	U	0.14	No
TM02-1 ZW028 TM02-PZM028	Intermediate	31-41	Hexachlorocyclopentadiene	11/28/2001	50	U	50	No
TM02-PZM028	Intermediate	31-41	Hexachlorocyclopentadiene	11/28/2001	50	U	50	No
TM02-PZM028	Intermediate	31-41	Hexachloroethane	11/28/2001	10	U	0.33	No
TM02-PZM028	Intermediate	31-41	Hexachloroethane	11/28/2001	10	U	0.33	No
TM02-PZM028	Intermediate	31-41	Indeno[1,2,3-cd]pyrene	11/28/2001	10	UJ	0.25	No
TM02-PZM028	Intermediate	31-41	Indeno[1,2,3-cd]pyrene	11/28/2001	10	UJ	0.25	No
TM02-PZM028	Intermediate	31-41	Isophorone	11/28/2001	10	U	78	No
TM02-PZM028	Intermediate	31-41	Isophorone	11/28/2001	10	U	78	No
TM02-PZM028	Intermediate	31-41	Lead	11/28/2001	1.8	U	15	No
TM02-PZM028	Intermediate	31-41	Lead	11/28/2001	1.8	U	15	No
TM02-PZM028	Intermediate	31-41	Mercury	11/28/2001	0.054	U	2	No
TM02-PZM028	Intermediate	31-41	Mercury	11/28/2001	0.054	U	2	No
TM02-PZM028	Intermediate	31-41	Methylene chloride	11/28/2001	2	U	5	No
TM02-PZM028	Intermediate	31-41	Methylene chloride	11/28/2001	2	U	5	No
TM02-PZM028	Intermediate	31-41	Naphthalene	11/28/2001	150		0.17	Yes
TM02-PZM028	Intermediate	31-41	Naphthalene	11/28/2001	150		0.17	Yes
TM02-PZM028	Intermediate	31-41	Nickel	11/28/2001	15.9	J	390	No
TM02-PZM028	Intermediate	31-41	Nickel	11/28/2001	14.6	J	390	No
TM02-PZM028	Intermediate	31-41	Nitrobenzene	11/28/2001	10	U	0.14	No
TM02-PZM028	Intermediate	31-41	Nitrobenzene	11/28/2001	10	U	0.14	No
TM02-PZM028	Intermediate	31-41	Pentachlorophenol	11/28/2001	50	U	1	No
TM02-PZM028	Intermediate	31-41	Pentachlorophenol	11/28/2001	50	U	1	No
TM02-PZM028	Intermediate	31-41	Phenanthrene	11/28/2001	7.8	J		No
TM02-PZM028	Intermediate	31-41	Phenanthrene	11/28/2001	7.6	J		No
TM02-PZM028	Intermediate	31-41	Phenol	11/28/2001	8	J	5,800	No
TM02-PZM028	Intermediate	31-41	Phenol	11/28/2001	7.7	J	5,800	No
TM02-PZM028	Intermediate	31-41	Pyrene	11/28/2001	10	U	120	No
TM02-PZM028	Intermediate	31-41	Pyrene	11/28/2001	10	U	120	No
TM02-PZM028	Intermediate	31-41	Selenium	11/28/2001	3.2	U	50	No
TM02-PZM028	Intermediate	31-41	Selenium	11/28/2001	3.2	U	50	No
TM02-PZM028	Intermediate	31-41	Silver	11/28/2001	0.75	U	94	No
TM02-PZM028	Intermediate	31-41	Silver	11/28/2001	0.75	U	94	No
TM02-PZM028	Intermediate	31-41	Tetrachloroethene	11/28/2001	1	U	5	No
TM02-PZM028	Intermediate	31-41	Tetrachloroethene	11/28/2001	1	U	5	No
TM02-PZM028	Intermediate	31-41	Thallium	11/28/2001	5.7	U	2	No
TM02-PZM028	Intermediate	31-41	Thallium	11/28/2001	5.7	U	2	No
TM02-PZM028	Intermediate	31-41	Toluene	11/28/2001	5.2		1,000	No
TM02-PZM028	Intermediate	31-41	Toluene	11/28/2001	4.6		1,000	No
TM02-PZM028	Intermediate	31-41	trans-1,2-Dichloroethene	11/28/2001	1	U	100	No
TM02-PZM028	Intermediate	31-41	trans-1,2-Dichloroethene	11/28/2001	1	U	100	No
TM02-PZM028	Intermediate	31-41	trans-1,3-Dichloropropene	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	trans-1,3-Dichloropropene	11/28/2001	1	U		No
TM02-PZM028	Intermediate	31-41	Trichloroethene	11/28/2001	1		5	No
TM02-PZM028	Intermediate	31-41	Trichloroethene	11/28/2001	1		5	No
TM02-PZM028	Intermediate	31-41	Vanadium	11/28/2001	29.6	J	86	No
TM02-PZM028	Intermediate	31-41	Vanadium	11/28/2001	24.9	J	86	No
TM02-PZM028	Intermediate	31-41	Vinyl chloride	11/28/2001	2	U	2	No
TM02-PZM028	Intermediate	31-41	Vinyl chloride	11/28/2001	2	U	2	No
TM02-PZM028	Intermediate	31-41	Xylenes	11/28/2001	9.8		10,000	No
TM02-PZM028	Intermediate	31-41	Xylenes	11/28/2001	8.8		10,000	No
TM02-PZM028	Intermediate	31-41	Zinc	11/28/2001	6.2	В	6,000	No
TM02-PZM028	Intermediate	31-41	Zinc	11/28/2001	3.3	В	6,000	No
TM02-PZM028 DUP	Intermediate	31-41	1,1,1-Trichloroethane	10/1/2001	1	U	200	No
TM02-PZM028 DUP	Intermediate	31-41	1,1,2,2-Tetrachloroethane	10/1/2001	1	U	0.076	No
TM02-PZM028 DUP	Intermediate	31-41	1,1,2-Trichloroethane	10/1/2001	1	U	5	No
TM02-PZM028 DUP	Intermediate	31-41	1,1-Dichloroethane	10/1/2001	1	U	2.7	No
TM02-PZM028 DUP	Intermediate	31-41	1,1-Dichloroethene	10/1/2001	1	U	7	No

			Sparrows Point, Marylan	u I				
	_	Screen		Sample	Result		PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
		(feet bgs)			. 0			
TM02-PZM028 DUP	Intermediate	31-41	1,2,4-Trichlorobenzene	10/1/2001	10	U	70	No
TM02-PZM028 DUP	Intermediate	31-41	1,2-Dichlorobenzene	10/1/2001	10	U	600	No
TM02-PZM028 DUP	Intermediate	31-41	1,2-Dichloroethane	10/1/2001	1	U	5	No
TM02-PZM028 DUP	Intermediate	31-41	1,2-Dichloropropane	10/1/2001	1	U	5	No
TM02-PZM028 DUP	Intermediate	31-41	1,3-Dichlorobenzene	10/1/2001	10	U		No
TM02-PZM028 DUP	Intermediate	31-41	1,4-Dichlorobenzene	10/1/2001	10	U	75	No
TM02-PZM028 DUP	Intermediate	31-41	2,4,5-Trichlorophenol	10/1/2001	10	U	1,200	No
TM02-PZM028 DUP	Intermediate	31-41	2,4,6-Trichlorophenol	10/1/2001	10	U	4	No
TM02-PZM028 DUP	Intermediate	31-41	2,4-Dichlorophenol	10/1/2001	10	U	46	No
TM02-PZM028 DUP	Intermediate	31-41	2,4-Dimethylphenol	10/1/2001	170		360	No
TM02-PZM028 DUP	Intermediate	31-41	2,4-Dinitrophenol	10/1/2001	50	U	39	No
TM02-PZM028 DUP	Intermediate	31-41	2,4-Dinitrotoluene	10/1/2001	10	U	0.24	No
TM02-PZM028 DUP	Intermediate	31-41	2,6-Dinitrotoluene	10/1/2001	10	U	0.048	No
TM02-PZM028 DUP	Intermediate	31-41	2-Butanone (MEK)	10/1/2001	5	U	5,600	No
TM02-PZM028 DUP	Intermediate		2-Chloronaphthalene	10/1/2001	10	U	750	No
TM02-PZM028 DUP	Intermediate	31-41	2-Chlorophenol	10/1/2001	10	U	91	No
TM02-PZM028 DUP	Intermediate	31-41	2-Hexanone	10/1/2001	5	U	38	No
TM02-PZM028 DUP	Intermediate		2-Methylnaphthalene	10/1/2001	11		36	No
TM02-PZM028 DUP	Intermediate	31-41	2-Methylphenol	10/1/2001	5.2	J	930	No
TM02-PZM028 DUP	Intermediate	31-41	3,3'-Dichlorobenzidine	10/1/2001	50	U	0.12	No
TM02-PZM028 DUP	Intermediate	31-41	4-Methyl-2-pentanone (MIBK)	10/1/2001	5	U	1,200	No
TM02-PZM028 DUP	Intermediate	31-41	Acenaphthene	10/1/2001	2.6	J	530	No
TM02-PZM028 DUP	Intermediate	31-41	Acenaphthylene	10/1/2001	1.2	J	530	No
TM02-PZM028 DUP	Intermediate	31-41	Acetone	10/1/2001	3.6	J	14,000	No
TM02-PZM028 DUP	Intermediate	31-41	Anthracene	10/1/2001	1.1	J	1,800	No
TM02-PZM028 DUP	Intermediate	31-41	Antimony	10/1/2001	4.1	U	6	No
TM02-PZM028 DUP	Intermediate	31-41	Arsenic	10/1/2001	2	U	10	No
TM02-PZM028 DUP	Intermediate	31-41	Barium	10/1/2001	116	J	2,000	No
TM02-PZM028 DUP	Intermediate	31-41	Benz[a]anthracene	10/1/2001	10	U	0.03	No
TM02-PZM028 DUP	Intermediate	31-41	Benzene	10/1/2001	5.8		5	Yes
TM02-PZM028 DUP	Intermediate	31-41	Benzo[a]pyrene	10/1/2001	10	UJ	0.2	No
TM02-PZM028 DUP	Intermediate	31-41	Benzo[b]fluoranthene	10/1/2001	10	UJ	0.25	No
TM02-PZM028 DUP	Intermediate	31-41	Benzo[g,h,i]perylene	10/1/2001	10	UJ		No
TM02-PZM028 DUP	Intermediate	31-41	Benzo[k]fluoranthene	10/1/2001	10	UJ	2.5	No
TM02-PZM028 DUP	Intermediate	31-41	Beryllium	10/1/2001	3	U	4	No
TM02-PZM028 DUP	Intermediate	31-41	bis(2-Chloroethoxy)methane	10/1/2001	10	U	59	No
TM02-PZM028 DUP	Intermediate	31-41	bis(2-Chloroethyl)ether	10/1/2001	10	U	0.014	No
TM02-PZM028 DUP	Intermediate	31-41	bis(2-Ethylhexyl)phthalate	10/1/2001	10	U	6	No
TM02-PZM028 DUP	Intermediate	31-41	Bromoform	10/1/2001	1	U	3.3	No
TM02-PZM028 DUP	Intermediate	31-41	Cadmium	10/1/2001	0.63	U	5	No
TM02-PZM028 DUP	Intermediate	31-41	Carbon disulfide	10/1/2001	1	U	810	No
TM02-PZM028 DUP	Intermediate	31-41	Carbon tetrachloride	10/1/2001	1	U	5	No
TM02-PZM028 DUP	Intermediate	31-41	Chlorobenzene	10/1/2001	1	U	100	No
TM02-PZM028 DUP	Intermediate	31-41	Chloroethane	10/1/2001	2	U	21,000	No
TM02-PZM028 DUP	Intermediate	31-41	Chloroform	10/1/2001	1	U	0.22	No
TM02-PZM028 DUP	Intermediate	31-41	Chromium	10/1/2001	1.7	J	100	No
TM02-PZM028 DUP	Intermediate	31-41	Chrysene	10/1/2001	10	U	25	No
TM02-PZM028 DUP	Intermediate	31-41	cis-1,3-Dichloropropene	10/1/2001	1	U	_	No
TM02-PZM028 DUP	Intermediate	31-41	Cobalt	10/1/2001	1.9	J	6	No
TM02-PZM028 DUP	Intermediate	31-41	Copper	10/1/2001	7.3	U	1,300	No
TM02-PZM028 DUP	Intermediate	31-41	Cyanide, amenable	10/1/2001	6,300	J	200	Yes
TM02-PZM028 DUP	Intermediate	31-41	Dibenz[a,h]anthracene	10/1/2001	10	UJ	0.025	No
TM02-PZM028 DUP	Intermediate	31-41	Diethylphthalate	10/1/2001	10	U	15,000	No
TM02-PZM028 DUP	Intermediate	31-41	Di-n-butylphthalate	10/1/2001	10	U	900	No
TM02-PZM028 DUP	Intermediate	31-41	Di-n-octylphthalate	10/1/2001	10	UJ	200	No
TM02-PZM028 DUP	Intermediate	31-41	Ethylbenzene	10/1/2001	0.48	J	700	No
TM02-PZM028 DUP	Intermediate	31-41	Fluoranthene	10/1/2001	1.4	J	800	No
TM02-PZM028 DUP	Intermediate	31-41	Fluorene	10/1/2001	3.5	J	290	No
TM02-PZM028 DUP	Intermediate	31-41	Hexachlorobenzene	10/1/2001	10	U	1	No
TM02-PZM028 DUP	Intermediate	31-41	Hexachlorobutadiene	10/1/2001	10	U	0.14	No

	Sparrows Point, Maryland								
*** 11	7	Screen	.	Sample	Result	-	PAL	PAL	
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?	
		(feet bgs)					. 0		
TM02-PZM028 DUP	Intermediate	31-41	Hexachlorocyclopentadiene	10/1/2001	50	U	50	No	
TM02-PZM028 DUP	Intermediate	31-41	Hexachloroethane	10/1/2001	10	U	0.33	No	
TM02-PZM028 DUP	Intermediate	31-41	Indeno[1,2,3-cd]pyrene	10/1/2001	10	UJ	0.25	No	
TM02-PZM028 DUP	Intermediate	31-41	Isophorone	10/1/2001	10	U	78	No	
TM02-PZM028 DUP	Intermediate	31-41	Lead	10/1/2001	1.8	U	15	No	
TM02-PZM028 DUP	Intermediate	31-41	Mercury	10/1/2001	0.054	U	2	No	
TM02-PZM028 DUP	Intermediate	31-41	Methylene chloride	10/1/2001	2	U	5	No	
TM02-PZM028 DUP	Intermediate	31-41	Naphthalene	10/1/2001	150		0.17	Yes	
TM02-PZM028 DUP	Intermediate	31-41	Nickel	10/1/2001	15.9	J	390	No	
TM02-PZM028 DUP	Intermediate	31-41	Nitrobenzene	10/1/2001	10	U	0.14	No	
TM02-PZM028 DUP	Intermediate	31-41	Pentachlorophenol	10/1/2001	50	U	1	No	
TM02-PZM028 DUP	Intermediate	31-41	Phenanthrene	10/1/2001	7.6	J	7 000	No	
TM02-PZM028 DUP	Intermediate	31-41	Phenol	10/1/2001	7.7	J	5,800	No	
TM02-PZM028 DUP	Intermediate	31-41	Pyrene	10/1/2001	10	U	120	No	
TM02-PZM028 DUP	Intermediate	31-41	Selenium	10/1/2001	3.2	U	50	No	
TM02-PZM028 DUP	Intermediate	31-41	Silver	10/1/2001	0.75	U	94	No	
TM02-PZM028 DUP	Intermediate	31-41	Tetrachloroethene	10/1/2001	1	U	5	No	
TM02-PZM028 DUP	Intermediate	31-41	Thallium	10/1/2001	5.7	U	2	No	
TM02-PZM028 DUP	Intermediate	31-41	Toluene	10/1/2001	4.6		1,000	No	
TM02-PZM028 DUP	Intermediate	31-41	trans-1,2-Dichloroethene	10/1/2001	1	U	100	No	
TM02-PZM028 DUP	Intermediate	31-41	trans-1,3-Dichloropropene	10/1/2001	1	U		No	
TM02-PZM028 DUP	Intermediate	31-41	Trichloroethene	10/1/2001	1		5	No	
TM02-PZM028 DUP	Intermediate	31-41	Vanadium	10/1/2001	29.6	J	86	No	
TM02-PZM028 DUP	Intermediate	31-41	Vinyl chloride	10/1/2001	2	U	2	No	
TM02-PZM028 DUP	Intermediate	31-41	Xylenes	10/1/2001	8.8		10,000	No	
TM02-PZM028 DUP	Intermediate	31-41	Zinc	10/1/2001	3.3	U	6,000	No	
TM02-PZM062	Lower	60-70	1,1,1-Trichloroethane	10/1/2001	1	U	200	No	
TM02-PZM062	Lower	60-70	1,1,2,2-Tetrachloroethane	10/1/2001	1	U	0.076	No	
TM02-PZM062	Lower	60-70	1,1,2-Trichloroethane	10/1/2001	1	U	5	No	
TM02-PZM062	Lower	60-70	1,1-Dichloroethane	10/1/2001	1	U	2.7	No	
TM02-PZM062	Lower	60-70	1,1-Dichloroethene	10/1/2001	1	U	7	No	
TM02-PZM062	Lower	60-70	1,2,4-Trichlorobenzene	10/1/2001	10	U	70	No	
TM02-PZM062	Lower	60-70	1,2-Dichlorobenzene	10/1/2001	10	U	600	No	
TM02-PZM062	Lower	60-70	1,2-Dichloroethane	10/1/2001	1	U	5	No	
TM02-PZM062	Lower	60-70	1,2-Dichloropropane	10/1/2001	1	U	5	No	
TM02-PZM062	Lower	60-70	1,3-Dichlorobenzene	10/1/2001	10	U		No	
TM02-PZM062	Lower	60-70	1,4-Dichlorobenzene	10/1/2001	10	U	75	No	
TM02-PZM062	Lower	60-70	2,4,5-Trichlorophenol	10/1/2001	10	U	1,200	No	
TM02-PZM062	Lower	60-70	2,4,6-Trichlorophenol	10/1/2001	10	U	4	No	
TM02-PZM062	Lower	60-70	2,4-Dichlorophenol	10/1/2001	10	U	46	No	
TM02-PZM062	Lower	60-70	2,4-Dimethylphenol	10/1/2001	45		360	No	
TM02-PZM062	Lower	60-70	2,4-Dinitrophenol	10/1/2001	50	U	39	No	
TM02-PZM062	Lower	60-70	2,4-Dinitrotoluene	10/1/2001	10	U	0.24	No	
TM02-PZM062	Lower	60-70	2,6-Dinitrotoluene	10/1/2001	10	U	0.048	No	
TM02-PZM062	Lower	60-70	2-Butanone (MEK)	10/1/2001	1.4	J	5,600	No	
TM02-PZM062	Lower	60-70	2-Chloronaphthalene	10/1/2001	10	U	750	No	
TM02-PZM062	Lower	60-70	2-Chlorophenol	10/1/2001	10	U	91	No	
TM02-PZM062	Lower	60-70	2-Hexanone	10/1/2001	5	U	38	No	
TM02-PZM062	Lower	60-70	2-Methylnaphthalene	10/1/2001	3.5	J	36	No	
TM02-PZM062	Lower	60-70	2-Methylphenol	10/1/2001	2	J	930	No	
TM02-PZM062	Lower	60-70	3,3'-Dichlorobenzidine	10/1/2001	50	U	0.12	No	
TM02-PZM062	Lower	60-70	4-Methyl-2-pentanone (MIBK)	10/1/2001	5	U	1,200	No	
TM02-PZM062	Lower	60-70	Acenaphthene	10/1/2001	1.7	J	530	No	
TM02-PZM062	Lower	60-70	Acenaphthylene	10/1/2001	1	J	530	No	
TM02-PZM062	Lower	60-70	Acetone	10/1/2001	6.7	J	14,000	No	
TM02-PZM062	Lower	60-70	Anthracene	10/1/2001	10	U	1,800	No	
TM02-PZM062	Lower	60-70	Antimony	10/1/2001	4.1	U	6	No	
TM02-PZM062	Lower	60-70	Arsenic	10/1/2001	15.4		10	Yes	
TM02-PZM062	Lower	60-70	Barium	10/1/2001	125	J	2,000	No	
TM02-PZM062	Lower	60-70	Benz[a]anthracene	10/1/2001	10	U	0.03	No	
11/102-1 ZIVIOUZ	LOWEI	JU-7U	Denzialanniacene	10/1/2001	10	L	0.03	110	

		Screen	Sparrows Point, Mary					
Well	Zone	Interval	Parameter	Sample	Result	Flag	PAL	PAL
VV CII	Zone	(feet bgs)	1 at affecter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TM02-PZM062	Lower	60-70	Benzene	10/1/2001	2.7		5	No
TM02-PZM062	Lower	60-70	Benzo[a]pyrene	10/1/2001	10	U	0.2	No
TM02-PZM062	Lower	60-70	Benzo[b]fluoranthene	10/1/2001	10	U	0.25	No
TM02-PZM062	Lower	60-70	Benzo[g,h,i]perylene	10/1/2001	10	U	0.20	No
TM02-PZM062	Lower	60-70	Benzo[k]fluoranthene	10/1/2001	10	U	2.5	No
TM02-PZM062	Lower	60-70	Beryllium	10/1/2001	3.4	U	4	No
TM02-PZM062	Lower	60-70	bis(2-Chloroethoxy)methane	10/1/2001	10	U	59	No
TM02-PZM062	Lower	60-70	bis(2-Chloroethyl)ether	10/1/2001	10	U	0.014	No
TM02-PZM062	Lower	60-70	bis(2-Ethylhexyl)phthalate	10/1/2001	10	U	6	No
TM02-PZM062	Lower	60-70	Bromoform	10/1/2001	1	U	3.3	No
TM02-PZM062	Lower	60-70	Cadmium	10/1/2001	0.63	U	5	No
TM02-PZM062	Lower	60-70	Carbon disulfide	10/1/2001	1	U	810	No
TM02-PZM062	Lower	60-70	Carbon tetrachloride	10/1/2001	1	U	5	No
TM02-PZM062	Lower	60-70	Chlorobenzene	10/1/2001	1	U	100	No
TM02-PZM062	Lower	60-70	Chloroethane	10/1/2001	2	U	21,000	No
TM02-PZM062	Lower	60-70	Chloroform	10/1/2001	1	U	0.22	No
TM02-PZM062	Lower	60-70	Chromium	10/1/2001	2.4	J	100	No
TM02-PZM062	Lower	60-70	Chrysene	10/1/2001	10	U	25	No
TM02-PZM062	Lower	60-70	cis-1,3-Dichloropropene	10/1/2001	1	U		No
TM02-PZM062	Lower	60-70	Cobalt	10/1/2001	0.86	U	6	No
TM02-PZM062	Lower	60-70	Copper	10/1/2001	6.8	U	1,300	No
TM02-PZM062	Lower	60-70	Cyanide, amenable	10/1/2001	430	J	200	Yes
TM02-PZM062	Lower	60-70	Dibenz[a,h]anthracene	10/1/2001	10	U	0.025	No
TM02-PZM062	Lower	60-70	Diethylphthalate	10/1/2001	10	U	15,000	No
TM02-PZM062	Lower	60-70	Di-n-butylphthalate	10/1/2001	10	U	900	No
TM02-PZM062	Lower	60-70	Di-n-octylphthalate	10/1/2001	10	U	200	No
TM02-PZM062	Lower	60-70	Ethylbenzene	10/1/2001	1	U	700	No
TM02-PZM062	Lower	60-70	Fluoranthene	10/1/2001	1.4	J	800	No
TM02-PZM062	Lower	60-70	Fluorene	10/1/2001	2.1	J	290	No
TM02-PZM062	Lower	60-70	Hexachlorobenzene	10/1/2001	10	U	1	No
TM02-PZM062	Lower	60-70	Hexachlorobutadiene	10/1/2001	10	U	0.14	No
TM02-PZM062	Lower	60-70	Hexachlorocyclopentadiene	10/1/2001	50	U	50	No
TM02-PZM062	Lower	60-70	Hexachloroethane	10/1/2001	10	U	0.33	No
TM02-PZM062	Lower	60-70	Indeno[1,2,3-cd]pyrene	10/1/2001	10	U	0.25	No
TM02-PZM062	Lower	60-70	Iron	10/1/2001	7,500		14,000	No
TM02-PZM062	Lower	60-70	Isophorone	10/1/2001	10	U	78	No
TM02-PZM062	Lower	60-70	Lead	10/1/2001	1.8	U	15	No
TM02-PZM062	Lower	60-70	Mercury	10/1/2001	0.054	U	2	No
TM02-PZM062	Lower	60-70	Methylene chloride	10/1/2001	2	U	5	No
TM02-PZM062	Lower	60-70	Naphthalene	10/1/2001	41		0.17	Yes
TM02-PZM062	Lower	60-70	Nickel	10/1/2001	3.8	J	390	No
TM02-PZM062	Lower	60-70	Nitrobenzene	10/1/2001	10	U	0.14	No
TM02-PZM062	Lower	60-70	Pentachlorophenol	10/1/2001	50	U	1	No
TM02-PZM062	Lower	60-70	Phenanthrene	10/1/2001	5.1	J		No
TM02-PZM062	Lower	60-70	Phenol	10/1/2001	29		5,800	No
TM02-PZM062	Lower	60-70	Pyrene	10/1/2001	10	U	120	No
TM02-PZM062	Lower	60-70	Selenium	10/1/2001	3.2	U	50	No
TM02-PZM062	Lower	60-70	Silver	10/1/2001	0.75	U	94	No
TM02-PZM062	Lower	60-70	Tetrachloroethene	10/1/2001	11	U	5	No
TM02-PZM062	Lower	60-70	Thallium	10/1/2001	5.7	U	2	No
TM02-PZM062	Lower	60-70	Toluene	10/1/2001	2.1		1,000	No
TM02-PZM062	Lower	60-70	trans-1,2-Dichloroethene	10/1/2001	1	U	100	No
TM02-PZM062	Lower	60-70	trans-1,3-Dichloropropene	10/1/2001	1	U		No
TM02-PZM062	Lower	60-70	Trichloroethene	10/1/2001	2		5	No
TM02-PZM062	Lower	60-70	Vanadium	10/1/2001	19.5	J	86	No
TM02-PZM062	Lower	60-70	Vinyl chloride	10/1/2001	2	U	2	No
TM02-PZM062	Lower	60-70	Xylenes	10/1/2001	3.7		10,000	No
TM02-PZM062	Lower	60-70	Zinc	10/1/2001	4	U	6,000	No
TM02-PZM062	Lower	60-70	1,1,1-Trichloroethane	11/28/2001	1	U	200	No
TM02-PZM062	Lower	60-70	1,1,2,2-Tetrachloroethane	11/28/2001	1	U	0.076	No

		Screen		Cample	Dogwle		DAT	DAI
Well	Zone	Interval (feet bgs)	Parameter	Sample Date	Result (ug/L)	Flag	PAL (ug/L)	PAL Exceedance?
TM02-PZM062	Lower	60-70	1,1,2-Trichloroethane	11/28/2001	1	U	5	No
TM02-PZM062	Lower	60-70	1,1-Dichloroethane	11/28/2001	1	U	2.7	No
TM02-PZM062	Lower	60-70	1,1-Dichloroethene	11/28/2001	1	U	7	No
TM02-PZM062	Lower	60-70	1,2,4-Trichlorobenzene	11/28/2001	10	U	70	No
TM02-PZM062	Lower	60-70	1,2-Dichlorobenzene	11/28/2001	10	U	600	No
TM02-PZM062	Lower	60-70	1,2-Dichloroethane	11/28/2001	1	U	5	No
TM02-PZM062	Lower	60-70	1,2-Dichloropropane	11/28/2001	1	U	5	No
TM02-PZM062	Lower	60-70	1,3-Dichlorobenzene	11/28/2001	10	U		No
TM02-PZM062	Lower	60-70	1,4-Dichlorobenzene	11/28/2001	10	U	75	No
TM02-PZM062	Lower	60-70	2,2'-Oxybis(1-chloropropane)	11/28/2001	20	U	0.36	No
TM02-PZM062	Lower	60-70	2,4,5-Trichlorophenol	11/28/2001	10	U	1,200	No
TM02-PZM062	Lower	60-70	2,4,6-Trichlorophenol	11/28/2001	10	U	4	No
TM02-PZM062	Lower	60-70	2,4-Dichlorophenol	11/28/2001	10	U	46	No
TM02-PZM062	Lower	60-70	2,4-Dimethylphenol	11/28/2001	45		360	No
TM02-PZM062	Lower	60-70	2,4-Dinitrophenol	11/28/2001	50	U	39	No
TM02-PZM062	Lower	60-70	2,4-Dinitrotoluene	11/28/2001	10	U	0.24	No
TM02-PZM062	Lower	60-70	2,6-Dinitrotoluene	11/28/2001	10	U	0.048	No
TM02-PZM062	Lower	60-70	2-Butanone (MEK)	11/28/2001	1.4	J	5,600	No
TM02-PZM062	Lower	60-70	2-Chloronaphthalene	11/28/2001	10	U	750	No
TM02-PZM062	Lower	60-70	2-Chlorophenol	11/28/2001	10	U	91	No
TM02-PZM062	Lower	60-70	2-Hexanone	11/28/2001	5	U	38	No
TM02-PZM062	Lower	60-70	2-Methylnaphthalene	11/28/2001	3.5	J	36	No
TM02-PZM062	Lower	60-70	2-Methylphenol	11/28/2001	2	J	930	No
TM02-PZM062	Lower	60-70	3,3'-Dichlorobenzidine	11/28/2001	50	U	0.12	No
TM02-PZM062	Lower	60-70	4-Methyl-2-pentanone (MIBK)	11/28/2001	5	U	1,200	No
TM02-PZM062	Lower	60-70	4-Methylphenol	11/28/2001	27		1,900	No
TM02-PZM062	Lower	60-70	Acenaphthene	11/28/2001	1.7	J	530	No
TM02-PZM062	Lower	60-70	Acenaphthylene	11/28/2001	1	J	530	No
TM02-PZM062	Lower	60-70	Acetone	11/28/2001	6.7	J	14,000	No
TM02-PZM062	Lower	60-70	Anthracene	11/28/2001	10	U	1,800	No
TM02-PZM062	Lower	60-70	Antimony	11/28/2001	4.1	U	6	No
TM02-PZM062	Lower	60-70	Aroclor-1016	11/28/2001	1	U		No
TM02-PZM062	Lower	60-70	Aroclor-1221	11/28/2001	1	U		No
TM02-PZM062	Lower	60-70	Aroclor-1232	11/28/2001	1	U		No
TM02-PZM062	Lower	60-70	Aroclor-1242	11/28/2001	1	U		No
TM02-PZM062	Lower	60-70	Aroclor-1248	11/28/2001	1	U		No
TM02-PZM062	Lower	60-70	Aroclor-1254	11/28/2001	1	U		No
TM02-PZM062	Lower	60-70	Aroclor-1260	11/28/2001	1	U		No
TM02-PZM062	Lower		Arsenic	11/28/2001	15.4		10	Yes
TM02-PZM062	Lower	60-70	Barium	11/28/2001	125	J	2,000	No
TM02-PZM062	Lower	60-70	Benz[a]anthracene	11/28/2001	10	U	0.03	No
TM02-PZM062	Lower	60-70	Benzene	11/28/2001	2.7		5	No
TM02-PZM062	Lower	60-70	Benzo[a]pyrene	11/28/2001	10	U	0.2	No
TM02-PZM062	Lower	60-70	Benzo[b]fluoranthene	11/28/2001	10	U	0.25	No
TM02-PZM062	Lower	60-70	Benzo[g,h,i]perylene	11/28/2001	10	U		No
TM02-PZM062	Lower	60-70	Benzo[k]fluoranthene	11/28/2001	10	U	2.5	No
TM02-PZM062	Lower	60-70	Beryllium	11/28/2001	3.4	В	4	No
TM02-PZM062	Lower		bis(2-Chloroethoxy)methane	11/28/2001	10	U	59	No
TM02-PZM062	Lower		bis(2-Chloroethyl)ether	11/28/2001	10	U	0.014	No
TM02-PZM062	Lower	60-70	bis(2-Ethylhexyl)phthalate	11/28/2001	10	U	6	No
TM02-PZM062	Lower	60-70	Bromoform	11/28/2001	1	U	3.3	No
TM02-PZM062	Lower	60-70	Cadmium	11/28/2001	0.63	U	5	No
TM02-PZM062	Lower	60-70	Calcium	11/28/2001	114,000		010	No
TM02-PZM062	Lower	60-70	Carbon disulfide	11/28/2001	1	U	810	No
TM02-PZM062	Lower	60-70	Carbon tetrachloride	11/28/2001	1	U	5	No
TM02-PZM062	Lower	60-70	Chlorobenzene	11/28/2001	11	U	100	No
TM02-PZM062	Lower	60-70	Chloroethane	11/28/2001	2	U	21,000	No
TM02-PZM062	Lower	60-70	Chloroform	11/28/2001	1	U	0.22	No
	I Crrion	60-70	Chromium	11/28/2001	2.4	J	100	No
TM02-PZM062 TM02-PZM062	Lower	60-70	Chrysene	11/28/2001	10	U	25	No

West Zone Interval (feet bgs) Parameter Date (wg/L) Flag AL PAL (wg/L) Exceedence?			G	Sparrows Point, Mary	ianu				
1905_PZM062	Well	Zone		Parameter	-		Flag		
TMOS_PZM062	TM02-PZM062	Lower	· 0 /	cis-1.3-Dichloropropene	11/28/2001	1	U		No
TMO2_PZM062		+		* * *	-	0.86	U	6	
TMO2-PZMI062 Lower 69-70 Diethylphthalate 11/28/2001 10 U 15,000 No TMO2-PZMI062 Lower 69-70 Die-Actylphthalate 11/28/2001 10 U 200 No TMO2-PZMI062 Lower 69-70 Diethylphthalate 11/28/2001 10 U 200 No TMO2-PZMI062 Lower 69-70 Plothylphthalate 11/28/2001 1.0 U 200 No TMO2-PZMI062 Lower 69-70 Plotocran 11/28/2001 1.4 J 800 No TMO2-PZMI062 Lower 69-70 Hexachteroschere 11/28/2001 10 U 1.1 No TMO2-PZMI062 Lower 69-70 Hexachteroschepertalidine 11/28/2001 50 U 50 No TMO2-PZMI062 Lower 69-70 Ileachteroschepertalidine 11/28/2001 50 U 50 No TMO2-PZMI062 Lower 69-70 Ileachteroschare 1	TM02-PZM062	Lower	60-70	Copper	11/28/2001	6.8	В	1,300	No
13002-PZM062 Lower 69-70 Dis-butylphthalate 11/28/2001 10 U 900 No 13002-PZM062 Lower 69-70 Dis-butylphthalate 11/28/2001 1 U 700 No 13002-PZM062 Lower 69-70 Dis-butylphthalate 11/28/2001 1 U 700 No No 13002-PZM062 Lower 69-70 Placenthers 11/28/2001 1 U 700 No No 13002-PZM062 Lower 69-70 Placenthers 11/28/2001 1 U 700 No No 13002-PZM062 Lower 69-70 Hexachlorobutadiene 11/28/2001 10 U 1 No 13002-PZM062 Lower 69-70 Hexachlorobutadiene 11/28/2001 10 U 0.14 No 13002-PZM062 Lower 69-70 Hexachlorobutadiene 11/28/2001 10 U 0.14 No 13002-PZM062 Lower 69-70 Hexachlorobutadiene 11/28/2001 10 U 0.14 No 13002-PZM062 Lower 69-70 Hexachlorobutadiene 11/28/2001 10 U 0.15 No 13002-PZM062 Lower 69-70 Hodrol (1.23-cd)pyrene 11/28/2001 10 U 0.25 No 13002-PZM062 Lower 69-70 Hodrol (1.23-cd)pyrene 11/28/2001 10 U 0.25 No 13002-PZM062 Lower 69-70 Hodrol (1.23-cd)pyrene 11/28/2001 10 U 78 No 13002-PZM062 Lower 69-70 Hodrol (1.23-cd)pyrene 11/28/2001 10 U 78 No 13002-PZM062 Lower 69-70 Magnesium 11/28/2001 10 U 78 No 13002-PZM062 Lower 69-70 Magnesium 11/28/2001 10 U 78 No 13002-PZM062 Lower 69-70 Magnesium 11/28/2001 10 U 0.14 No No 13002-PZM062 Lower 69-70 No Magnesium 11/28/2001 10 U 0.14 No No 13002-PZM062 Lower 69-70 No Magnesium 11/28/2001 10 U 0.14 No No 13002-PZM062 Lower 69-70 No No 13002-PZM062 Low	TM02-PZM062	Lower	60-70	Dibenz[a,h]anthracene	11/28/2001	10	U	0.025	No
13023-27M062 Lower 60-70 Brischstylphilater 11/28/2001 1 U 200 No 13002-27M062 Lower 60-70 Brischer 11/28/2001 1 U 700 No No 13002-27M062 Lower 60-70 Brischer 11/28/2001 1,4 J 800 No 13002-27M062 Lower 60-70 Brischer 11/28/2001 1,4 J 800 No 13002-27M062 Lower 60-70 Brischer 11/28/2001 10 U 1 No 13002-27M062 Lower 60-70 Hetachforochromene 11/28/2001 10 U 1 No 13002-27M062 Lower 60-70 Hetachforochromene 11/28/2001 10 U 0.14 No 13002-27M062 Lower 60-70 Hetachforochromene 11/28/2001 10 U 0.33 No 13002-27M062 Lower 60-70 Hetachforochromene 11/28/2001 10 U 0.33 No 13002-27M062 Lower 60-70 Hetachforochromene 11/28/2001 10 U 0.35 No 13002-27M062 Lower 60-70 Hondon(1,2,3-cd)prene 11/28/2001 10 U 0.35 No 13002-27M062 Lower 60-70 Ison 11/28/2001 10 U 78 No 13002-27M062 Lower 60-70 Ison 11/28/2001 10 U 78 No 13002-27M062 Lower 60-70 Magnesium 11/28/2001 18 U 15 No 13002-27M062 Lower 60-70 Magnese 11/28/2001 18 U 15 No 13002-27M062 Lower 60-70 Magnese 11/28/2001 23 U 5 No 13002-27M062 Lower 60-70 Magnese 11/28/2001 23 U 5 No 13002-27M062 Lower 60-70 Magnese 11/28/2001 24 U 5 No 13002-27M062 Lower 60-70 Magnese 11/28/2001 24 U 5 No 13002-27M062 Lower 60-70 Methylane chloride 11/28/2001 25 U 5 No 13002-27M062 Lower 60-70 Nickel 11/28/2001 2 U 5 No 13002-27M062 Lower 60-70 Nickel 11/28/2001 3 U 5 No 13002-27M062 Lower 60-70 Methylane chloride 11/28/2001 5 U 1 No 13002-27M062 Lower 60-70 Methylane chloride 11/28/2001 5 U 5 No 13002-27M062 Lower 60-70 Methylane chloride 11/28/2001 5 U 1 No 13002-27M062 Lower 60-70 Methylane chloride 11/28/2001 5 U 1 No No 13002-27M062	TM02-PZM062	Lower	60-70	Diethylphthalate	11/28/2001	10	U	15,000	No
TMO2_PZM062	TM02-PZM062	Lower	60-70	Di-n-butylphthalate	11/28/2001	10	U	900	No
1302_FZM062	TM02-PZM062	Lower	60-70	Di-n-octylphthalate	11/28/2001	10	U	200	No
TMO2-PZM062	TM02-PZM062	Lower	60-70	Ethylbenzene	11/28/2001	1	U	700	No
TMO2-PZM062	TM02-PZM062	Lower	60-70	Fluoranthene	11/28/2001	1.4	J	800	No
TMO2-PZM062	TM02-PZM062	Lower	60-70	Fluorene	11/28/2001	2.1	J	290	No
TMO2-PZM062	TM02-PZM062	Lower	60-70	Hexachlorobenzene	11/28/2001	10		1	No
TMO2-PZM062 Lower 60-70 Hexashbrorethame 11/28/2001 10 U 0.25 No TM02-PZM062 Lower 60-70 Iron 11/28/2001 10 U 0.25 No TM02-PZM062 Lower 60-70 Iron 11/28/2001 10 U 7.500 14,000 No TM02-PZM062 Lower 60-70 Iron 11/28/2001 10 U 78 No TM02-PZM062 Lower 60-70 Iron 11/28/2001 10 U 78 No TM02-PZM062 Lower 60-70 Magnesium 11/28/2001 18 U 15 No TM02-PZM062 Lower 60-70 Magnesium 11/28/2001 28,400 No No TM02-PZM062 Lower 60-70 Magnesium 11/28/2001 329 430 No No TM02-PZM062 Lower 60-70 Mercury 11/28/2001 0.054 U 2 No TM02-PZM062 Lower 60-70 Nethylene chloride 11/28/2001 0.054 U 2 No TM02-PZM062 Lower 60-70 Nickel 11/28/2001 3.8 J 390 No TM02-PZM062 Lower 60-70 Nickel 11/28/2001 3.8 J 390 No TM02-PZM062 Lower 60-70 Nickel 11/28/2001 3.8 J 390 No TM02-PZM062 Lower 60-70 Nickel 11/28/2001 3.8 J 390 No TM02-PZM062 Lower 60-70 Nickel 11/28/2001 10 U 0.14 No TM02-PZM062 Lower 60-70 Pentachlorophenol 11/28/2001 50 U 1 No TM02-PZM062 Lower 60-70 Pentachlorophenol 11/28/2001 50 U 1 No TM02-PZM062 Lower 60-70 Pentachlorophenol 11/28/2001 50 U 1 No TM02-PZM062 Lower 60-70 Pentachlorophenol 11/28/2001 50 U 1 No TM02-PZM062 Lower 60-70 Pentachlorophenol 11/28/2001 50 U 1 No TM02-PZM062 Lower 60-70 Silver 11/28/2001 50 U U 120 No TM02-PZM062 Lower 60-70 Silver 11/28/2001 50 U U 120 No TM02-PZM062 Lower 60-70 Silver 11/28/2001 50 U U 120 No TM02-PZM062 Lower 60-70 Silver 11/28/2001 10 U 10 No No TM02-PZM062 Lower 60-70 Silver 11/28/2001 10 U 10 No No TM02-PZM062 Lower 60-70 No Tm02-PZM062 Lower 60-70 No Tm02-PZM062 Lower 60-70 No Tm02-PZM062 Lower 60-70 No	TM02-PZM062	Lower	60-70	Hexachlorobutadiene	11/28/2001	10	U	0.14	No
TMO2-PZM062 Lower 60-70 Indeno[1,2,3-ed]pyrene 11/28/2001 10 U 0.25 No	TM02-PZM062	Lower		, i					
TMO2-PZM062									
TM02-PZM062	TM02-PZM062			-17	_		U	0.25	No
TMO2-PZM062				Iron					No
TMO2-PZM062				1					
IMO2-PZM062	TM02-PZM062	Lower			11/28/2001		U	15	No
TM02-PZM062	TM02-PZM062		60-70	Č	11/28/2001				No
TMO2-PZM062		Lower		_		329		430	
TM02-PZM062									
TM02-PZM062				i			U		
TM02-PZM062		+		1					
TM02-PZM062		1							
TM02-PZM062									
TM02-PZM062				*				1	
TM02-PZM062							J		_
TM02-PZM062								5,800	
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TM02-PZM062		1		•					
TM02-PZM062									
TM02-PZM062							U	94	
TM02-PZM062							* * *	_	
TM02-PZM062		+							
TM02-PZM062							U		
TM02-PZM062 Lower 60-70 trans-1,3-Dichloropropene 11/28/2001 1 U No TM02-PZM062 Lower 60-70 Trichloroethene 11/28/2001 2 5 No TM02-PZM062 Lower 60-70 Vanadium 11/28/2001 19.5 J 86 No TM02-PZM062 Lower 60-70 Vinyl chloride 11/28/2001 2 U 2 No TM02-PZM062 Lower 60-70 Xylenes 11/28/2001 3.7 10,000 No TM02-PZM062 Lower 60-70 Zinc 11/28/2001 4 B 6,000 No TM03-PZM004 Shallow 5-15 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No							T 7		
TM02-PZM062 Lower 60-70 Trichloroethene 11/28/2001 2 5 No TM02-PZM062 Lower 60-70 Vanadium 11/28/2001 19.5 J 86 No TM02-PZM062 Lower 60-70 Vinyl chloride 11/28/2001 2 U 2 No TM02-PZM062 Lower 60-70 Xylenes 11/28/2001 3.7 10,000 No TM02-PZM062 Lower 60-70 Zinc 11/28/2001 4 B 6,000 No TM03-PZM004 Shallow 5-15 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,2-Dichloroethane 10/1/2001 1 U 7 <t< td=""><td></td><td>+</td><td>1</td><td> ,</td><td></td><td></td><td></td><td>100</td><td></td></t<>		+	1	,				100	
TM02-PZM062 Lower 60-70 Vanadium 11/28/2001 19.5 J 86 No TM02-PZM062 Lower 60-70 Vinyl chloride 11/28/2001 2 U 2 No TM02-PZM062 Lower 60-70 Xylenes 11/28/2001 3.7 10,000 No TM02-PZM062 Lower 60-70 Zinc 11/28/2001 4 B 6,000 No TM03-PZM004 Shallow 5-15 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2-Ji-Trichlorobenzene 10/1/2001 10 U							U	-	
TM02-PZM062 Lower 60-70 Vinyl chloride 11/28/2001 2 U 2 No TM02-PZM062 Lower 60-70 Xylenes 11/28/2001 3.7 10,000 No TM02-PZM062 Lower 60-70 Zinc 11/28/2001 4 B 6,000 No TM03-PZM004 Shallow 5-15 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2-Trichlorobenzene 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td></td> <td></td>							T		
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TM02-PZM062 Lower 60-70 Zinc 11/28/2001 4 B 6,000 No TM03-PZM004 Shallow 5-15 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 5.0 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2-Hrichloroebnzene 10/1/2001 10 U 70 No TM03-PZM004 Shallow 5-15 1,2-Dichloroebnzene 10/1/2001 10 U 600 No TM03-PZM004 Shallow 5-15 1,2-Dichloroebnzene 10/1/2001 <td></td> <td>+</td> <td></td> <td>•</td> <td></td> <td></td> <td>U</td> <td></td> <td></td>		+		•			U		
TM03-PZM004 Shallow 5-15 1,1,1-Trichloroethane 10/1/2001 1 U 200 No TM03-PZM004 Shallow 5-15 1,1,2,2-Tetrachloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2,4-Trichlorobenzene 10/1/2001 10 U 70 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene <t< td=""><td></td><td></td><td></td><td>*</td><td></td><td></td><td>R</td><td></td><td></td></t<>				*			R		
TM03-PZM004 Shallow 5-15 1,1,2,2-Tetrachloroethane 10/1/2001 1 U 0.076 No TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 70 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM03-PZM004 Shallow 5-15 1,2-Dichloropropane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/									
TM03-PZM004 Shallow 5-15 1,1,2-Trichloroethane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,1-Dichloroethane 10/1/2001 1 U 2.7 No TM03-PZM004 Shallow 5-15 1,2,4-Trichlorobenzene 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 70 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,2-Dichloropropane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001<		+							
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TM03-PZM004 Shallow 5-15 1,1-Dichloroethene 10/1/2001 1 U 7 No TM03-PZM004 Shallow 5-15 1,2,4-Trichlorobenzene 10/1/2001 10 U 70 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM03-PZM004 Shallow 5-15 1,2-Dichloropropane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4-G-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 <				7 7					
TM03-PZM004 Shallow 5-15 1,2,4-Trichlorobenzene 10/1/2001 10 U 70 No TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM03-PZM004 Shallow 5-15 1,2-Dichloropropane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001		+							
TM03-PZM004 Shallow 5-15 1,2-Dichlorobenzene 10/1/2001 10 U 600 No TM03-PZM004 Shallow 5-15 1,2-Dichloroptenane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichloroptenane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dimitrophenol 10/1/2001 <t< td=""><td></td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		+							
TM03-PZM004 Shallow 5-15 1,2-Dichloroethane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,2-Dichloropropane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 10 U No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4-G-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dimitrophenol 10/1/2001		+							
TM03-PZM004 Shallow 5-15 1,2-Dichloropropane 10/1/2001 1 U 5 No TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 10 U No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4-G-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dimitrophenol 10/1/2001 50 U 39 No				,					
TM03-PZM004 Shallow 5-15 1,3-Dichlorobenzene 10/1/2001 10 U No TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4-G-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dimitrophenol 10/1/2001 50 U 39 No					_				
TM03-PZM004 Shallow 5-15 1,4-Dichlorobenzene 10/1/2001 10 U 75 No TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dinitrophenol 10/1/2001 50 U 39 No				1 1					
TM03-PZM004 Shallow 5-15 2,4,5-Trichlorophenol 10/1/2001 10 U 1,200 No TM03-PZM004 Shallow 5-15 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dinitrophenol 10/1/2001 50 U 39 No				·				75	
TM03-PZM004 Shallow 5-15 2,4,6-Trichlorophenol 10/1/2001 10 U 4 No TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dinitrophenol 10/1/2001 50 U 39 No				·	-				
TM03-PZM004 Shallow 5-15 2,4-Dichlorophenol 10/1/2001 10 U 46 No TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dinitrophenol 10/1/2001 50 U 39 No									
TM03-PZM004 Shallow 5-15 2,4-Dimethylphenol 10/1/2001 3.6 J 360 No TM03-PZM004 Shallow 5-15 2,4-Dinitrophenol 10/1/2001 50 U 39 No									
TM03-PZM004 Shallow 5-15 2,4-Dinitrophenol 10/1/2001 50 U 39 No							_		
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		Screen	Sparrows Point, Mary					
Well	Zone	Interval	Parameter	Sample Date	Result (ug/L)	Flag	PAL (ug/L)	PAL Exceedance?
TM03-PZM004	Shallow	(feet bgs) 5-15	2,6-Dinitrotoluene	10/1/2001	10	U	0.048	No
TM03-PZM004	Shallow		2-Butanone (MEK)	10/1/2001	5	U	5,600	No
TM03-PZM004	Shallow	5-15	2-Chloronaphthalene	10/1/2001	10	U	750	No
TM03-PZM004	Shallow	5-15	2-Chlorophenol	10/1/2001	10	U	91	No
TM03-PZM004	Shallow	5-15	2-Hexanone	10/1/2001	5	U	38	No
TM03-PZM004	Shallow		2-Methylnaphthalene	10/1/2001	38		36	Yes
TM03-PZM004	Shallow	5-15	2-Methylphenol	10/1/2001	1.5	J	930	No
TM03-PZM004	Shallow	5-15	3.3'-Dichlorobenzidine	10/1/2001	50	U	0.12	No
TM03-PZM004	Shallow	5-15	4-Methyl-2-pentanone (MIBK)	10/1/2001	5	U	1,200	No
TM03-PZM004	Shallow	5-15	Acenaphthene	10/1/2001	7.1	J	530	No
TM03-PZM004	Shallow	5-15	Acenaphthylene	10/1/2001	18		530	No
TM03-PZM004	Shallow	5-15	Acetone	10/1/2001	2.7	J	14,000	No
TM03-PZM004	Shallow	5-15	Anthracene	10/1/2001	12		1,800	No
TM03-PZM004	Shallow	5-15	Antimony	10/1/2001	4.1	U	6	No
TM03-PZM004	Shallow	5-15	Arsenic	10/1/2001	7.4	J	10	No
TM03-PZM004	Shallow	5-15	Barium	10/1/2001	30.5	U	2,000	No
TM03-PZM004	Shallow	5-15	Benz[a]anthracene	10/1/2001	10		0.03	Yes
TM03-PZM004	Shallow	5-15	Benzene	10/1/2001	1	U	5	No
TM03-PZM004	Shallow	5-15	Benzo[a]pyrene	10/1/2001	7.5	J	0.2	Yes
TM03-PZM004	Shallow	5-15	Benzo[b]fluoranthene	10/1/2001	7.8	J	0.25	Yes
TM03-PZM004	Shallow	5-15	Benzo[g,h,i]perylene	10/1/2001	6.7	J		No
TM03-PZM004	Shallow	5-15	Benzo[k]fluoranthene	10/1/2001	6.8	J	2.5	Yes
TM03-PZM004	Shallow	5-15	Beryllium	10/1/2001	1.6	U	4	No
TM03-PZM004	Shallow	5-15	bis(2-Chloroethoxy)methane	10/1/2001	10	U	59	No
TM03-PZM004	Shallow	5-15	bis(2-Chloroethyl)ether	10/1/2001	10	U	0.014	No
TM03-PZM004	Shallow	5-15	bis(2-Ethylhexyl)phthalate	10/1/2001	10	U	6	No
TM03-PZM004	Shallow	5-15	Bromoform	10/1/2001	1	U	3.3	No
TM03-PZM004	Shallow	5-15	Cadmium	10/1/2001	4.1	J	5	No
TM03-PZM004	Shallow	5-15	Carbon disulfide	10/1/2001	1	U	810	No
TM03-PZM004	Shallow	5-15	Carbon tetrachloride	10/1/2001	1	U	5	No
TM03-PZM004	Shallow	5-15	Chlorobenzene	10/1/2001	1	U	100	No
TM03-PZM004	Shallow	5-15	Chloroethane	10/1/2001	2	U	21,000	No
TM03-PZM004	Shallow	5-15	Chloroform	10/1/2001	30		0.22	Yes
TM03-PZM004	Shallow	5-15	Chromium	10/1/2001	30.5		100	No
TM03-PZM004	Shallow	5-15	Chrysene	10/1/2001	11		25	No
TM03-PZM004	Shallow	5-15	cis-1,3-Dichloropropene	10/1/2001	1	U		No
TM03-PZM004	Shallow	5-15	Cobalt	10/1/2001	1.6	J	6	No
TM03-PZM004	Shallow	5-15	Copper	10/1/2001	28		1,300	No
TM03-PZM004	Shallow		Cyanide, amenable	10/1/2001	430	J	200	Yes
TM03-PZM004	Shallow	5-15	Dibenz[a,h]anthracene	10/1/2001	2.3	J	0.025	Yes
TM03-PZM004	Shallow	5-15	Diethylphthalate	10/1/2001	10	U	15,000	No
TM03-PZM004	Shallow	5-15	Di-n-butylphthalate	10/1/2001	10	U	900	No
TM03-PZM004	Shallow	5-15	Di-n-octylphthalate	10/1/2001	10	U	200	No
TM03-PZM004	Shallow	5-15	Ethylbenzene	10/1/2001	1	U	700	No
TM03-PZM004	Shallow	5-15	Fluoranthene	10/1/2001	34	<u> </u>	800	No
TM03-PZM004	Shallow	5-15	Fluorene	10/1/2001	34	**	290	No
TM03-PZM004	Shallow	5-15	Hexachlorobenzene	10/1/2001	10	U	1	No
TM03-PZM004	Shallow	5-15	Hexachlorobutadiene	10/1/2001	10	U	0.14	No
TM03-PZM004	Shallow	5-15	Hexachlorocyclopentadiene	10/1/2001	50	U	50	No
TM03-PZM004	Shallow	5-15	Hexachloroethane	10/1/2001	10	U	0.33	No
TM03-PZM004	Shallow	5-15	Indeno[1,2,3-cd]pyrene	10/1/2001	6.5	J	0.25	Yes
TM03-PZM004	Shallow	5-15	Iron	10/1/2001	13,400	TT	14,000	No
TM03-PZM004	Shallow	5-15	Isophorone	10/1/2001	10	U	78	No
TM03-PZM004	Shallow	5-15	Lead	10/1/2001	232	TT	15	Yes
TM03-PZM004	Shallow	5-15	Mercury Mathylana ablasida	10/1/2001	0.23	U	2	No
	Shallow	5-15	Methylene chloride	10/1/2001	2	U	5	No
TM03-PZM004		E 1 E	Monhtholono	10/1/2001				
TM03-PZM004 TM03-PZM004	Shallow	5-15	Naphthalene Nickel	10/1/2001	240	т	0.17	Yes
TM03-PZM004		5-15 5-15 5-15	Naphthalene Nickel Nitrobenzene	10/1/2001 10/1/2001 10/1/2001	5.4 10	J U	0.17 390 0.14	Yes No No

	Sparrows Point, Maryland								
Wall	Zana	Screen	Downworton	Sample	Result	Flag	PAL	PAL	
Well	Zone	Interval	Parameter	Date	(ug/L)	riag	(ug/L)	Exceedance?	
TM03-PZM004	Shallow	(feet bgs) 5-15	Phenanthrene	10/1/2001	75			No	
TM03-PZM004	Shallow	5-15	Phenol	10/1/2001	6.9	J	5,800	No	
TM03-PZM004	Shallow	5-15	Pyrene	10/1/2001	27	J	120	No	
TM03-PZM004	Shallow	5-15	Selenium	10/1/2001	3.2	U	50	No	
TM03-PZM004	Shallow	5-15	Silver	10/1/2001	0.75	J	94	No	
TM03-PZM004	Shallow	5-15	Tetrachloroethene	10/1/2001	1	U	5	No	
TM03-PZM004	Shallow	5-15	Thallium	10/1/2001	5.7	U	2	No	
TM03-PZM004	Shallow	5-15	Toluene	10/1/2001	1	U	1,000	No	
TM03-PZM004	Shallow	5-15	trans-1,2-Dichloroethene	10/1/2001	1	U	100	No	
TM03-PZM004	Shallow	5-15	trans-1.3-Dichloropropene	10/1/2001	1	U	100	No	
TM03-PZM004	Shallow	5-15	Trichloroethene	10/1/2001	1	U	5	No	
TM03-PZM004	Shallow	5-15	Vanadium	10/1/2001	63.4		86	No	
TM03-PZM004	Shallow	5-15	Vinyl chloride	10/1/2001	2	U	2	No	
TM03-PZM004	Shallow	5-15	Xylenes	10/1/2001	3	U	10,000	No	
TM03-PZM004	Shallow	5-15	Zinc	10/1/2001	293		6,000	No	
TM03-PZM004	Shallow	5-15	1,1,1-Trichloroethane	11/30/2001	1	U	200	No	
TM03-PZM004	Shallow	5-15	1,1,2,2-Tetrachloroethane	11/30/2001	1	U	0.076	No	
TM03-PZM004	Shallow	5-15	1,1,2-Trichloroethane	11/30/2001	1	U	5	No	
TM03-PZM004	Shallow	5-15	1,1-Dichloroethane	11/30/2001	1	U	2.7	No	
TM03-PZM004	Shallow	5-15	1,1-Dichloroethene	11/30/2001	1	U	7	No	
TM03-PZM004	Shallow	5-15	1,2,4-Trichlorobenzene	11/30/2001	10	U	70	No	
TM03-PZM004	Shallow	5-15	1,2-Dichlorobenzene	11/30/2001	10	U	600	No	
TM03-PZM004	Shallow	5-15	1,2-Dichloroethane	11/30/2001	1	U	5	No	
TM03-PZM004	Shallow	5-15	1,2-Dichloropropane	11/30/2001	1	U	5	No	
TM03-PZM004	Shallow	5-15	1.3-Dichlorobenzene	11/30/2001	10	U		No	
TM03-PZM004	Shallow	5-15	1,4-Dichlorobenzene	11/30/2001	10	U	75	No	
TM03-PZM004	Shallow	5-15	2,2'-Oxybis(1-chloropropane)	11/30/2001	20	U	0.36	No	
TM03-PZM004	Shallow	5-15	2,4,5-Trichlorophenol	11/30/2001	10	U	1,200	No	
TM03-PZM004	Shallow	5-15	2,4,6-Trichlorophenol	11/30/2001	10	U	4	No	
TM03-PZM004	Shallow	5-15	2,4-Dichlorophenol	11/30/2001	10	U	46	No	
TM03-PZM004	Shallow	5-15	2,4-Dimethylphenol	11/30/2001	3.6	J	360	No	
TM03-PZM004	Shallow	5-15	2,4-Dinitrophenol	11/30/2001	50	U	39	No	
TM03-PZM004	Shallow	5-15	2,4-Dinitrotoluene	11/30/2001	10	U	0.24	No	
TM03-PZM004	Shallow	5-15	2,6-Dinitrotoluene	11/30/2001	10	U	0.048	No	
TM03-PZM004	Shallow	5-15	2-Butanone (MEK)	11/30/2001	5	U	5,600	No	
TM03-PZM004	Shallow	5-15	2-Chloronaphthalene	11/30/2001	10	U	750	No	
TM03-PZM004	Shallow	5-15	2-Chlorophenol	11/30/2001	10	U	91	No	
TM03-PZM004	Shallow	5-15	2-Hexanone	11/30/2001	5	U	38	No	
TM03-PZM004	Shallow	5-15	2-Methylnaphthalene	11/30/2001	38		36	Yes	
TM03-PZM004	Shallow	5-15	2-Methylphenol	11/30/2001	1.5	J	930	No	
TM03-PZM004	Shallow	5-15	3,3'-Dichlorobenzidine	11/30/2001	50	U	0.12	No	
TM03-PZM004	Shallow	5-15	4-Methyl-2-pentanone (MIBK)	11/30/2001	5	U	1,200	No	
TM03-PZM004	Shallow	5-15	4-Methylphenol	11/30/2001	8.3	J	1,900	No	
TM03-PZM004	Shallow	5-15	Acenaphthene	11/30/2001	7.1	J	530	No	
TM03-PZM004	Shallow	5-15	Acenaphthylene	11/30/2001	18		530	No	
TM03-PZM004	Shallow	5-15	Acetone	11/30/2001	2.7	J	14,000	No	
TM03-PZM004	Shallow	5-15	Anthracene	11/30/2001	12		1,800	No	
TM03-PZM004	Shallow	5-15	Antimony	11/30/2001	4.2	В	6	No	
TM03-PZM004	Shallow	5-15	Aroclor-1016	11/30/2001	1	U		No	
TM03-PZM004	Shallow	5-15	Aroclor-1221	11/30/2001	1	U		No	
TM03-PZM004	Shallow	5-15	Aroclor-1232	11/30/2001	1	U		No	
TM03-PZM004	Shallow	5-15	Aroclor-1242	11/30/2001	1	U		No	
TM03-PZM004	Shallow	5-15	Aroclor-1248	11/30/2001	1	U	ļ	No	
TM03-PZM004	Shallow	5-15	Aroclor-1254	11/30/2001	1	U		No	
TM03-PZM004	Shallow	5-15	Aroclor-1260	11/30/2001	1	U	ļ	No	
TM03-PZM004	Shallow	5-15	Arsenic	11/30/2001	7.4	J	10	No	
TM03-PZM004	Shallow	5-15	Barium	11/30/2001	30.5	В	2,000	No	
TM03-PZM004	Shallow	5-15	Benz[a]anthracene	11/30/2001	10	<u> </u>	0.03	Yes	
TM03-PZM004	Shallow	5-15	Benzene	11/30/2001	11	U	5	No	
TM03-PZM004	Shallow	5-15	Benzo[a]pyrene	11/30/2001	7.5	J	0.2	Yes	

		Screen						
Well	Zone	Interval (feet bgs)	Parameter	Sample Date	Result (ug/L)	Flag	PAL (ug/L)	PAL Exceedance?
TM03-PZM004	Shallow	5-15	Benzo[b]fluoranthene	11/30/2001	7.8	J	0.25	Yes
TM03-PZM004	Shallow	5-15	Benzo[g,h,i]perylene	11/30/2001	6.7	J		No
TM03-PZM004	Shallow	5-15	Benzo[k]fluoranthene	11/30/2001	6.8	J	2.5	Yes
TM03-PZM004	Shallow	5-15	Beryllium	11/30/2001	1.6	В	4	No
TM03-PZM004	Shallow	5-15	bis(2-Chloroethoxy)methane	11/30/2001	10	U	59	No
TM03-PZM004	Shallow	5-15	bis(2-Chloroethyl)ether	11/30/2001	10	U	0.014	No
TM03-PZM004	Shallow	5-15	bis(2-Ethylhexyl)phthalate	11/30/2001	10	U	6	No
TM03-PZM004	Shallow	5-15	Bromoform	11/30/2001	1	U	3.3	No
TM03-PZM004	Shallow	5-15	Cadmium	11/30/2001	4.1	J	5	No
TM03-PZM004	Shallow	5-15	Calcium	11/30/2001	89,900			No
TM03-PZM004	Shallow	5-15	Carbon disulfide	11/30/2001	1	U	810	No
TM03-PZM004	Shallow	5-15	Carbon tetrachloride	11/30/2001	1	U	5	No
TM03-PZM004	Shallow	5-15	Chlorobenzene	11/30/2001	1	U	100	No
TM03-PZM004	Shallow	5-15	Chloroethane	11/30/2001	2	U	21,000	No
TM03-PZM004	Shallow	5-15	Chloroform	11/30/2001	30		0.22	Yes
TM03-PZM004	Shallow	5-15	Chromium	11/30/2001	30.5		100	No
TM03-PZM004	Shallow Shallow	5-15 5-15	Chrysene	11/30/2001	11 1	U	25	No No
TM03-PZM004	Shallow	5-15	cis-1,3-Dichloropropene Cobalt	11/30/2001 11/30/2001		J	-	
TM03-PZM004 TM03-PZM004	Shallow	5-15		11/30/2001	1.6	J	6 1,300	No No
TM03-PZM004	Shallow	5-15	Copper Dibenz[a,h]anthracene	11/30/2001	2.3	J	0.025	Yes
TM03-PZM004	Shallow	5-15	Diethylphthalate	11/30/2001	10	U	15,000	No
TM03-PZM004	Shallow	5-15	Di-n-butylphthalate	11/30/2001	10	U	900	No
TM03-PZM004	Shallow	5-15	Di-n-octylphthalate	11/30/2001	10	U	200	No
TM03-PZM004	Shallow	5-15	Ethylbenzene	11/30/2001	1	U	700	No
TM03-PZM004	Shallow	5-15	Fluoranthene	11/30/2001	34		800	No
TM03-PZM004	Shallow	5-15	Fluorene	11/30/2001	34		290	No
TM03-PZM004	Shallow	5-15	Hexachlorobenzene	11/30/2001	10	U	1	No
TM03-PZM004	Shallow	5-15	Hexachlorobutadiene	11/30/2001	10	U	0.14	No
TM03-PZM004	Shallow	5-15	Hexachlorocyclopentadiene	11/30/2001	50	U	50	No
TM03-PZM004	Shallow	5-15	Hexachloroethane	11/30/2001	10	U	0.33	No
TM03-PZM004	Shallow	5-15	Indeno[1,2,3-cd]pyrene	11/30/2001	6.5	J	0.25	Yes
TM03-PZM004	Shallow	5-15	Iron	11/30/2001	13,400		14,000	No
TM03-PZM004	Shallow	5-15	Isophorone	11/30/2001	10	U	78	No
TM03-PZM004	Shallow	5-15	Lead	11/30/2001	232		15	Yes
TM03-PZM004	Shallow	5-15	Magnesium	11/30/2001	885	J		No
TM03-PZM004	Shallow	5-15	Manganese	11/30/2001	496		430	Yes
TM03-PZM004	Shallow	5-15	Mercury	11/30/2001	0.23	В	2	No
TM03-PZM004	Shallow	5-15	Methylene chloride	11/30/2001	2	U	5	No
TM03-PZM004	Shallow	5-15	Naphthalene	11/30/2001	240		0.17	Yes
TM03-PZM004	Shallow	5-15	Nickel	11/30/2001	5.4	J	390	No
TM03-PZM004	Shallow	5-15	Nitrobenzene	11/30/2001	10	U	0.14	No
TM03-PZM004	Shallow	5-15	Pentachlorophenol	11/30/2001	50	U	1	No
TM03-PZM004	Shallow	5-15	Phenanthrene	11/30/2001	75	1	-	No
TM03-PZM004	Shallow	5-15	Phenol	11/30/2001	6.9	J	5,800	No
TM03-PZM004	Shallow	5-15	Potassium	11/30/2001	28,600		100	No
TM03-PZM004	Shallow	5-15	Pyrene	11/30/2001	27	* *	120	No No
TM03-PZM004	Shallow	5-15	Selenium	11/30/2001	3.2	U	50	No No
TM03-PZM004	Shallow	5-15	Silver	11/30/2001	0.75	J	94	No
TM03-PZM004 TM03-PZM004	Shallow Shallow	5-15 5-15	Sodium Tetrachloroethene	11/30/2001 11/30/2001	48,100	U		No No
TM03-PZM004 TM03-PZM004	Shallow	5-15 5-15	Thallium	11/30/2001	5.7	U	5 2	No No
TM03-PZM004	Shallow	5-15	Toluene	11/30/2001	1	U	1,000	No
TM03-PZM004 TM03-PZM004	Shallow	5-15	trans-1,2-Dichloroethene	11/30/2001	1	U	100	No
TM03-PZM004	Shallow	5-15	trans-1,3-Dichloropropene	11/30/2001	1	U	100	No
TM03-PZM004	Shallow	5-15	Trichloroethene	11/30/2001	1	U	5	No
	Shallow	5-15	Vanadium	11/30/2001	63.4	-	86	No
V () 3-PZ V () 4	Shanow	5.15	, anadiani					
TM03-PZM004	Shallow	5-15	Vinyl chloride	11/30/2001	2	11	2	Nο
TM03-PZM004 TM03-PZM004 TM03-PZM004	Shallow Shallow	5-15 5-15	Vinyl chloride Xylenes	11/30/2001 11/30/2001	3	U	10,000	No No

		G	Sparrows Point, Marylar	iu				
XX7_11	7	Screen	D	Sample	Result	T21	PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TM02 DZM027	Intomodiata	(feet bgs) 39.5-49.5	1,1,1-Trichloroethane	10/1/2001	1	U	200	No
TM03-PZM037	Intermediate		1,1,2,2-Tetrachloroethane	10/1/2001	1	U	0.076	No No
TM03-PZM037 TM03-PZM037	Intermediate Intermediate		1,1,2-Trichloroethane	10/1/2001	1	U	5	No
TM03-PZM037	Intermediate		1,1-Dichloroethane	10/1/2001	1	U	2.7	No
TM03-PZM037	Intermediate		1,1-Dichloroethene	10/1/2001	1	U	7	No
TM03-PZM037	Intermediate		1,2,4-Trichlorobenzene	10/1/2001	10	U	70	No
TM03-PZM037	Intermediate	39.5-49.5	1,2-Dichlorobenzene	10/1/2001	10	U	600	No
TM03-PZM037	Intermediate		1.2-Dichloroethane	10/1/2001	10	U	5	No
TM03-PZM037	Intermediate		1,2-Dichloropropane	10/1/2001	1	U	5	No
TM03-PZM037	Intermediate		1,3-Dichlorobenzene	10/1/2001	10	U	3	No
TM03-PZM037	Intermediate		1,4-Dichlorobenzene	10/1/2001	10	U	75	No
TM03-PZM037	Intermediate		2,4,5-Trichlorophenol	10/1/2001	10	U	1,200	No
TM03-PZM037	Intermediate		2,4,6-Trichlorophenol	10/1/2001	10	U	4	No
TM03-PZM037	Intermediate		2,4-Dichlorophenol	10/1/2001	10	U	46	No
TM03-PZM037	Intermediate		2,4-Dimethylphenol	10/1/2001	10	U	360	No
TM03-PZM037	Intermediate		2,4-Dinitrophenol	10/1/2001	50	U	39	No
TM03-PZM037	Intermediate		2,4-Dinitrotoluene	10/1/2001	10	U	0.24	No
TM03-PZM037	Intermediate		2,6-Dinitrotoluene	10/1/2001	10	U	0.048	No
TM03-PZM037 TM03-PZM037	Intermediate		2-Butanone (MEK)	10/1/2001	5	U	5,600	No
TM03-PZM037 TM03-PZM037	Intermediate		2-Chloronaphthalene	10/1/2001	10	U	750	No
TM03-PZM037 TM03-PZM037	Intermediate		2-Chlorophenol	10/1/2001	10	U	91	No No
TM03-PZM037	Intermediate		2-Hexanone	10/1/2001	5	U	38	No
TM03-PZM037	Intermediate		2-Methylnaphthalene	10/1/2001	10	U	36	No
TM03-PZM037	Intermediate		2-Methylphenol	10/1/2001	10	U	930	No
	Intermediate		3,3'-Dichlorobenzidine	1		U		
TM03-PZM037 TM03-PZM037	Intermediate		·	10/1/2001	50	U	0.12 1,200	No No
TM03-PZM037	Intermediate	39.5-49.5	4-Methyl-2-pentanone (MIBK)	10/1/2001 10/1/2001	10	U	530	No
TM03-PZM037	Intermediate	39.5-49.5	Acenaphthylana	10/1/2001	10	U	530	No
TM03-PZM037	Intermediate	39.5-49.5	Acenaphthylene Acetone	10/1/2001	10	U	14,000	No
TM03-PZM037	Intermediate	39.5-49.5	Anthracene	10/1/2001	10	U	1,800	No
TM03-PZM037	Intermediate	39.5-49.5	Antimony	10/1/2001	4.1	U	6	No
TM03-PZM037	Intermediate	39.5-49.5	Arsenic	10/1/2001	30.5	U	10	Yes
TM03-PZM037	Intermediate	39.5-49.5	Barium	10/1/2001	158	J	2,000	No
TM03-PZM037	Intermediate		Benz[a]anthracene	10/1/2001	10	U	0.03	No
TM03-PZM037	Intermediate	39.5-49.5	Benzene	10/1/2001	0.31	J	5	No
TM03-PZM037	Intermediate		Benzo[a]pyrene	10/1/2001	10	U	0.2	No
TM03-PZM037	Intermediate		Benzo[b]fluoranthene	10/1/2001	10	U	0.25	No
TM03-PZM037	Intermediate		Benzo[g,h,i]perylene	10/1/2001	10	U	0.23	No
TM03-PZM037	Intermediate		Benzo[k]fluoranthene	10/1/2001	10	U	2.5	No
TM03-PZM037	Intermediate	39.5-49.5		10/1/2001	2.3	U	4	No
TM03-PZM037	Intermediate		bis(2-Chloroethoxy)methane	10/1/2001	10	U	59	No
TM03-PZM037	Intermediate		bis(2-Chloroethyl)ether	10/1/2001	10	U	0.014	No
TM03-PZM037	Intermediate		bis(2-Ethylhexyl)phthalate	10/1/2001	10	U	6	No
TM03-PZM037	Intermediate	39.5-49.5	Bromoform	10/1/2001	10	U	3.3	No
TM03-PZM037	Intermediate		Cadmium	10/1/2001	0.63	U	5.5	No
TM03-PZM037	Intermediate	39.5-49.5	Carbon disulfide	10/1/2001	1	U	810	No
TM03-PZM037	Intermediate		Carbon tetrachloride	10/1/2001	1	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	Chlorobenzene	10/1/2001	1	U	100	No
TM03-PZM037	Intermediate	39.5-49.5	Chloroethane	10/1/2001	2	U	21,000	No
TM03-PZM037	Intermediate	39.5-49.5	Chloroform	10/1/2001	1	U	0.22	No
TM03-PZM037	Intermediate		Chromium	10/1/2001	5.1		100	No
TM03-PZM037	Intermediate	39.5-49.5	Chrysene	10/1/2001	10	U	25	No
TM03-PZM037	Intermediate		cis-1,3-Dichloropropene	10/1/2001	1	U	23	No
TM03-PZM037	Intermediate		Cobalt	10/1/2001	0.86	U	6	No
TM03-PZM037	Intermediate		Copper	10/1/2001	0.77	U	1,300	No
TM03-PZM037	Intermediate		Cyanide, amenable	10/1/2001	14	K	200	No
TM03-PZM037	Intermediate		Dibenz[a,h]anthracene	10/1/2001	10	U	0.025	No
TM03-PZM037	Intermediate		Diethylphthalate	10/1/2001	10	U	15,000	No
TM03-PZM037	Intermediate		Di-n-butylphthalate	10/1/2001	10	U	900	No
TM03-PZM037	Intermediate		Di-n-octylphthalate	10/1/2001	10	U	200	No
11100 12111007	monnounac	27.2 77.3	2 oct, ipitatiana	10/1/2001	10		200	110

		a	Sparrows Point, Maryla					
*** 11	7	Screen	.	Sample	Result	T-1	PAL	PAL
Well	Zone	Interval	Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TM02 D7M027	Introduction	(feet bgs)	E41-41	10/1/2001	1	11	700	NI-
TM03-PZM037 TM03-PZM037	Intermediate Intermediate	39.5-49.5 39.5-49.5	Ethylbenzene Fluoranthene	10/1/2001	1.1	U J	700 800	No No
TM03-PZM037	Intermediate	39.5-49.5	Fluorene	10/1/2001	0.62	J	290	No
TM03-PZM037	Intermediate		Hexachlorobenzene	10/1/2001	10	U	1	No
TM03-PZM037	Intermediate	39.5-49.5	Hexachlorobutadiene	10/1/2001	10	U	0.14	No
TM03-PZM037	Intermediate		Hexachlorocyclopentadiene	10/1/2001	50	U	50	No
TM03-PZM037	Intermediate		Hexachloroethane	10/1/2001	10	U	0.33	No
TM03-PZM037	Intermediate		Indeno[1,2,3-cd]pyrene	10/1/2001	10	U	0.33	No
TM03-PZM037	Intermediate		Iron	10/1/2001	75,700	U	14,000	Yes
TM03-PZM037	Intermediate	39.5-49.5	Isophorone	10/1/2001	10	U	78	No
TM03-PZM037	Intermediate	39.5-49.5	Lead	10/1/2001	1.8	U	15	No
TM03-PZM037	Intermediate	39.5-49.5	Mercury	10/1/2001	0.054	U	2	No
TM03-PZM037	Intermediate		Methylene chloride	10/1/2001	2	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	Naphthalene	10/1/2001	2.7	J	0.17	Yes
TM03-PZM037	Intermediate	39.5-49.5	Nickel	10/1/2001	2.4	U	390	No
TM03-PZM037	Intermediate	39.5-49.5	Nitrobenzene	10/1/2001	10	U	0.14	No
TM03-PZM037	Intermediate	39.5-49.5	Pentachlorophenol	10/1/2001	50	U	1	No
TM03-PZM037	Intermediate	39.5-49.5	Phenanthrene	10/1/2001	2.5	J		No
TM03-PZM037	Intermediate	39.5-49.5	Phenol	10/1/2001	10	U	5,800	No
TM03-PZM037	Intermediate		Pyrene	10/1/2001	10	U	120	No
TM03-PZM037	Intermediate	39.5-49.5	Selenium	10/1/2001	3.2	U	50	No
TM03-PZM037	Intermediate	39.5-49.5	Silver	10/1/2001	1.1	J	94	No
TM03-PZM037	Intermediate	39.5-49.5	Tetrachloroethene	10/1/2001	1	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	Thallium	10/1/2001	5.7	U	2	No
TM03-PZM037	Intermediate	39.5-49.5	Toluene	10/1/2001	1	U	1,000	No
TM03-PZM037	Intermediate	39.5-49.5	trans-1,2-Dichloroethene	10/1/2001	1	U	100	No
TM03-PZM037	Intermediate		trans-1,3-Dichloropropene	10/1/2001	1	U	100	No
TM03-PZM037	Intermediate	39.5-49.5	Trichloroethene	10/1/2001	1	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	Vanadium	10/1/2001	2.9	J	86	No
TM03-PZM037	Intermediate		Vinyl chloride	10/1/2001	2	U	2	No
TM03-PZM037	Intermediate		Xylenes	10/1/2001	3	U	10,000	No
TM03-PZM037	Intermediate		Zinc	10/1/2001	4.3	U	6,000	No
TM03-PZM037	Intermediate	39.5-49.5	1,1,1-Trichloroethane	11/30/2001	1	U	200	No
TM03-PZM037	Intermediate	39.5-49.5	1,1,2,2-Tetrachloroethane	11/30/2001	1	U	0.076	No
TM03-PZM037	Intermediate	39.5-49.5	1,1,2-Trichloroethane	11/30/2001	1	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	1,1-Dichloroethane	11/30/2001	1	U	2.7	No
TM03-PZM037	Intermediate	39.5-49.5	1,1-Dichloroethene	11/30/2001	1	U	7	No
TM03-PZM037	Intermediate	39.5-49.5	1,2,4-Trichlorobenzene	11/30/2001	10	U	70	No
TM03-PZM037	Intermediate	39.5-49.5	1,2-Dichlorobenzene	11/30/2001	10	U	600	No
TM03-PZM037	Intermediate	39.5-49.5	1,2-Dichloroethane	11/30/2001	1	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	1,2-Dichloropropane	11/30/2001	1	U	5	No
TM03-PZM037	Intermediate	39.5-49.5	1,3-Dichlorobenzene	11/30/2001	10	U		No
TM03-PZM037	Intermediate	39.5-49.5	1,4-Dichlorobenzene	11/30/2001	10	U	75	No
TM03-PZM037	Intermediate	39.5-49.5	2,2'-Oxybis(1-chloropropane)	11/30/2001	20	U	0.36	No
TM03-PZM037	Intermediate	39.5-49.5	2,4,5-Trichlorophenol	11/30/2001	10	U	1,200	No
TM03-PZM037	Intermediate	39.5-49.5	2,4,6-Trichlorophenol	11/30/2001	10	U	4	No
TM03-PZM037	Intermediate	39.5-49.5	2,4-Dichlorophenol	11/30/2001	10	U	46	No
TM03-PZM037	Intermediate	39.5-49.5	2,4-Dimethylphenol	11/30/2001	10	U	360	No
TM03-PZM037	Intermediate		2,4-Dinitrophenol	11/30/2001	50	U	39	No
TM03-PZM037	Intermediate		2,4-Dinitrotoluene	11/30/2001	10	U	0.24	No
TM03-PZM037	Intermediate		2,6-Dinitrotoluene	11/30/2001	10	U	0.048	No
TM03-PZM037	Intermediate		2-Butanone (MEK)	11/30/2001	5	U	5,600	No
TM03-PZM037	Intermediate		2-Chloronaphthalene	11/30/2001	10	U	750	No
TM03-PZM037	Intermediate		2-Chlorophenol	11/30/2001	10	U	91	No
TM03-PZM037	Intermediate		2-Hexanone	11/30/2001	5	U	38	No
TM03-PZM037	Intermediate		2-Methylnaphthalene	11/30/2001	10	U	36	No
TM03-PZM037	Intermediate		2-Methylphenol	11/30/2001	10	U	930	No
TM03-PZM037	Intermediate		3,3'-Dichlorobenzidine	11/30/2001	50	U	0.12	No
TM03-PZM037	Intermediate		4-Methyl-2-pentanone (MIBK)	11/30/2001	5	U	1,200	No
TM03-PZM037	Intermediate	39.5-49.5	4-Methylphenol	11/30/2001	10	U	1,900	No

Well Zone Interval (red bgs) Parameter (red bgs) Sample (red bgs) Result (red bgs) PAL (red bgs) Exceedance? TM03-PZM037 Intermediate 39.5-49.5 Acenaphthene 11/30/2001 10 U 530 No TM03-PZM037 Intermediate 39.5-49.5 Acenaphthylene 11/30/2001 10 U 530 No TM03-PZM037 Intermediate 39.5-49.5 Anthracene 11/30/2001 10 U 1,800 No TM03-PZM037 Intermediate 39.5-49.5 Anthracene 11/30/2001 1 U 1,800 No TM03-PZM037 Intermediate 39.5-49.5 Ancolor-1212 11/30/2001 1 U No No TM03-PZM037 Intermediate 39.5-49.5 Aroclor-1242 11/30/2001 1 U No TM03-PZM037 Intermediate 39.5-49.5 Aroclor-1242 11/30/2001 1 U No TM03-PZM037 Intermediate 39.5-49.5 Aroclor-1244			a	Sparrows Point, Marylai	10				
TM03-PZM037 Intermediate 39.4-95 Accessphilence 11/30/2001 10 0 3.30 No.	XX7-11	7	Screen	D	Sample	Result	T21	PAL	PAL
No. P. P. P. P. P. P. P.	Well	Zone		Parameter	Date	(ug/L)	Flag	(ug/L)	Exceedance?
TAM03-P2M037 Intermediate 30-5-95 Accomphilylene 1,170/2001 10 U 1,500 No TAM03-P2M037 Intermediate 30-5-95 Anthracene 1,170/2001 10 U 1,500 No TAM03-P2M037 Intermediate 30-5-95 Anthracene 1,170/2001 10 U 1,500 No TAM03-P2M037 Intermediate 30-5-95 Anthracene 1,170/2001 1 U U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-121 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-122 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-123 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-123 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-124 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-124 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-124 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-124 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-124 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Anchor-124 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Barriam 1,170/2001 1 U No No TAM03-P2M037 Intermediate 30-5-95 Barriam 1,170/2001 1 U U No No TAM03-P2M037 Intermediate 30-5-95 Beroalphytenee 1,170/2001 0 U U U V No No TAM03-P2M037 Intermediate 30-5-95 Beroalphytenee 1,170/2001 1 U U U U No No TAM03-P2M037 Intermediate 30-5-95 Beroalphytenee 1,170/2001 1 U U U U V No No TAM03-P2M037 Intermediate 30-5-95 Beroalphytenee 1,170/2001 1 U U U U V No No TAM03-P2M037 Intermediate 30-5-95 Beroalphytenee 1,170/2001 1 U U U U U U U U	TM02 D7M027	T-4	· ·	A Leth	11/20/2001	10	7.7		NI-
TM03-P2M037 Intermediate 30-5-9.5 Acatone 11/30/2001 10 U 14/000 No TM03-P2M037 Intermediate 30-5-9.5 Authrone 11/30/2001 4.1 U 6.0 No TM03-P2M037 Intermediate 39-5-9.5 Authrone 11/30/2001 4.1 U 6 No TM03-P2M037 Intermediate 39-5-9.5 Author-12/2 11/30/2001 1 U No TM03-P2M037 Intermediate 39-5-9.5 Author-12/2 11/30/2001 3.0 No TM03-P2M03				*					
TMO3-PZM037 Intermediate 395-949 Authorscene 1170/2001 10 U 1,800 No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U No No TMO3-PZM037 Intermediate 395-949 Authors 1270/2001 1 U 0.03 No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 138 U 2,000 No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.2 No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.2 No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.2 No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.2 No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.2 No No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.1 No No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.0 No No TMO3-PZM037 Intermediate 395-949 Berudal pulmtrancene 1170/2001 10 U 0.0 No No TMO3-PZM037 Intermediate 395-949 Berudal pulmtra				1 /			_		
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TM03-PZM037 Intermediate 39.5-49.5 Beryllium 11/30/2001 2.3 B 4 No No TM03-PZM037 Intermediate 39.5-49.5 bis(2-Chloroethoxy)methane 11/30/2001 10 U 59 No TM03-PZM037 Intermediate 39.5-49.5 bis(2-Ehlylhexy)phthalate 11/30/2001 10 U 6.6 No TM03-PZM037 Intermediate 39.5-49.5 Cadmium 11/30/2001 1 U 3.3 No TM03-PZM037 Intermediate 39.5-49.5 Cadmium 11/30/2001 1 U 3.6 No TM03-PZM037 Intermediate 39.5-49.5 Cadmium 11/30/2001 0.63 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Cadmium 11/30/2001 71,400 No TM03-PZM037 Intermediate 39.5-49.5 Cadmium 11/30/2001 1 U 810 No TM03-PZM037 Intermediate 39.5-49.5 Cadmium 11/30/2001 1 U 810 No TM03-PZM037 Intermediate 39.5-49.5 Cadmote 11/30/2001 1 U 100 No TM03-PZM037 Intermediate 39.5-49.5 Chloroethane 11/30/2001 1 U 100 No TM03-PZM037 Intermediate 39.5-49.5 Chloroethane 11/30/2001 2 U 21,000 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 2 U 21,000 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.00 No TM03-PZM037 Intermediate 39.5-49.5 Dienzi, alpharbare 11/30/2001 1 U 1.00 No No TM03-PZM037 Intermediate 39.5-49.5 Dienzi, alpharbare 11/30/2001 1 U 0.00 No No TM03-PZM0		+		10, 11, 7				2.5	
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TM03-PZM037 Intermediate 39.5-49.5 Carbon disulfide 11/30/2001 1 U 810 No									
TM03-PZM037 Intermediate 39.5-49.5 Carbon tetrachloride 11/30/2001 1 U 5 No							U	810	_
TM03-PZM037 Intermediate 39.5-49.5 Chlorobenzene 11/30/2001 1 U 100 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chromium 11/30/2001 5.1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chromium 11/30/2001 5.1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chrysene 11/30/2001 10 U 25 No TM03-PZM037 Intermediate 39.5-49.5 Chysene 11/30/2001 1 U No No TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 0.86 U 6 No TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 0.86 U 6 No TM03-PZM037 Intermediate 39.5-49.5 Copper 11/30/2001 0.77 U 1,300 No TM03-PZM037 Intermediate 39.5-49.5 Dibenz[a,h]anthracene 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 15,000 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 5,000 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-octylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-octylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Hex						1	U		
TM03-PZM037 Intermediate 39.5-49.5 Chloroethane 11/30/2001 2 U 21,000 No TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No TM03-PZM037 Intermediate 39.5-49.5 Chrysme 11/30/2001 10 U 25 No TM03-PZM037 Intermediate 39.5-49.5 Chrysme 11/30/2001 10 U 25 No TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 11 U No No TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 0.86 U 6 No TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 0.77 U 1,300 No TM03-PZM037 Intermediate 39.5-49.5 Dibenz[a,h]anthracene 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Diehylphthalate 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Dieh-butylphthalate 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Dieh-butylphthalate 11/30/2001 10 U 0.005 No TM03-PZM037 Intermediate 39.5-49.5 Dieh-butylphthalate 11/30/2001 10 U 0.00 No TM03-PZM037 Intermediate 39.5-49.5 Dieh-butylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ehylbenzene 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ehylbenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Hourene 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1.2,3-ed]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1.2,3-ed]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 In							U	100	
TM03-PZM037 Intermediate 39.5-49.5 Chloroform 11/30/2001 1 U 0.22 No		Intermediate	39.5-49.5	Chloroethane	1	2	U	21.000	No
TM03-PZM037 Intermediate 39.5-49.5 Chromium 11/30/2001 5.1 100 No TM03-PZM037 Intermediate 39.5-49.5 Chrysene 11/30/2001 10 U 25 No TM03-PZM037 Intermediate 39.5-49.5 Cis-1,3-Dichloropropene 11/30/2001 1 U No TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 0.86 U 6 No TM03-PZM037 Intermediate 39.5-49.5 Copper 11/30/2001 0.77 U 1,300 No TM03-PZM037 Intermediate 39.5-49.5 Dibenz[a,h]anthracene 11/30/2001 10 U 1,500 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 1,500 No TM03-PZM037 Intermediate 39.5-49.5 Ehylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ehylphthalate	TM03-PZM037	Intermediate	39.5-49.5	Chloroform	11/30/2001	1	U	0.22	No
TM03-PZM037		Intermediate	39.5-49.5	Chromium		5.1		100	No
TM03-PZM037 Intermediate 39.5-49.5 Cobalt 11/30/2001 0.86 U 6 No TM03-PZM037 Intermediate 39.5-49.5 Copper 11/30/2001 0.77 U 1,300 No TM03-PZM037 Intermediate 39.5-49.5 Diebnz[a,h]anthracene 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Diethylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-otylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ethylenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Ethylenzene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39	TM03-PZM037	Intermediate	39.5-49.5	Chrysene	11/30/2001	10	U	25	No
TM03-PZM037 Intermediate 39.5-49.5 Copper 11/30/2001 0.77 U 1,300 No TM03-PZM037 Intermediate 39.5-49.5 Diebnz[a,h]anthracene 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 15,000 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-octylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Eltylbenzne 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate <td>TM03-PZM037</td> <td>Intermediate</td> <td>39.5-49.5</td> <td>cis-1,3-Dichloropropene</td> <td>11/30/2001</td> <td>1</td> <td>U</td> <td></td> <td>No</td>	TM03-PZM037	Intermediate	39.5-49.5	cis-1,3-Dichloropropene	11/30/2001	1	U		No
TM03-PZM037 Intermediate 39.5-49.5 Dibenz[a,h]anthracene 11/30/2001 10 U 0.025 No TM03-PZM037 Intermediate 39.5-49.5 Diethylphthalate 11/30/2001 10 U 15,000 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Ethylbenzene 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ethylbenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate </td <td>TM03-PZM037</td> <td>Intermediate</td> <td>39.5-49.5</td> <td>Cobalt</td> <td></td> <td>0.86</td> <td>U</td> <td>6</td> <td>No</td>	TM03-PZM037	Intermediate	39.5-49.5	Cobalt		0.86	U	6	No
TM03-PZM037 Intermediate 39.5-49.5 Diethylphthalate 11/30/2001 10 U 15,000 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-octylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ethylbenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate	TM03-PZM037	Intermediate	39.5-49.5	Copper	11/30/2001	0.77	U	1,300	No
TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-octylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ethylbenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 1 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate<	TM03-PZM037	Intermediate	39.5-49.5	Dibenz[a,h]anthracene	11/30/2001	10	U	0.025	No
TM03-PZM037 Intermediate 39.5-49.5 Di-n-butylphthalate 11/30/2001 10 U 900 No TM03-PZM037 Intermediate 39.5-49.5 Di-n-octylphthalate 11/30/2001 10 U 200 No TM03-PZM037 Intermediate 39.5-49.5 Ethylbenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluorantene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 1 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate </td <td>TM03-PZM037</td> <td>Intermediate</td> <td>39.5-49.5</td> <td>Diethylphthalate</td> <td>11/30/2001</td> <td>10</td> <td>U</td> <td>15,000</td> <td>No</td>	TM03-PZM037	Intermediate	39.5-49.5	Diethylphthalate	11/30/2001	10	U	15,000	No
TM03-PZM037 Intermediate 39.5-49.5 Ethylbenzene 11/30/2001 1 U 700 No TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 1 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.25 No TM03-PZM037 I	TM03-PZM037		39.5-49.5	Di-n-butylphthalate		10	U		
TM03-PZM037 Intermediate 39.5-49.5 Fluoranthene 11/30/2001 1.1 J 800 No TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 1 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate	TM03-PZM037	Intermediate	39.5-49.5	Di-n-octylphthalate	11/30/2001	10	U	200	No
TM03-PZM037 Intermediate 39.5-49.5 Fluorene 11/30/2001 0.62 J 290 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 1 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037	TM03-PZM037	Intermediate	39.5-49.5	Ethylbenzene	11/30/2001	1	U	700	No
TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobenzene 11/30/2001 10 U 1 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Iron 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 <td>TM03-PZM037</td> <td>Intermediate</td> <td>39.5-49.5</td> <td>Fluoranthene</td> <td>11/30/2001</td> <td>1.1</td> <td>J</td> <td>800</td> <td>No</td>	TM03-PZM037	Intermediate	39.5-49.5	Fluoranthene	11/30/2001	1.1	J	800	No
TM03-PZM037 Intermediate 39.5-49.5 Hexachlorobutadiene 11/30/2001 10 U 0.14 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Iron 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5	TM03-PZM037	Intermediate	39.5-49.5	Fluorene	11/30/2001	0.62	J	290	No
TM03-PZM037 Intermediate 39.5-49.5 Hexachlorocyclopentadiene 11/30/2001 50 U 50 No TM03-PZM037 Intermediate 39.5-49.5 Hexachloroethane 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Iron 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride <t< td=""><td>TM03-PZM037</td><td>Intermediate</td><td>39.5-49.5</td><td>Hexachlorobenzene</td><td>11/30/2001</td><td>10</td><td>U</td><td>1</td><td>No</td></t<>	TM03-PZM037	Intermediate	39.5-49.5	Hexachlorobenzene	11/30/2001	10	U	1	No
TM03-PZM037 Intermediate 39.5-49.5 Hexachloroethane 11/30/2001 10 U 0.33 No TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Iron 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 <td>TM03-PZM037</td> <td>Intermediate</td> <td>39.5-49.5</td> <td>Hexachlorobutadiene</td> <td>11/30/2001</td> <td>10</td> <td>U</td> <td>0.14</td> <td>No</td>	TM03-PZM037	Intermediate	39.5-49.5	Hexachlorobutadiene	11/30/2001	10	U	0.14	No
TM03-PZM037 Intermediate 39.5-49.5 Indeno[1,2,3-cd]pyrene 11/30/2001 10 U 0.25 No TM03-PZM037 Intermediate 39.5-49.5 Iron 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001	TM03-PZM037	Intermediate	39.5-49.5	Hexachlorocyclopentadiene	11/30/2001	50	U	50	No
TM03-PZM037 Intermediate 39.5-49.5 Iron 11/30/2001 75,700 14,000 Yes TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Manganese 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 <td>TM03-PZM037</td> <td>Intermediate</td> <td>39.5-49.5</td> <td>Hexachloroethane</td> <td>11/30/2001</td> <td>10</td> <td>U</td> <td>0.33</td> <td>No</td>	TM03-PZM037	Intermediate	39.5-49.5	Hexachloroethane	11/30/2001	10	U	0.33	No
TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Manganese 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 <t< td=""><td>TM03-PZM037</td><td>Intermediate</td><td>39.5-49.5</td><td>Indeno[1,2,3-cd]pyrene</td><td>11/30/2001</td><td>10</td><td>U</td><td>0.25</td><td>No</td></t<>	TM03-PZM037	Intermediate	39.5-49.5	Indeno[1,2,3-cd]pyrene	11/30/2001	10	U	0.25	No
TM03-PZM037 Intermediate 39.5-49.5 Isophorone 11/30/2001 10 U 78 No TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Manganese 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 <t< td=""><td>TM03-PZM037</td><td>Intermediate</td><td>39.5-49.5</td><td>Iron</td><td>11/30/2001</td><td>75,700</td><td></td><td>14,000</td><td>Yes</td></t<>	TM03-PZM037	Intermediate	39.5-49.5	Iron	11/30/2001	75,700		14,000	Yes
TM03-PZM037 Intermediate 39.5-49.5 Lead 11/30/2001 1.8 U 15 No TM03-PZM037 Intermediate 39.5-49.5 Magnesium 11/30/2001 68,400 No No TM03-PZM037 Intermediate 39.5-49.5 Manganese 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037	Intermediate	39.5-49.5	Isophorone	11/30/2001		U	78	No
TM03-PZM037 Intermediate 39.5-49.5 Manganese 11/30/2001 2,870 430 Yes TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037	Intermediate	39.5-49.5	Lead	11/30/2001	1.8	U	15	No
TM03-PZM037 Intermediate 39.5-49.5 Mercury 11/30/2001 0.054 U 2 No TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037	Intermediate	39.5-49.5	Magnesium	11/30/2001	68,400			No
TM03-PZM037 Intermediate 39.5-49.5 Methylene chloride 11/30/2001 2 U 5 No TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037	Intermediate	39.5-49.5	Manganese	11/30/2001	2,870		430	Yes
TM03-PZM037 Intermediate 39.5-49.5 Naphthalene 11/30/2001 2.7 J 0.17 Yes TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037	Intermediate	39.5-49.5	Mercury	11/30/2001	0.054	U	2	No
TM03-PZM037 Intermediate 39.5-49.5 Nickel 11/30/2001 2.4 U 390 No TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037		39.5-49.5	Methylene chloride	11/30/2001	2	U	5	No
TM03-PZM037 Intermediate 39.5-49.5 Nitrobenzene 11/30/2001 10 U 0.14 No	TM03-PZM037	Intermediate	39.5-49.5	Naphthalene	11/30/2001	2.7	J	0.17	Yes
	TM03-PZM037	Intermediate	39.5-49.5	Nickel	11/30/2001	2.4	U	390	No
TM03-PZM037 Intermediate 39.5-49.5 Pentachlorophenol 11/30/2001 50 U 1 No	TM03-PZM037	Intermediate	39.5-49.5	Nitrobenzene	11/30/2001	10	U	0.14	No
	TM03-PZM037	Intermediate	39.5-49.5	Pentachlorophenol	11/30/2001	50	U	1	No

Sparrows rount, Maryianu												
Well	Zone	Screen Interval (feet bgs)	Parameter	Sample Date	Result (ug/L)	Flag	PAL (ug/L)	PAL Exceedance?				
TM03-PZM037	Intermediate	39.5-49.5	Phenanthrene	11/30/2001	2.5	J		No				
TM03-PZM037	Intermediate	39.5-49.5	Phenol	11/30/2001	10	U	5,800	No				
TM03-PZM037	Intermediate	39.5-49.5	Potassium	11/30/2001	22,000			No				
TM03-PZM037	Intermediate	39.5-49.5	Pyrene	11/30/2001	10	U	120	No				
TM03-PZM037	Intermediate	39.5-49.5	Selenium	11/30/2001	3.2	U	50	No				
TM03-PZM037	Intermediate	39.5-49.5	Silver	11/30/2001	1.1	J	94	No				
TM03-PZM037	Intermediate	39.5-49.5	Sodium	11/30/2001	550,000			No				
TM03-PZM037	Intermediate	39.5-49.5	Tetrachloroethene	11/30/2001	1	U	5	No				
TM03-PZM037	Intermediate	39.5-49.5	Thallium	11/30/2001	5.7	U	2	No				
TM03-PZM037	Intermediate	39.5-49.5	Toluene	11/30/2001	1	U	1,000	No				
TM03-PZM037	Intermediate	39.5-49.5	trans-1,2-Dichloroethene	11/30/2001	1	U	100	No				
TM03-PZM037	Intermediate	39.5-49.5	trans-1,3-Dichloropropene	11/30/2001	1	U		No				
TM03-PZM037	Intermediate	39.5-49.5	Trichloroethene	11/30/2001	1	U	5	No				
TM03-PZM037	Intermediate	39.5-49.5	Vanadium	11/30/2001	2.9	J	86	No				
TM03-PZM037	Intermediate	39.5-49.5	Vinyl chloride	11/30/2001	2	U	2	No				
TM03-PZM037	Intermediate	39.5-49.5	Xylenes	11/30/2001	3	U	10,000	No				
TM03-PZM037	Intermediate	39.5-49.5	Zinc	11/30/2001	4.3	В	6,000	No				
TS03-PDP002	Shallow	3-13	Iron	10/1/2000	9,200	J	14,000	No				
TS03-PDP002	Shallow	3-13	Calcium	1/18/2001	480,000			No				
TS03-PDP002	Shallow	3-13	Iron	1/18/2001	9,200	В	14,000	No				
TS03-PDP002	Shallow	3-13	Magnesium	1/18/2001	1,200			No				
TS03-PDP002	Shallow	3-13	Manganese	1/18/2001	630		430	Yes				
TS03-PDP002	Shallow	3-13	Potassium	1/18/2001	30,000			No				
TS03-PDP002	Shallow	3-13	Sodium	1/18/2001	50,000			No				
TS03-PPP003*	Shallow	5-15	Calcium	11/14/2000	190,000			No				
TS03-PPP003*	Shallow	5-15	Iron	11/14/2000	200		14,000	No				
TS03-PPP003*	Shallow	5-15	Magnesium	11/14/2000	160,000			No				
TS03-PPP003*	Shallow	5-15	Manganese	11/14/2000	150		430	No				
TS03-PPP003*	Shallow	5-15	Potassium	11/14/2000	63,000			No				
TS03-PPP003*	Shallow	5-15	Sodium	11/14/2000	1,300,000			No				

Yellow highlight indicates an exceedance of the Project Action Limit (PAL)

- $B = The \ analyte \ was \ not \ detected \ substantially \ above \ the \ level \ reported \ in \ laboratory \ or \ field \ blanks$
- $\label{eq:J} J = The \ analyte \ was \ positively \ detected; \ the \ associated \ numerical \ value \ is \ approximate$
- L = The analyte was positively detected; the reported value may be biased low
- K = The analyte was positively detected; the reported value may be biased high
- U =The analyte was not detected above the reporting limit
- UJ = The analyte's reporting limit is approximate
- UL = The analyte was not detected above the reporting limit; the reporting limit may be biased low
- TD = Total Depth. The historic screen interval is not available, but the total measured depth is given based on the completed well inspection.
- * HI08-PZM003 is cross listed as TS03-PPP003

APPENDIX C

Table 1 - Parcel B24 Summary of Organics Detected in Groundwater Former Sparrows Point Steel Mill Sparrows Point, Maryland

	11	1	I	1			1					
	Units	PAL	B8-010-PZ	SW-021-MWS	TM02-PZM009	TM03-PZM004	TM03-PZM037					
Parameter			Shallow	Shallow	Shallow	Shallow	Intermediate					
			Screen: 3-18	Screen: 6-16	Screen: 11-21	Screen: 5-15	Screen: 39.5-49.5					
Volatile Organic Compound												
1,2-Dichloroethene (Total)	μg/L	70	2 U	2 U	2 U	2 U	1.3 J					
Benzene	μg/L	5	1 U	1 U	11	1.1	1 U					
Chloroform	μg/L	0.22	1 U	4.7	1 U	1 U	0.98 J					
cis-1,2-Dichloroethene	μg/L	70	1 U	1 U	1 U	1 U	1.3					
Ethylbenzene	μg/L	700	1 U	1 U	0.75 J	1 U	1 U					
Isopropylbenzene	μg/L	450	1 U	1 U	0.27 J	1 U	1 U					
Styrene	μg/L	100	1 U	1 U	0.48 J	1 U	1 U					
Toluene	μg/L	1,000	1 U	1 U	6	0.7 J	1 U					
Trichloroethene	μg/L	5	1 U	1 U	1.6	1 U	0.91 J					
Xylenes	μg/L	10,000	3 U	3 U	12.3	3 U	3 U					
Semi-Volatile Organic Compound^												
1,1-Biphenyl	μg/L	0.83	1 U	1 U	0.96 J	2.2 J	1 U					
1,4-Dioxane	μg/L	0.46	0.1 U	0.1 U	0.02 J	0.044 J	0.5					
2,4-Dimethylphenol	μg/L	360	1 U	1 U	18.2	0.26 J	1 U					
2-Methylnaphthalene	ug/L	36	0.1 U	0.1 U	4.8	11.7	0.58					
2-Methylphenol	μg/L	930	1 U	1 U	1.1	0.19 J	1 U					
3&4-Methylphenol(m&p	μg/L	930	2.1 U	2 U	7.8	0.65 J	2 U					
Cresol)	/T	520	0.1.11	0.1.11		2.6	0.01					
Acenaphthene	μg/L	530	0.1 U	0.1 U	2.2	2.6	0.91					
Acenaphthylene	μg/L	530	0.1 U	0.1 U	1.1	5.3	0.22					
Acetophenone	μg/L	1,900	1 U	1 U	0.49 J	1 U	1 U					
Anthracene	μg/L	1,800	0.027 J	0.038 J	0.64	2.3	1.1					
Benz[a]anthracene	μg/L	0.03	0.016 J	0.1 U	0.095 J	0.33	0.11					
Benzo[a]pyrene	μg/L	0.2	0.1 U	0.1 U	0.098 U	0.035 J	0.011 J					
Benzo[b]fluoranthene	μg/L	0.25	0.1 U	0.1 U	0.098 U	0.089 J	0.04 J					
Benzo[k]fluoranthene	μg/L	2.5	0.1 U	0.1 U	0.098 U	0.036 J	0.036 J					
bis(2-Ethylhexyl)phthalate	μg/L	6	0.23 J	1 U	0.98 U	0.14 B	0.16 B					
Carbazole	μg/L		1 U	1 U	5.6	15.9	1.9					
Chrysene	μg/L	25	0.1 U	0.012 J	0.091 J	0.23	0.11					
Di-n-butylphthalate	μg/L	900	1 U	1 U	0.98 U	1 U	0.21 J					
Di-n-ocytlphthalate	μg/L	200	1 U	1 U	0.22 J	1 U	1 U					
Fluoranthene	μg/L	800	0.015 J	0.018 J	1.6	4.9	2.1					
Fluorene	μg/L	290	0.1 U	0.1 U	2.8	8.9 J	1.3					
Naphthalene	μg/L	0.17	0.061 B	0.092 B	65.8	110	3.4					
Phenanthrene	μg/L		0.023 J	0.036 J	4.4	18.3	5.8					
Phenol	μg/L	5,800	1 U	1 U	0.98 U	0.27 J	1 U					
Pyrene	μg/L	120	0.017 J	0.014 J	1	3.6	1.3					
TPH/Oil and Grease												
Diesel Range Organics	μg/L	47	N/A	101 UJ	899 J	583 J	335 J					
Gasoline Range Organics	μg/L	47	N/A	200 U	87.9 J	200 U	200 U					
Oil and Grease	μg/L	47	2,100 J	N/A	4,770 U	N/A	N/A					

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates not analyzed for in the sample

[^]PAH compounds were analyzed via SIM

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 quantitation/detection limit may be higher than reported.

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

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

Table 2 - Parcel B24 Summary of Inorganics Detected in Groundwater Former Sparrows Point Steel Mill Sparrows Point, Maryland

		1	ı	,	1	7	1
_			B8-010-PZ	SW-021-MWS	TM02-PZM009	TM03-PZM004	TM03-PZM037
Parameter	Units	PAL	Shallow	Shallow	Shallow	Shallow	Intermediate
			Screen: 3-18	Screen: 6-16	Screen: 11-21	Screen: 5-15	Screen: 39.5-49.5
Total Metal							
Aluminum	μg/L	20,000	N/A	576	98.7	297 J	38.4 B
Antimony	μg/L	6	N/A	3.3 J	6 U	6 U	6 U
Arsenic	μg/L	10	N/A	5 U	5 U	4.5 J	18.9
Barium	μg/L	2,000	N/A	71.4	65.8	13.1	123
Beryllium	μg/L	4	N/A	0.47 J	1 U	1 U	1 U
Chromium	μg/L	100	N/A	2.5 B	2.2 J	1 J	1.1 J
Chromium VI	μg/L	0.035	8 J	10 U	8.5 B	10 U	10 U
Iron	μg/L	14,000	N/A	74.8	48.6 J	44.2 J	23,200
Manganese	μg/L	430	N/A	19	3 J	1.4 J	2,800
Nickel	μg/L	390	N/A	0.85 B	4.5 J	10 U	1 B
Selenium	μg/L	50	N/A	5.2 B	8 U	3.2 J	8 U
Vanadium	μg/L	86	N/A	391	48.7	114	5 U
Zinc	μg/L	6,000	N/A	1.3 B	4.2 J	0.69 B	1.5 B
Dissolved Metal							
Aluminum, Dissolved	μg/L	20,000	25.4 B	512	91.4	283	21.6 J
Antimony, Dissolved	μg/L	6	6 U	2.8 J	6 U	6 U	6 U
Arsenic, Dissolved	μg/L	10	5.8	5.4	5 U	5.3	20.8
Barium, Dissolved	μg/L	2,000	18.9	62.3	62.5	12.5	125
Beryllium, Dissolved	μg/L	4	1 U	1 U	1 U	0.41 J	0.4 J
Chromium, Dissolved	μg/L	100	6.9	2.1 B	5 U	0.95 B	1.2 B
Copper, Dissolved	μg/L	1,300	1.5 J	2.1 J	5 U	5 U	5 U
Iron, Dissolved	μg/L	14,000	87.2	20.4 B	12.6 B	33.3 B	23,700
Manganese, Dissolved	μg/L	430	59	13.2	5 U	5 U	2,790
Nickel, Dissolved	μg/L	390	10 U	10 U	3.6 J	10 U	10 U
Thallium, Dissolved	μg/L	2	5 J	10 U	10 U	10 U	10 U
Vanadium, Dissolved	μg/L	86	1,040	376	46	119	5 U
Other							
Available Cyanide	μg/L	200	N/A	N/A	1.4 J+	N/A	N/A
Total Cyanide	μg/L	200	10 U	10 U	25	61.4	10 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates the parameter was not analyzed for this sample

- U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- B: The analyte was not detected substantially above the level of the associated method blank or field blank.
- 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.

APPENDIX D

Table 1 - Soil Sampling Summary

Source Area/ Description	REC & Finding/ SWMU/AOC	Figure or Drawing of Reference	Rationale	Number of Locations	Sample Locations	Boring Depth	Sample Depth	Analytical Parameters: Soil Samples
Electrical Sub-Stations (& HCWWTP)	†REC 7A-7B, Findings 165-172	Site Visit, Aerial, Drawings 5038, 5138, 5538	Investigate potential impacts related to electric sub-stations in the vicinity of the HCWWTP (potential leaks or releases).	6	B24-001 through B24-006	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Caustic Solution Tanks		Drawing 5139	Investigate potential impacts related to the caustic solution tanks associated with wastewater treatment processes (potential leaks or releases).	2	B24-007 and B24-008	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Control Building/ Polymer Storage Tank/White Chemical Powder	†REC 7A-7B, Findings 165-172	Site Visit, Drawing 5139	Investigate potential impacts related to the control building and polymer storage tank (potential leaks or releases) and the wastewater treatment chemical powder found on the ground.	2	B24-009 and B24-010	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Sodium Hydrosulfide Tank		Site Visit, Aerial	Investigate potential impacts related to the sodium hydrosulfide tank (potential leaks or releases).	2	B24-011 and B24-012	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Sulfuric Acid Tank	†REC 7A-7B, Findings 165-172	Site Visit, Aerial	Investigate potential impacts related to the sulfuric acid tank (potential leaks or releases).	2	B24-013 and B24-014	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')

Table 1 - Soil Sampling Summary

Source Area/ Description	REC & Finding/ SWMU/AOC	Figure or Drawing of Reference	Rationale	Number of Locations	Sample Locations	Boring Depth	Sample Depth	Analytical Parameters: Soil Samples
Former Oil Aboveground Storage Tank		Drawings 5038, 5138, 5538	Investigate potential impacts related to the former oil AST and associated pump (potential leaks or releases).	2	B24-015 and B24-016	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Thickener Tanks	†REC 7A-7B, Findings 165-172	Drawings 5038, 5138, 5538	Investigate potential impacts related to wastewater thickeners (potential leaks or releases).	4	B24-017 through B24-020	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Sea Container/ Chemical Storage		Site Visit, Aerial	Investigate potential impacts related to chemical storage tanks located outside of a sea container storage unit (potential leaks or releases).	2	B24-021 and B24-022	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Trailer/ Equipment Storage		Site Visit, Aerial	Investigate potential impacts related to equipment stored outdoors on-site (potential leaks or releases).	2	B24-023 and B24-024	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Settling Basin # 2/ Fill Material	†REC 7A-7B, Findings 165-172	Drawings 5038, 5138, 5538	Investigate backfilled area of settling basin # 2 for soil contamination from treatment activities and backfilling (potential leaks or releases).	2	B24-025 and B24-026	Total depth of 20 feet.	0-1', 4-5', 9-10', 17-18' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')

Table 1 - Soil Sampling Summary

Source Area/ Description	REC & Finding/ SWMU/AOC	Figure or Drawing of Reference	Rationale	Number of Locations	Sample Locations	Boring Depth	Sample Depth	Analytical Parameters: Soil Samples
Emergency Detention Basin	REC 7C, Finding 173	Site Visit, Aerial, Industrial Water Utility Drawings	Investigate potential impacts related to the use of the emergency detention basin (potential leaks or releases), which served as a bypass system for the HCWWTP to be used in the event of treatment upsets. The detention basin includes a composite liner; therefore, soil borings are proposed at locations surrounding the basin.	3	B24-027 through B24-029	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Sludge Filter Cake Area	†REC 7A-7B, Findings 165-172	Site Visit, Aerial	Investigate potential impacts related to the sludge collection boxes which handle sludge filter cake from wastewater treatment operations (potential leaks or releases).	2	B24-030 and B24-031	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Drip Leg #20		Drip Leg Drawing 5887	Coke oven gas condensate was removed from the gas pipelines at drip legs located throughout the distribution system. The condensate was typically discharged to drums, although it is possible some spilled out of the drums and on to the ground.	2	B24-032 and B24-033	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Parcel B14 NAPL Detection Area		MDE Request	Investigate impacts from NAPL area detected in piezometer B14-037-PZ during Parcel B14 NAPL Delineation activities.	1	B24-034	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Bear Creek Shoreline		MDE Request	Investigate the migration of potential contaminants within the site towards the Bear Creek shoreline.	2	B24-035 and B24-036	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')

Table 1 - Soil Sampling Summary

Source Area/ Description	REC & Finding/ SWMU/AOC	Figure or Drawing of Reference	Rationale	Number of Locations	Sample Locations	Boring Depth	Sample Depth	Analytical Parameters: Soil Samples
Settling Basin # 3	†REC 7A-7B, Findings 165-172	MDE Request	Investigate area adjacent to settling basin # 3 for soil contamination from treatment activities and sludge storage (potential leaks or releases).	1	B24-037	Total depth of 20 feet.	0-1', 4-5', 9-10', 17-18' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
			Total:	37				

Soil Borings Sampling Density Requirements (from **Worksheet 17 - Sampling Design and Rationale**) No Engineered Barrier (16-40 acres): 1 boring per 1.5 acres with no less than 15 borings. Engineered Barrier (N/A)

No Engineered Barrier (25.7 acres) = **18 borings required, 37 proposed** Includes Building Footprints (1.00 acres)

VOCs - Volatile Organic Compounds (Target Compound List) ^VOCs are only collected if the PID reading exceeds 10 ppm

SVOCs - Semivolatile Organic Compounds (Target Compound List)

Metals - (Target Analyte List plus Hexavalent Chromium and Cyanide)

O&G - Oil and Grease

DRO/GRO - Diesel Range Organics/Gasoline Range Organics

PCBs - Polychlorinated Biphenyls bgs - Below Ground Surface

[†]REC 7A-7B and Findings 165-172 (various SWMUs) are targetted by multiple soil borings which additionally provide general sampling coverage of the HCWWTP.

Table 2 - Groundwater Sampling Summary

Source Area/ Description	REC & Finding/ SWMU/AOC	Figure or Drawing of Reference	Condition of Existing Well	Number of Locations	Sample Locations	Boring Depth	Screen Interval	Analytical Parameters: Groundwater Samples
Electrical Sub-Station (& HCWWTP)	REC 7A-7B, Findings 165-172	Drawings 5038, 5138, 5538	N/A	2	B24-001 and B24-003	Total depth of 7 feet below water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total/available), O&G, DRO/GRO
Emergency Detention Basin	REC 7C, Finding 173	Site Visit, Aerial, Industrial Water Utility Drawings	N/A	1	B24-027	Total depth of 7 feet below water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total/available), O&G, DRO/GRO
Parcel B14 NAPL Detection		MDE Request	N/A	1	B24-034	Total depth of 7 feet below water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total/available), O&G, DRO/GRO
Bear Creek Shoreline		MDE Request	N/A	1	B24-035	Total depth of 7 feet below water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total/available), O&G, DRO/GRO
			Total:	5				

Field measurements include pH, DO, ORP, conductivity, temperature.

Metals analysis will include dissolved hexavalent chromium

VOCs - Volatile Organic Compounds (Target Compound List)

SVOCs - Semivolatile Organic Compounds (Target Compound List)

Metals - (Target Analyte List plus Hexavalent Chromium)

O&G - Oil and Grease

DRO/GRO - Diesel Range Organics/Gasoline Range Organics

bgs - Below Ground Surface

APPENDIX E

HEALTH AND SAFETY PLAN

SPARROWS POINT TERMINAL SPARROWS POINT, MARYLAND

Prepared by:



Environmental Engineers

January 2015

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ATTACHMENTS

Attachment A – EAG Acknowledgment Form

Attachment B – MSDSs

1.0 INTRODUCTION

1.1 Background

The Sparrows Point Terminal site has historically been a steel making facility. It is located in Baltimore County, Maryland in the southeast corner of the Baltimore metropolitan area (approximately 9 miles from the downtown area), on the Sparrows Point Peninsula in the Chesapeake Bay watershed. The facility occupies the entire peninsula and is bounded to the west by Bear Creek; to the south by Patapsco River; and to the east by Jones Creek, Old Road Bay and residential areas of the City of Edgemere. The facility is bounded to the north by the Sparrows Point Country Club. The site is approximately 3,100 acres in size.

Pennsylvania Steel built the furnace at Sparrows Point in 1887 and the first iron was cast in 1889. Bethlehem Steel Corporation (BSC) purchased the facility in 1916 and enlarged it by building additional and plating facilities. BSC filed for bankruptcy in 2001. A series of entities has owned the site between then and now: the International Steel Group (ISG), Mittal Steel, ISG Sparrows Point, LLC, Severstal Sparrows Holding LLC, which was renamed to Severstal Sparrows Point, LLC, RG Steel Sparrows Point, LLC, and then a joint venture to Sparrows Point LLC (SP) and HRE Sparrows Point LLC. Most recently, in 2014, the property and assets were sold to Sparrows Point Terminal LLC (SPT). Environmental liability was retained by SP and work is currently being conducted by EnviroAnalytics Group, LLC (EAG) on behalf of SP.

- In addition to the current environmental investigation and remediation being conducted onsite by EAG and their consultants, there are other entities conducting work on the facility. Demolition of the remaining structures is currently ongoing at the site, and those contractors are being managed by SPT.
- The purpose of this document is to provide an overall health and safety plan (HASP) for EAG personnel and EAG directed contractors who are engaging in environmental investigation and remediation activities onsite. EAG directed contractors will also be expected to have their own Health and Safety Program, and they may opt to draft their own site specific HASP, provided it meets the requirements in this HASP.

1.2 Historic Operations

Steel manufacturing involves handling vast amounts of raw material including coke, iron ore, limestone and scrap steel, as well as recovering byproducts and managing waste materials. The operations listed below either were or are currently performed at the Sparrows Point Facility.

- Iron and steel production
- Coal chemical recovery system
- Other byproducts recovery systems
- Wastewater treatment systems
- Solid waste management
- Air pollution control

A number of site-specific environmental and hydrogeologic investigations have been prepared for the Sparrows Point facility. For the purposes of this HASP, information was obtained from the "Special Study Area Release Site Characterization" completed in 2001 by CH2MHill, as well as additional documents submitted since that time. There are five separate Special Study Areas as put forth in the Consent Decree:

- Humphrey Impoundment,
- Tin Mill Canal/Finishing Mills Areas,
- Coke Oven Area,
- Coke Point Landfill, and
- Greys Landfill.

Contaminated soils and groundwater may be present at the site. This plan was prepared based on an assessment of hazards expected to be present and a review of data from the previous site investigations and groundwater sampling events.

During the current investigations and remedial efforts, all related work will be performed in accordance with the requirements of this HASP and Occupational Safety and Health Administration (OSHA) regulations as defined in 29 Code of Federal Regulations (CFR) 1910.120 and 1926.65.

2.0 PURPOSE, SCOPE AND ORGANIZATION

This section describes the purpose, scope and organization of this HASP and the health and safety responsibilities of EAG, their employees, and their subcontractors involved in the field investigation and remediation activities at the Sparrows Point facility.

2.1 Scope

Field investigation and remediation activities for this project may include, but are not limited to:

- Groundwater sampling and monitoring,
- Groundwater and remediation well installation,
- Groundwater and remediation well repairs,
- Groundwater and remediation well closure and abandonment,
- Surface water sampling,
- Sediment sampling,
- Soil boring and subsurface soil sampling,
- Soil excavations for remedial purposes,
- Installation and operation of remediation systems for soil, soil vapor, and groundwater,
- Decommissioning and closure of remediation systems,
- Soil excavations for remedial purposes,
- Insitu soil mixing/soil stabilization,
- Exsitu soil mixing/soil stabilization,
- Dredging operations along Tin Mill Canal,
- Insitu chemical and/or biological injections, and
- Recovery of non-aqueous phase liquids (NAPL)

When EAG personnel are providing oversight of subcontractors, they will attend the safety and health briefings held by the contractor. EAG personnel will follow the requirements of this HASP, as well as any potentially more stringent requirements of the contractor's health and safety plan.

When EAG personnel are conducting tasks on their own, with or without subcontractors, they will follow the requirements of this HASP. EAG contractors, such as drillers, will also be required to follow the requirements of this HASP, as well as any more stringent requirements of the contractor's health and safety plan.

All EAG field personnel, including subcontractors to EAG, will be required to read and understand this HASP and agree to implement its provisions. All site personnel will sign the Acknowledgement Form included in **Attachment A** stating that they have read, understood, and agree to abide by the guidelines and requirements set forth in this plan.

2.2 Organization of Document

This HASP includes health and safety procedures for all generally anticipated project field activities. This plan also meets the OSHA requirements contained in the CFR, specifically 29 CFR 1910.120 and 29 CFR 1926, by including the following items:

- A description of staff organization, qualifications and responsibilities (Section 2.3),
- Hazard analysis (Section 3.0),
- Health hazard information (Section 4.0),
- Personal protective equipment (PPE), including available first aid, emergency, and safety equipment (Section 5.0),
- Employee and subcontractor training and standard safety procedures (section 6.0),
- Exposure monitoring plan (Section 7.0),
- Medical surveillance (Section 8.0),
- Site control measures and decontamination procedures for personnel and equipment (Section 9.0),
- Emergency response and contingency procedures (section 10.0), and
- Material Safety Data Sheets (MSDSs) for chemicals used on-site (Attachment B).

2.3 EAG Health and Safety Personnel

Personnel responsible for implementing this HASP include:

EAG Contacts for Sparrows Point Project Work								
VP Remediation, Russ Becker	(314) 686-5611							
Senior Project Manager, James Calenda	(314) 620-3056							
Senior Project Engineer, Elizabeth Schlaeger	(314) 307-1732							
Josh Burke – Field Operations Manager	(314) 686-5623							
Project Field Team Members, Jeff Wilson and Bill Trentzsch	(314) 620-3135, (314) 686-5598							

3.0 HAZARD ANALYSIS

This section outlines the potential hazards related to the field activities listed in Section 2.1.

3.1 Hazard Analysis

The field activities planned for this project pose potential health and safety hazards for field team members. This section describes the hazards associated with the above-listed field activities. Detailed chemical, physical, and biological hazards information is provided in Section 4.0 (Health Hazard Information).

Hazards to which employees and subcontractors may be exposed to as a result of the above-listed activities include potential chemical exposures, lacerations, excessive noise, thermal stress, lifting of excessive weight or bulk, hand tools and heavy equipment, drilling and slips, trips and falls.

3.1.1 Chemical Hazards

Potential exposures to chemicals in the soil or groundwater include the possibility of dermal exposure (contact and/or absorption), inhalation of chemical contamination that may be encountered during sampling or during equipment decontamination activities, or ingestion of contaminants if good personal hygiene practices are not followed.

Benzene, naphthalene, and various metals are the major contaminants that have been identified in groundwater during previous investigations at the site—In addition, light NAPL (LNAPL — benzene, in particular) and dense NAPL (DNAPL — naphthalene, in particular) have also been identified or are heavily suspected in various locations in the Coke Oven Area. Dissolved metals the chemicals of concern primarily located in the area of Tin Mill Canal and the Rod and Wire Mill Area. Treatment chemicals, such as sulfuric acid, are currently being used in remediation systems. All appropriate MSDS sheets will be reviewed that apply to the investigation or remedial tasks being conducted. MSDS sheets are located in **Attachment B**. It should be noted that this is a dynamic document: should any additional chemicals be introduced or discovered, the MSDS sheets will be added to **Attachment B**, as necessary.

3.1.2 Physical Hazards

The potential physical hazards associated with field activities include:

- Excessive lifting
- Slips, trips, and falls
- Working at heights
- Exposure to extreme outside temperatures and weather
- Equipment hazards
- Drilling Hazards
- Noise
- Dust and fumes
- Injury from tools, equipment, rotating parts
- Electrical hazards
- Buried and overhead hazards
- Work over water
- Driving to, from, and around the site (including working in trafficked areas)

Additional hazards may be encountered based on the various task at hand. It will be the responsibility of the site manager, with the help of field staff, to identify and address any additional hazards on a "per task or job" basis. A Job Safety Analyses (JSA) may need to be conducted prior to the start of various tasks. Safety meetings will be conducted with all staff in attendance, before the start of any new task or when any significant personnel or other changes (such as a swift change in weather, for example) occur. Updated information relating to physical hazards will be presented during these meetings in an effort to familiarize the crew with potential hazards, discuss new situations, and determine how the associated risks can be reduced. Further, good housekeeping practices will be enforced to preclude other risks resulting from clutter and inattention to detail. In addition, internal field audits will be randomly conducted to ensure adherence to all procedures are being followed.

3.1.3 Biological Hazards

Biological hazards that may be encountered when conducting field activities include the following:

- Poisonous snakes and spiders
- Ticks and tick-borne diseases
- Stinging insects such as chiggers, bees, wasps, etc.
- Various viruses and diseases spread via animal to human contact such as West Nile virus or rabies
- Various viruses and diseases spread via human to human contact such as colds or the flu
- Dermal contact with poison ivy, oak, and/or sumac
- Bloodborne pathogens when administering first aid

First aid kits will be available on-site. It is crucial to note that any site personnel who has significant allergies should communicate that information to the field team they are working with, along with the location of their auto-injector pen (such as an Epi-Pen) for use in case of going into anaphylactic shock from something that would cause such a reaction (like a bee sting, for example). Personnel who suffer from such allergies are responsible for providing their own auto-injector devices as those are typically prescription based as well as specific to their particular allergy.

4.0 HEALTH HAZARD INFORMATION

This section provides chemical hazard information for those potentially hazardous materials expected to be present at the facility. Potential physical and biological hazards are also discussed in this section.

4.1 Chemical Hazards

Exposure to chemicals through inhalation, ingestion, or skin contact may result in health hazards to field workers. Hazards associated with exposure will be evaluated using OSHA Permissible Exposure Limits (PELs) and the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs). Each of these values are 8-hour, time-weighted averaged (TWAs) above which an employee cannot be exposed. EAG may also use the National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) where applicable. Although the OSHA PELs are the only exposure limits enforceable by law, the most stringent of exposure limits will be used as the EAG-enforced exposure criteria during field activities.

The following is a summary of the potential hazards created by the compounds that may be encountered during field activities. Data from sampling of groundwater wells was reviewed to identify potential contaminants at the site. Contaminants of concern may include benzene, toluene, ethylbenzene and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), phenols, metals and water treatment chemicals. Table 4-1 contains chemical information and exposure limits for various chemicals that may be expected to be present in the investigation and remediation efforts. During the recovery of NAPL, the major contaminants of concern are benzene and naphthalene. It is possible that carbon monoxide may also be encountered from the use of various internal combustion engines (vehicular or otherwise); however, it is anticipated that since any such engine will be used outdoors, it is not expected that concentrations of concern will accumulate. With the use of any such engine, the engine should be positioned such that site personnel are upwind of the engine exhaust.

If any chemicals are brought on-site, MSDS must be made available and added to **Attachment B**. Personnel must be trained in the hazards and use of chemicals.

Table 4-1
Chemical Contaminants of Potential Concern

Chemical Name Synonyms (trade name)	Exposure Limits	Characteristics	Route of Exposure	Symptoms of Exposure
Benzene	PEL: 1PPM REL: 0.1 CA TLV: 0.5PPM STEL: 1PPM (NIOSH) Skin: YES	Colorless to light-yellow liquid with aromatic odor. LEL: 1.2% UEL: 7.8% VP: 75mm FI.P: 12°F	INH ABS ING CON	Irritation of eyes, skin, nose, respiratory system, giddiness, headache, nausea, fatigue, anorexia, dermatitis, bone marrow depression
Ethylbenzene	PEL: 100PPM REL: 100PPM TLV: 100PPM STEL: 125PPM IDLH: 800PPM Skin: NO	Colorless liquid with an aromatic odor. LEL: 0.85 UEL: 6.7% IP: 8.76EV VP: 7mm FI.P: 55°F	INH ING CON	Irritation of eyes, skin, mucous membranes; headache; dermatitis
1,1 dichloroethane	PEL: 100PPM REL: 100PPM TLV: 100PPM STEL: NA IDLH: 3000PPM Skin: NO	Colorless, oily liquid with a chloroform-like odor. LEL: 6.2% UEL: 16% IP: 11.05EV Vp: 64mm FI.P: 56°F	INH ING CON	Irritation of eyes, CNS depression, liver, kidney, lung damage
Phenol	PEL: 5PPM REL: 5PPM, 15.6PPM (C) TLV: 5PPM STEL: NA IDLH 250PPM Skin: YES	Colorless to light pink crystalline solid with a sweet, acrid odor. LEL: 1.8% UEL: 5.9% IP: 8.12EV Vp: 0.08mm FI.P: 175°F	INH ING CON ABS	Irritated eyes, nose, throat, anorexia, weakness, muscular ache, pain, dark urine, cyanosis, liver, kidney damage, skin burns, dermatitis, tremor, convulsions, twitch
Naphthalene	PEL: 10PPM REL: 10PPM TLV: 10PPM STEL: 15PPM IDLH: 250PPM Skin: YES	Colorless to brown solid with an odor of mothballs LEL: 0.9% UEL: 5.9% IP: 8.12EV Vp: 0.08mm FI.P: 174°F	INH ABS ING CON	Irritation of eyes, headache, confusion, excitement, malaise, nausea, vomiting, abdominal pain, irritated bladder, profuse sweating, jaundice, hematuria, renal shutdown, dermatitis, optical neuritis, corneal damage
Toluene	PEL: 200PPM, 300PPM (C) REL: 100PPM TLV: 20PPM STEL: 150PPM IDLH: 500PPM Skin: YES	Colorless liquid with a sweet, pungent benzene-like odor. LEL: 1.1% UEL: 7.1% IP: 8.82EV VP: 21MM FI.P: 40°F	INH ABS ING CON	Irritation of eyes, nose, fatigue, weakness, confusion, euphoria, dizziness, headache, dilated pupils, lacrimation, nervousness, muscle fatigue, insomnia, dermatitis, liver, kidney damage
Xylenes	PEL: 100PPM REL: 100PPM TLV: 100PPM STEL: 150PPM IDLH: 900PPM Skin: NO	Colorless liquid with an aromatic odor. LEL: 0.9% UEL: 6.7% IP: 8.40EV VP: 5MM FI.P: 88°F	INH ABS ING CON	Irritated eyes, nose, respiratory system, headache, fatigue, dizziness, confusion, malaise, drowsiness, incoherence, staggering gait, corneal vacuolization, anorexia, nausea, vomiting, abdominal pain, dermatitis

Chemical Name Synonyms (trade name)	Exposure Limits	Characteristics	Route of Exposure	Symptoms of Exposure
Styrene	PEL: 100PPM, 200PPM (C) REL: 50PPM TLV: 20PPM STEL: 40PPM IDLH: 700PPM Skin: NO	Colorless to yellow, oily liquid with a sweet, floral odor. LEL: 0.9% UEL: 6.8% IP: 8.40eV VP: 5MM FI.P: 88°F	INH ABS ING CON	Irritated eyes, nose, respiratory system, headache, fatigue, dizziness, confusion, malaise, drowsiness, weakness, narcosis, dermatitis
Chlorodiphenyl (54% chlorine) (11097-69-1)	PEL: 0.5mg/m³ REL: 0.001mg/m³ TLV: 0.5mg/m³ STEL: N/A IDLH: 5mg/m³(CA) Skin: YES	Colorless to pale yellow viscous liquid with a mild hydrocarbon odor. LEL: NA UEL: NA IP: UNKNOWN VP: 0.00006MM FI.P: NA	INH ABS ING CON	Irritated eyes, chloracne, liver damage, reproductive effects (carcinogen)
Polynuclear aromatic hydrocarbons (PAHs) (coal tar pitch volatiles) (65996-93-2)	PEL: 0.2mg/m³ REL: 0.1mg/m³ TLV: 0.2 mg/m³ STEL: N/A IDLH: 80mg/m³(CA) Skin: NO	The pitch of coal tar is black or dark brown amorphous residue that remains after the redistillation process. LEL: N/A UEL: N/A IP: VARIES VP: VARIES FI.P: VARIES	INH CON	Direct contact or exposure to vapors may be irritating to the eyes. Direct contact can be highly irritating to the skin and produce dermatitis. Exposure to vapors may cause nausea and vomiting. A potential human carcinogen.
Arsenic (inorganic)	PEL: 0.01mg/m³ REL: NONE TLV: 0.5 mg/m³ STEL: N/A IDLH: 5mg/m³ (CA) Skin: NO	Silver-gray or tin-white brittle odorless solid. Air odor threshold: N/D.	INH ABS CON ING	Symptoms include ulceration of nasal septum, gastrointestinal disturbances, respiratory irritation and peripheral neuropathy. Potential occupational carcinogen.
Barium	PEL: 0.5mg/m³ REL: 0.5mg/m³ TLV: 0.5mg/m³ STEL: N/A IDLH: 50mg/m³ Skin: NO	White, odorless solid. Air odor threshold: N/D.	INH ING CON	Irritated eyes, skin, upper respiratory system, skin burns, gastroenteritis, muscle spasm, slow pulse, cardiac arrhythmia
Cadmium (elemental)	PEL: 0.005mg/m³ REL: CA TLV: 0.01mg/m³ STEL: N/A IDLH: 9mg/m³ (CA) Skin: NO	Silver-white, blue-tinged lustrous, odorless solid. Air odor threshold: N/D.	INH ING	Symptoms include pulmonary edema, cough, tight chest, head pain, chills, muscle aches, vomiting and diarrhea. Potential occupational carcinogen.
Chromium (Metal)	PEL: 1.0mg/m³ REL: 0.5mg/m³ TLV: 0.5mg/m³ STEL: N/A IDLH: 250mg/m³ Skin: NO	Blue-white to steel-gray lustrous, brittle, hard odorless solid. Air odor threshold: N/D.	INH ING CON	Symptoms may include irritated eyes and skin, lung fibrosis.
Chromium (Chromium III inorganic compounds)	PEL: 0.5mg/m³ REL: 0.5mg/m³ TLV: 0.5mg/m³ STEL: N/A IDLH: 25mg/m³ Skin: NO	Varies depending on specific compound.	INH ING CON	Irritation of eyes, sensitivity dermatitis

Chemical Name Synonyms (trade name)	Exposure Limits	Characteristics	Route of Exposure	Symptoms of Exposure	
Copper	PEL: 1mg/m³ REL: 1mg/m³ TLV: 1mg/m³ STEL: N/A IDLH: 100mg/m³ Skin: NO	Reddish, lustrous, malleable, odorless solid	INH ING CON	Irritation of eyes, nose, pharynx, nasal septum perforations, metallic taste, dermatitis	
Lead (Elemental & Inorganic as Pb)	PEL: 0.05mg/m³ REL0.1mg/m³ TLV: 0.05mg/m³ STEL: N/A IDLH: 100mg/m³ Skin: NO	A heavy, ductile soft gray INH solid. Air odor threshold: ING N/D. CON		Accumulative poison may cause weakness, insomnia, facial pallor, anorexia, malnutrition, constipation, abdominal pain, anemia, gingival lead line, paralysis of wrists and ankles, hypertension and kidney disease.	
Nickel	PEL: 1mg/m³ REL: 0.015mg/m³ (Ca) TLV: 0.1mg/m³ STEL: N/A IDLH: 10mg/m³ Skin: NO	Lustrous, silvery, odorless solid. Air odor threshold: N/A VP: 0mm INH CON ING		Sensitivity dermatitis, allergic asthma, pneumonitis	
Vanadium pentoxide dust	PEL: 0.5mg/m³ (C) REL: 0.05mg/m³ (C) TLV: 0.05mg/m³ STEL: N/A IDLH: 35mg/m³ Skin: NO	Yellow-orange powder or dark gray, odorless flakes dispersed in air. VP: 0mm	INH ING CON	Irritated eyes, skin, throat, green tongue, metallic taste, eczema, cough, fine rales, wheezing, bronchitis	
Zinc oxide	PEL: 5mg/m³ REL: 5mg/m³ TLV: 2mg/m³ STEL: 10mg/m³ IDLH: 500mg/m³ Skin: NO	White, lustrous solid	INH	Metal fume fever, chills, muscular ache, nausea, fever, dry throat, cough, weakness, metallic taste, headache, blurred vision, low back pain, vomiting, fatigue, malaise	
Sulfuric Acid (water treatment chemical)	PEL: 1mg/m³ TLV: 0.2mg/m³ Skin: YES	Oily, colorless to slightly yellow, clear to turbid liquid	IHN ABS ING CON	Can cause irritation or corrosive burns to the upper respiratory system, lung irritation, pulmonary edema, burns to mouth throat and stomach, erode teeth, skin lesions	
Antiscale (water treatment chemical)	PEL: 1mg/m³ TLV: 0.2mg/m³ Skin: YES	Liquid, colorless, clear	IHN ABS ING CON	May cause severe skin burns and eye damage, can cause cancer, fatal if inhaled, may damage organs through prolonged exposure	
Antifoam (water treatment chemical)	N/E	Liquid emulsion, white, opaque	IHN ABS ING CON	May be harmful to skin, if inhaled and if swallowed	
Gases					
Carbon Monoxide	PEL: 50PPM REL: 35PPM TLV: 25PPM STEL: 200PPM (C) IDLH: 1200PPM Skin: NO	Colorless, odorless gas LEL: 12.5% UEL: 74% IP: 14.01eV VP: >35atm FI.P: N/A	INH	Headache, rapid breathing, nausea, tiredness, dizziness, confusion	

NOTES:

OSHA PEL Occupational Safety and Health administration Final Rule Limits, Permissible Exposure Limit for an

eight=hour, time-weighted average

ACGIH TLV American Conference of Governmental Industrial Hygienists, Threshold Limit Value for eight-hour, time-

weighted average

STEL Short-term Exposure Limit for a 15-minute, time-weighted average

NIOSH IDLH National Institute for Occupational Safety and Health, Immediately Dangerous to Life or Health

concentration

PPM Part of vapor or gas per millions parts of air by volume at 25°Celsius and 760mm Hg mg/m³ (milligram of

substance per cubic meter of air)

CA NIOSH has identified numerous chemicals that it recommends to be treated as potential or confirmed

human carcinogens.

(C) The (ceiling) concentration that should not be exceed during any part of the working exposure.

Skin Refers to the potential contribution to the overall exposure by the cutaneous (absorption) route, including

mucous membranes and eye, either by airborne or more particularly by direct contact with the substance.

UEL Upper Explosive Limit – the highest concentration of a material in air that produces an explosion in fire or

ignites when it contacts an ignition source.

LEL Lower Explosive Limit – the lowest concentration of the material in air that can be detonated by spark,

shock, fire, etc.

INH Inhalation
ABS Skin absorption
ING Ingestion

CON Skin and/or eye contact

4.2 Physical Hazards

Field employees and subcontractors may be exposed to a number of physical hazards during this project. Physical hazards that may be encountered include the following:

- Heat and cold stress
- Lifting hazards
- Slips, trips and falls
- Working around heavy equipment
- Drilling hazards
- Noise
- Use of hand and power tools
- Buried hazards
- Electrical hazards
- Underground and overhead utilities
- Working over water
- Travel to and from site

4.2.1 Heat Stress

Local weather conditions may produce an environment that will require restricted work schedules in order to protect employees from heat stress. The Project Manager or the Field Lead Team Member will observe workers for any potential symptoms of heat stress. Adaptation of work schedules and training on recognition of heat stress conditions should help prevent heat-related illnesses from occurring. Heat stress controls will be stated at 70°F for personnel in protective clothing and at 90°F for personnel in regular work clothing. Heat stress prevention controls include:

- Allow workers to become acclimatized to heat (three to six days)
- Provide rest breaks in a shaded or air-conditioned break area
- Provide sun screen to prevent sun burn
- Provide drinking water and electrolyte-replenishing fluids
- Keep ice readily available to rapidly cool field team members

The following Heat Stress Index should be used as a guide to evaluate heat stress situations. If the Heat Stress exceeds 105 degrees Fahrenheit, contact the project manager prior to conducting work for detailed guidance.

Heat Stress Index									
Temp.	Relative Humidity								
°F	10%	20%	30%	40%	50%	60%	70%	80%	90%
105	98	104	110	120	132				
102	97	101	108	117	125				
100	95	99	105	110	120	132			
98	93	97	101	106	110	125			
96	91	95	98	104	108	120	128		
94	89	93	95	100	105	111	122		
92	87	90	92	96	100	106	114	122	
90	85	88	90	92	96	100	106	114	122
88	82	86	87	89	93	95	100	106	115
86	80	84	85	87	90	92	96	100	109
84	78	81	83	85	86	89	91	95	99
82	77	79	80	81	84	86	89	91	95
80	75	77	78	79	81	83	85	86	89
78	72	75	77	78	79	80	81	83	85
76	70	72	75	76	77	77	77	78	79
74	68	70	73	74	75	75	75	76	77
NOTES: Add 10° F when protective clothing is being used; Add 10° F when in direct sunlight									

HSI Temp	Category	Injury Threat
Above 130° F	Extreme Danger	No work unless emergency exists. Contact Cardno ATC RSC and Corporate Risk Management Department prior to proceeding. Heat cramps or exhaustion likely, heat stroke possible if exposure is prolonged and there is physical activity.
105° to 130° F	Danger	Contact RSC prior to proceeding. Requires strict adherence to ACGIH Heat Stress Guidelines, including use of on-site WBGT equipment. Heat cramps or exhaustion likely, heat stroke possible if exposure is prolonged and there is physical activity.
90° to 105° F	Extreme Caution	Heat cramps or exhaustion likely, heat stroke possible if exposure is prolonged and there is physical activity.
80° to 90° F	Caution	Heat cramps or exhaustion likely, heat stroke possible if exposure is prolonged and there is physical activity.
Below 80° F	Normal Range	Typical conditions for time of year. Little or no danger under normal circumstances. As always, anticipate problems and work safely.

4.2.2 Cold Stress

Frostbite and hypothermia are two types of cold injury that personnel must be protected against during the performance of field duties. The objective is to prevent the deep body temperature from falling below 96.8° F and to prevent cold injury to body extremities. Two factors influence the development of a cold injury the ambient temperature, and wind velocity. Reduced body temperature will very likely result in reduced mental alertness, reduction in rational decision making, and/or loss of consciousness with the threat of death.

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Use appropriate cold weather clothing when temperatures are at or below 40° F as exposed skin surfaces must be protected. These protective items can include facemask, hand wear, and foot wear. Workers handling evaporative solvents during cold stress conditions will take special precautions to avoid soaking gloves and clothing because of the added danger of prolonged skin contact and evaporative cooling. Personnel will wear protective clothing appropriate for the level of cold and planned physical activity. The objective is to protect all parts of the body, with emphasis on the hands and feet. Eye protection against glare and ultraviolet light should be worn in snowy and icy conditions.

The work rate should not be so great as to cause heavy sweating that could result in wet clothing. If heavy work must be done, opportunities for rest breaks will be provided where workers have the opportunity to change into dry clothing. Conversely, plan work activities to minimize time spent sitting or standing still. Rest breaks should be taken in a warm, dry area. Windbreaks can also be used to shield the work area from the cooling effects of wind.

If extreme cold-related weather conditions occur, EAG field personnel and subcontractors will take the following precautions:

- Wear adequate insulated clothing when the air temperature drops below 40°F
- Reduce work periods in extreme conditions to allow adequate rest periods in a warm area
- Change clothes when work clothes become wet
- Avoid caffeine (which has diuretic and circulatory effects)

4.2.3 Lifting Hazards

Field personnel may be exposed to injury caused by lifting heavy objects and various pieces large or unwieldy pieces of equipment. All field team members will be trained in the proper methods for lifting heavy and/or large equipment and are cautioned against lifting objects that are too heavy or too big for one person. Proper lifting techniques include the following:

- Keep feet approximately shoulder width apart
- Bend at the knees
- Tighten abdominal muscles
- Lift with the legs
- Keep the load close to the body
- Keep the back upright
- Use the buddy system for larger or heavy pieces of equipment

All drums will be staged using an approved drum dolly or other appropriate equipment. Proper care will be taken in the use of this equipment. Healthy employees with no medical restrictions may lift and carry a maximum of 50 pounds using proper lifting and carrying techniques. This recommended weight limit may be reduced depending on physical and workplace factors.

4.2.4 Slips, Trips and Falls

The most common hazards that will be encountered during field activities will be slips, trips and falls. Field team members are trained to use common sense to avoid these hazards such as using work boots/safety shoes with nonskid soles. When working on slippery surfaces, tasks will be planned to decrease the risk of slipping via avoiding the slippery areas, if possible, or utilizing engineering controls. Engineering controls may involve the placement of supplemental material such as boards, gravel, or ice melt should be utilized to mitigate slippery conditions. Other engineering controls may involve the use of footgear traction control devices. Employees and subcontractors will avoid slippery surfaces, use engineering controls as appropriate, not hurry, and maintain good housekeeping.

4.2.5 Buried Hazards

Whenever the ground is penetrated, the potential for contacting buried hazards exists. During the planning/mobilization phase, prior to drilling or other excavation activities, EAG personnel and/or their contractors will establish the location of underground utility lines (gas, electrical, telephone, fiber optic cable, etc.) and/or substructures or other potential buried hazardous items. This may be conducted by review of historic utility and substructure maps, private utility locates, ground penetrating radar, or other technologies. If there is any evidence of utilities or subsurface objects/structures, drilling or excavation activities may be offset. If activities cannot be offset, measures will be taken to remove, disconnect, and/or protect the utilities and/or subsurface structures and/or objects. Every reasonable effort will be made to clear the area of intrusive work prior to fieldwork being started.

4.2.6 Electrical Hazards

It may be possible that overhead power lines will be in proximate locations during drilling or excavation activities. At least a 20 foot clearance must be maintained from overhead power lines. No equipment such as drill rigs or dump trucks can be moved while masts or buckets are in the upright position. Field personnel and subcontractors performing electrical work are required to be appropriately trained to work on the electrical systems in question prior to start of work. Authorization from project management personnel is required prior to any electrical work or work near overhead power lines. . When using extension cords, all field workers will ensure that they are in good working condition, are correctly rated for use, and do not contain abrasions such that bare wires could be exposed to the environment. Extension cords will not be used in wet areas without plugging the extension cord into a ground fault circuit interrupter (GFCI). GFCIs will detect a short circuit and cut power.

4.2.7 Heavy Equipment Operations

Heavy equipment must be operated in a safe manner and be properly maintained such that operators and ground personnel are protected.

Requirements for Operators

- Only qualified, trained, and authorized operators are allowed to operate equipment
- Seat belts will be used at all times in all equipment and trucks
- Operators will stop work whenever ground personnel or other equipment enter their work area;
 work will resume only when the area has been cleared
- No personnel may ride on equipment other than the Authorized Operator
- No personnel may be carried or lifted in the buckets or working "arms" of the equipment
- Spotters will be used when ground personnel are in the vicinity of heavy equipment work areas and/or when an operator is backing equipment near other structures or congested area

Requirements for Ground Personnel

- All ground personnel must wear orange protective vests in work areas with any operating heavy equipment
- Ground personnel will stay outside of the swing zone or work area of any operating equipment
- Ground personnel may only enter the swing or work area of any operating equipment when:
 - -They have attracted the operators attention and made eye contact
 - -The operator has idled the equipment down and grounded all extensions
 - -The operator gives the ground personnel permission to approach
- Ground personnel shall never walk or position themselves between any fixed object and running equipment or between two running pieces of equipment

Equipment

- Maintain operations manuals at the site for each piece of equipment that is present and in use
- Ensure operators are familiar with the manual for the equipment and operate the equipment within the parameters of the manual
- Ensure all equipment is provided with roll-over protection systems
- Verify that seatbelts are present and functional in all equipment
- Prohibit the use of equipment that has cab glass which is broken or missing
- Ensure that backup alarms are functional on all trucks and equipment
- Require all extensions such as buckets, blades, forks, etc. to be grounded when not in use
- Require brakes to be set and wheels chocked (when applicable) when not in use

Daily inspections of equipment are required using a Daily Heavy Equipment Safety Checklist. Equipment deemed to be unsafe as a result of daily inspection will not be used until required repairs or maintenance occurs. During maintenance/repair, ensure that motors are turned off, all extensions are grounded or securely blocked, controls are in a neutral position, and the brakes are set.

4.2.8 Drilling and Excavation Safety

Prior to any intrusive work, as previously mentioned, the location of underground utilities, such as sewer, telephone, gas, water and electric lines must be determined and plainly staked. Necessary arrangements must be made with the utility company or owner for the protection, removal or relocation of the underground utilities. In such circumstances, excavation will be done in a manner that

does not endanger the field personnel engaged in the work or the underground utility. Utilities left in place will be protected by barricading, shoring, suspension or other measures, as necessary.

The use of unsafe or defective equipment is not permitted. Equipment must be inspected regularly. If found to be defective, equipment must be immediately removed from use and either repaired or replaced prior to resuming work with that equipment. Field personnel will be familiar with the location of first-aid kits and fire extinguishers. Telephone numbers for emergency assistance must be prominently posted and kept current.

Good housekeeping conditions will be observed in and around the work areas. Suitable storage places will be provided for all materials and supplies. Pipe, drill rods, etc. must be securely stacked on solid, level sills. Work surfaces, platforms, stairways, walkways, scaffolding, and access ways will be kept free of obstructions. All debris will be collected and stored in piles or containers for removal and disposal.

The area of the site to undergo intrusive activity must be walked over with the drillers and/or heavy equipment operators to identify all work locations, as well as making sure all marked utilities are seen by those doing the intrusive work.

Drilling Specific Concerns:

In areas where utilities have been identified or may be suspected, pre-drilling clearance such handaugering, hand excavation (with shovels or post-hole diggers), or air-knifing to a depth of at least 5' below ground surface (BGS) may be required. The Project Manager will provide guidance in those instances on what has been determined as an acceptable means of clearing drilling locations. It should be noted that if the soil lithology changes to gravel within those 5 feet, that may be an indication of a utility trench and extreme caution should be taken OR the drilling location should be offset 5 horizontal feet from the original location. Should 3 consecutive attempts be made without success to offset a particular drilling location, the field personnel should stop and contact the Project Manager for further instruction.

Special precaution must be taken when using a drill rig on a site within the vicinity of electrical power lines and other overhead utilities. Electricity can shock, burn and cause death. When overhead electrical power lines exist at or near a drilling site, all wires will be considered dangerous.

A check will be made for sagging power lines before a site is entered. Power lines will not be lifted to gain entrance. The appropriate utility company will be contacted and a request will be made that it lift or raise cut off power to the lines.

The area around the drill rig will be inspected before the drill rig mast (derrick) is raised at a site in the vicinity of power lines. The minimum distance from any point on the drill rig to the nearest power line will be determined when the mast is raised or is being raised. The mast will not be raised and the drill rig will not be operated if this distance is less than 20 feet, because hoist lines and overhead power lines can be moved toward each other by the wind.

Before the mast is raised, personnel will be cleared from the immediate area, with the exception of the operator and a helper, when necessary. A check will be made to ensure safe clearance from energized power lines or equipment (minimum 20-foot clearance). Unsecured equipment must be removed from the mast and cables, mud lines and catline ropes must be adequately secured to the mast before raising. After it is raised, the mast must be secured to the rig in an upright position with steel pins.

Excavation Specific Concerns:

For excavation work, entry into an excavated area or trench will only be allowed when:

- Shoring, sloping, and spoil pile placement is in conformance with 29 CFR 1926 Subpart P, and
- Personal protection and monitoring, as detailed in this HASP, has been implemented.

All excavation contractors are required to provide an OSHA trained and certified Competent Person. Daily inspections of excavations, the adjacent areas, and protective systems shall be made by the Competent Person for evidence of a situation that could result in a possible cave-in, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the Competent Person prior to the start of work and as needed throughout each shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence. All inspections made by the Competent Person should be recorded in the field log book. No personnel shall perform work in a trench or excavation that contains accumulated water (any accumulated water will need to be either pumped out until the trench/excavation is dry, or the accumulated water is allowed to disperse naturally). Each employee in an excavation shall be protected from cave-ins by an adequate protective system except when excavations are made entirely in stable rock or the excavation is less than 5 feet in depth and examination by the Competent Person provides no indication of a potential cave-in. Protective systems consist of sloping or benching, use of trench boxes or other shielding mechanisms, or the use of a shoring system in accordance with the regulations.

When mobile equipment is operated adjacent to an excavation and the operators/drivers do not have a clear and direct view of the edge of the excavation, a warning system such as barricades, hand or mechanical signals, or spotters are required.

Adequate protection shall be provided to protect employees from loose rock or soil that could pose a hazard to personnel in the excavation. All temporary spoil piles shall be kept at least 2 feet away from the edge of the excavation. Spoil piles should be placed to channel rainwater or other run-off water away from the excavation.

All excavations deeper than 4 feet deep and which have the potential to have a hazardous atmosphere or oxygen deficient atmospheres (less than 19.5% oxygen) must be tested to ensure safe working conditions, prior to entry.

4.2.9 Use of Hand Tools and Portable Power Tools

Hand tools will be kept in good repair and used only for their designed purposes. Proper protective eyewear will be worn when using hand tools and portable power tools. Unguarded sharp-edged or

pointed tools will not be carried in field personnel's pockets. The use of tools with mushroomed heads, split or defective handles, worn parts, or other defects will not be permitted. Inspect all tools prior to start-up or use to identify any defects. Tools that have become unsafe will be reconditioned before reissue or they will be discarded and replaced. Throwing or dropping of tools from one level to another will not be permitted; rather, containers and hand lines will be used for transporting tools from one level to another if working at heights.

Non-sparking tools will be used in atmospheres where sources of ignition may cause fire or explosion. Electric-powered shop and hand tools will be of the double-insulated, shockproof type, or they will be effectively grounded. Power tools will be operated only by designated personnel who are familiar and trained with their use. When not in use, tools will not be left on scaffolds, ladders or overhead working surfaces.

4.2.10 Noise

Exposure to high levels of noise may occur when working near drill rigs or other heavy equipment. Also, depending upon where the work is being performed, local equipment (e.g., airports, factory machines, etc.) may produce high levels of noise. A good indication of the need for hearing protection is when verbal communication is difficult at a distance of 2-3 feet. Personnel will be provided with ear plugs and/or earmuffs when exposed to noise levels in excess of the 8-hour Permissible Exposure Limit (PEL) of 90 decibels.

4.2.11 Work Zone Traffic Control

Personnel will exercise caution when working near areas of vehicular traffic. Work zones will be identified by the use of delineators (traffic cones, flags, vehicles, DOT approved devices, temporary or permanent fencing, and/or safety barrier tape). Personnel will wear reflective vests when working in these areas. Depending on frequency, proximity, and nature of traffic, a flag person may also be utilized.

4.2.12 Work Over Water

If personnel will be working near, above or immediately adjacent to or within 6 feet of water that is 3 feet or more deep or where water presents a drowning hazard (e.g., fast-moving stream, water body with a soft bottom), employees are required to a U.S. Coast Guard (USCG) approved personal flotation device (PFD). All PFDs must have reflective tape on them to facilitate visibility. Employees must inspect PFDs daily before use for defects. Do no use defective PFDs.

4.2.13 Vehicle Use

Personnel must use caution when driving to, from, and across the site, paying special attention to other site traffic, as well as weather and road conditions. Heavy equipment should be transported during non-rush hour traffic.

4.3 Biological Hazards

Site activities on this Site may expose workers to other hazards such as poisonous plants, insects, animals, and indigenous pathogens. Protective clothing and respiratory protection equipment, and being capable of identifying poisonous plants, animals, and insects, can greatly reduce the chances of exposure. Thoroughly washing any exposed body parts, clothing, and equipment will also protect against infections. Avoiding contact with biological hazards is the best way to prevent potential adverse health effects. Recognition of potential hazards is essential. When avoidance is impractical or impossible, PPE, personal hygiene, good general health and awareness must be used to prevent adverse effects. If working in wooded/grassy areas, use appropriate insect repellants (containing DEET and/or Permethrin) and apply them per the manufacturers' directions. The following is a list of biological hazards that may be encountered while performing field activities at the project site and surrounding areas:

DIGIOGICAL III	CONTROL MEASURES
BIOLOGICAL HAZARD and LOCATION	CONTROL MEASURES
Snakes typically are found in underbrush and tall grassy areas.	If you encounter a snake, stay calm and look around; there may be other snakes. Turn around and walk away on the same path you used to approach the area. If a person is bitten by a snake, wash and immobilize the injured area, keeping it lower than the heart if possible. Seek medical attention immediately. DO NOT apply ice, cut the wound or apply a tourniquet. Carry the victim or have him/her walk slowly if the victim must be moved. Try to identify the snake: note color, size, patterns and markings.
Poison ivy, poison oak and poison sumac typically are found in brush or wooded areas. They are more commonly found in moist areas or along the edges of wooded areas.	Become familiar with the identity of these plants. Wear protective clothing that covers exposed skin and clothes. Avoid contact with plants and the outside of protective clothing. If skin contacts a plant, wash the area with soap and water immediately. If the reaction is severe or worsens, seek medical attention.
Exposure to bloodborne pathogens may occur when rendering first aid or CPR, or when coming into contact with medical or other potentially infectious material or when coming into contact with landfill waste or waste streams containing such infectious material.	Training is required before a task involving potential exposure is performed. Exposure controls and personal protective equipment (PPE) area required. Hepatitis B vaccination must be offered before the person participates in a task where exposure is a possibility.
Bees, spiders and other stinging insects may be encountered almost anywhere and may present a serious hazard particularly to people who are allergic.	Watch for and avoid nests. Keep exposed skin to a minimum. Carry a kit if you have had allergic reactions in the past and inform the Project Manager and/or the buddy. If a stinger is present, remove it carefully with tweezers. Watch for allergic reaction; seek medical attention if a reaction develops.
Ticks typically are in wooded areas, bushes, tall grass and brush. Ticks are black, black and red or brown and can be up to one-quarter inch in size.	Avoid tick areas. Wear tightly woven, light-colored clothing with pants tucked into boots or socks. Spray outside of clothing with insect repellent containing permethrin. Check yourself for ticks often. If bitten, carefully remove tick with tweezers. Report the bit to the Project Manager. Look for symptoms of Lyme

disease that include a rash that looks like a bulls eye
and chills, fever, headache, fatigue, stiff neck or bone
pain. If symptoms appear, seek medical attention.

5.0 PERSONAL PROTECTIVE EQUIPMENT

PPE ensembles are used to protect employees and subcontractors from potential contamination hazards while conducting project field activities. Level D is expected to be used for most activities at the site. The following subsections describe the PPE requirements for the field activities.

5.1 Level D Protection

When the atmosphere contains no known hazards and work functions preclude splashes, immersions or the potential for unexpected inhalation of or contact with hazardous levels of any chemicals, Level D protection may be used. Level D does not provide respiratory protection and only provides minimal dermal protection. The Level D ensemble consists of the following:

- Work clothes that may consist of a short or long-sleeved cotton shirt and cotton pants, cotton overalls, or disposal overalls such as Tyvek™
- Steel-toe/steel-shank work boots
- Safety glasses with side shields
- Hearing protection, as necessary
- Hand protection, as appropriate
- Hard hat when working around overhead equipment such as a drilling rig
- Reflective vests when working around heavy equipment or near roadways
- Body harness and life vests when working on or within 6 feet of bulkheads, at heights, or in 3 feet or more of standing water (such as in Tin Mill Canal)

5.2 Modified Level D Protection

This is the level of protection that may be needed for material handling, sampling operations, and operation of remediation equipment when splash hazards are present. Modified Level D protection consists of the following:

- Disposable overalls such as polyethylene-coated Tyvek™
- Latex, vinyl, or nitrite inner gloves when handling liquids/fluids
- Nitrile outer gloves (taped to outer suit)
- Chemical-protective over-boots (taped to outer suit)
- Steel-toe/steel-shank, high-ankle work boots
- Hard hat with face shield
- Safety glasses with side shields or goggles
-) L
- Hearing protection, as necessary

5.3 Level C Protection

Level C protection will be used when site action levels are exceeded and respiratory protection is required. The Level C ensemble consists of Modified Level D with the following modifications:

- Half or full-face air-purifying respirator (APR) equipped with appropriate cartridges/filters
- Chemical resistant clothing such as poly-coated Tyvek™
- Inner and outer nitrile gloves
- Chemical-resistant safety boots or boot covers to go over safety boots

Upgrading or downgrading the level of protection used by EAG employees and subcontractors is a decision made by EAG based on the air monitoring protocols presented in Section 7.0 for respiratory protection, the potential for inhalation exposure to toxic chemicals, and the need for dermal protection during the activity.

5.4 First Aid, Emergency and Safety Equipment

The following first aid, emergency and safety equipment will be maintained onsite at the work area:

- A portable eye wash
- Appropriate ABC-type fire extinguishers (minimum of 10 pounds; remediation systems to house individual 20 pound extinguishers) carried in every vehicle used during field operations
- Industrial first-aid kit (one 16-unit that complies with American National Standards Institute (ANSI) Z308A for every 25 persons or less)
- Bloodborne pathogen precaution kit with CPR mouth shield
- Instant cold packs
- Soap or waterless hand cleaner and towels
- American Red Cross First Aid and CPR Instruction Manuals

6.0 PERSONNEL TRAINING AND STANDARD SAFETY PROCEDURES

Employees must have received, at the time of project assignment, a minimum of 40 hours of initial OSHA health and safety training for hazardous waste site operations. Personnel who have not met the requirements for the initial training will not be allowed in the Exclusion Zone (EZ) or Contamination Reduction Zone (CRZ) of any active work area. A copy of each subcontractor site worker's 40-hour training certificate must be sent to the Project Manager for review prior to the start of the site work.

The 8-hour refresher training course must be taken at a minimum of once per year. At the time of the job assignment, all site workers must have received 8 hours of refresher training within the past year. This course is required of all field personnel to maintain their qualifications for hazardous waste site work. A copy of each subcontractor site worker's most recent 8-hour refresher training certificate must be sent to the Project Manager for review prior to the start of the site work.

A site-specific safety orientation will be conducted by EAG for all EAG employees and subcontractors engaged in fieldwork.

6.1 Onsite Safety, Health and Emergency Response Training

The OSHA 1910.120 standard requires that site safety and health training be provided by a trained, experienced supervisor. "Trained" is defined to mean an individual that has satisfactorily completed the OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) course and 8-hour site supervisor training. Training will be offered at the time of the initial task assignment and/or whenever new chemicals are introduced into the workplace. Training will include all applicable regulatory requirements, location of the program, inventory and MSDSs, chemicals used and their hazards (chemical, physical, and health), how to detect the presence or release of chemicals, safe work practices and methods employees can take to protect themselves from hazards, how to read MSDSs and site or project specific information on hazard warnings and labels in use at that location. All training will be documented and training certificates will be kept in the employee's permanent training file. All applicable training will also require annual refreshers.

EAG qualified personnel must also provide safety meetings.

6.2 Standard Safety Procedures

This section describes the standard safety procedures that EAG requires all onsite personnel to follow during site activities.

6.2.1 General Safety Work Practices

All onsite employees and subcontractors will observe the following general safety work practices:

- Health and safety tailgate briefings will occur to introduce new activities, any new safety issues, and emergency egress routes for work areas; any significant change (added personnel, change in scope, or change in field conditions) will trigger a second (or more) tailgate meeting to address whatever change occurred
- No food, drink, or tobacco products will be allowed in the Exclusion and Contamination Reduction Zones
- Loose clothing, hair, and/or jewelry will not be permitted around moving or rotating equipment
- The "buddy system" will be implemented as necessary whereby a pair of co-workers watches out for each other while in proximity of potential physical work hazards
- Good housekeeping of all work areas will be maintained on an ongoing basis

6.2.2 Hand Safety

This standard is intended to protect employees from activities that may expose them to injury. This standard provides information on recognizing those conditions that require personal protective equipment (PPE) or specific work practices to reduce the risk of hand injury.

Appropriate gloves must be worn when persons work with materials or equipment that presents the potential for hand injury due to sharp edges, corrosives, flammable and irritating materials, extreme temperatures, splinters, etc.

<u>Guidelines for Working With and Around Equipment (Hand Tools, Portable Powered Equipment)</u>:

- Employees should be trained in the use of all tools.
- Keep hand and power tools in good repair and use them only for the task for which they were designed.

- Inspect tools before use and remove damaged or defective tools from service.
- Operate tools in accordance with manufacturer's instructions.
- Do not remove or bypass a guarding device for any reason.
- Keep surfaces and handles clean and free of excess oil to prevent slipping.
- Wear proper PPE, including gloves, as necessary.
- Do not carry sharp tools in pockets.
- Clean tools and return to the toolbox or storage area upon completion of a job.
- Before applying pressure, ensure that wrenches have a good bite.
- Brace yourself by placing your body in the proper position so you will not fall if the tool slips.
- Make sure hands and fingers have sufficient clearance in the event the tool slips.
- Always pull on a wrench, never push.
- When working with tools overhead, place tools in a holding receptacle when not in use.
- Do not throw tools from place to place or from person to person, or drop tools from heights.
- Inspect all tools prior to start-up or use to identify any defects.
- Powered hand tools should not be capable of being locked in the ON position.
- Require that all power-fastening devices be equipped with a safety interlock capable of activation only when in contact with the work surface.
- Do not allow loose clothing, long hair, loose jewelry, rings, and chains to be worn while working with power tools.
- Do not use cheater pipes.
- Make provisions to prevent machines from restarting through proper lockout/tagout.

Guidelines for using Cutting Tools:

- Always use the specific tool for the task. Tubing cutters, snips, self- retracting knives, concealed blade cutters, and related tools are task specific and minimize the risk of hand injury. For more information about cutting tools, see Supplemental Information A.
- Fixed open-blade knives (FOBK) are prohibited from use. Examples of fixed open-blade knives include pocket knives, multitools, hunting knives, and standard utility knives.
- When utilizing cutting tools, personnel will observe the following precautions to the fullest extent possible:
- Use the correct tool and correct size tool for the job.
- Cut in a direction away from yourself and not toward other workers in the area.
- Maintain the noncutting hand and arm toward the body and out of the direction of the cutting tool if it were to slip out of the material being cut.
- Ensure that the tool is sharp and clean; dirty and dull tools typically cause poor cuts and more hazard than a sharp, clean cutting tool.
- Store these tools correctly with covers in place or blades retracted, as provided by the manufacturer.
- On tasks where cutting may be very frequent or last all day (e.g., liner samples), consider Kevlar® gloves in the PPE evaluation for the project.
- Do not remove guards on paper cutters.

6.2.3 Respiratory Protection

Based on air monitoring, an upgrade to Level C protection may be indicated. Half or full-face APRs will be utilized for protection against organic vapors and particulates. All employees required to wear respirators will be need to be medically cleared, in writing to do so by a qualified Occupational Physician.

All respirator users must be trained before they are assigned a respirator, annually thereafter, whenever a new hazard or job is introduces and whenever employees fail to demonstrate proper use or knowledge. Training will include, at a minimum:

- Why the respirator is necessary and what conditions can make the respirator ineffective.
- What limitation and capabilities of the respirators area.
- How to inspect, put on and remove and check the seals of the respirator.
- What respirator maintenance and storage procedures are.
- How to recognize medicals signs and symptoms that may limit or prevent effective use of the respirator.
- The engineering and administrative controls being used and the need for respirators.
- The hazards and consequences of improper respirator use.
- How to recognize and handle emergency situations.

Training will be documented and training certificated will be kept in the employee's permanent training file.

6.2.4 Personal Hygiene Practices

The field team must pay strict attention to sanitation and personal hygiene requirements to avoid personal contamination. The following instructions will be discussed and must be followed:

- During field activities, never put anything in the mouth, including fingers
- All employees must wash their hands, forearms, face, and neck before eating drinking, smoking or using the restroom
- Smoking is prohibited except in designated areas outside the work zone
- At the end of the day, all employees will shower upon returning home or to their hotel

6.2.5 Electrical Safety

All extension cords used onsite must be heavy-duty variety and must be properly grounded. All temporary circuitry must incorporate the use of GFCI devices. Refer to electrical safety in Section 4.2.6, Electrical Hazards.

6.2.6 Fire Safety

All flammable liquids will be used only for their intended purpose and stored and handled only in approved containers. Portable containers must be the approved red safety containers equipped with flame arresters and self-closing lids. All transfers of flammable liquids must be made with the containers grounded or bonded. Also, gasoline containers will be clearly labeled and storage areas (if

applicable) will be posted with "No Smoking" signs. Fire extinguishers will be stalled in all areas that contain flammable liquids.

6.2.7 Illumination

All work is planned for daylight hours. No special requirements are anticipated. However, should any work take place outdoors after daylight hours, suitable lighting will be required. In addition, suitable lighting is to be provided in each remediation system building or enclosure.

6.2.8 Sanitation

Potable water and toilet facilities will be provided in compliance with the OSHA 1926.51 standard. Any container used to distribute drinking water shall be clearly marked and not used for any other purpose. Single drinking cups will be supplied, both a sanitary container for the unused cups and a receptacle for disposed of the used cups will also be provided. Port-a-johns will be provided since there are no sanitary sewers on the job site.

7.0 EXPOSURE MONITORING PLAN

This section describes air and personnel monitoring protocols, sampling methods, and instrumentation to be used, as well as the methods and frequency of sampling instrument calibration and action levels for potential work site hazards. When engaged in air monitoring, EAG personnel and subcontractors must use the forms to record air monitoring data and air monitoring instrument calibration records. All monitoring records/forms are to be maintained in the project file by the EAG Project Manager.

7.1 Air Monitoring

The surveillance program is established to detect changes in the ambient air at the work site and to ensure the continuing safety of the work zones and adequacy of the level of worker protection. During field activities, the designated field team member will monitor the work site for combustible gas concentrations and organic vapors. Calibration of all monitoring equipment will be performed in accordance with the manufacturers' procedures by trained EAG employees and subcontractors. The Project Manager, Project Field Team Leader or representative will be notified immediately of any contaminant levels that could trigger an upgrade in PPE or cause a suspension of site activities.

One or more of the following direct-reading instruments may be used to aid in this
determination. Photoionization Detectors (PID) and Flame Ionization Detectors (FID) will
measure non-specific organic gases and vapors. Combustible Gas Indicators (CGI) will detect
explosive atmospheres. Oxygen (O2) meters will detect fluctuations in oxygen concentrations.
These instruments should be calibrated or bump tested daily and whenever the readings may be
erratic. All readings should be recorded in the field log books.

Air monitoring results obtained from the breathing zone during field activities will be recorded in field log books. All such records will also include the location, date/time, weather conditions, person monitored, background concentration, and identification of specific contaminant whenever possible. Air monitoring information will be utilized to evaluate personnel exposure and assess the appropriateness of PPE for Site conditions.

7.1.1 Combustible Gas and Oxygen Deficiency/Excess Monitoring

Explosive gas concentrations are not expected to exceed 10% of the lower explosive level (LEL). Should the need be indicated for monitoring, action guidance for the CGI/O2 meter responses is contained in **Table 7-1**.

Table 7-1

CGI/Oxygen Meter Action Levels		
Meter Response	Action	
CGI response 0%-10% LEL	Continue normal operations	
CGI initial response >10% and <20% LEL	Eliminate all sources of ignition from the work	
	area; temporarily retreat from work area for 15-30	
	minutes and then monitor area again	
CGI response after 15-30 minute retreat >10% and	Retreat from work area; notify Project Manager	
<20% LEL		
CGI response >20%	Discontinue operations; retreat from work area	
Oxygen level <19.5%	Retreat from work area; notify Project Manager	
Oxygen level >23.5%	Retreat from work area; notify Project Manager	

7.1.2 Organic Vapor Concentrations

Real-time monitoring for organic vapor concentrations in the breathing zone and down hole will be conducted during field operations (installation of groundwater monitoring and groundwater sampling by EAG and EAG subcontractor personnel) with a PID equipped with a 10.2- or 11.7-electron volt (eV) probe. The PID will be taken into the field and operated during site activities where contaminated soil and/or groundwater may be present. Air monitoring will be conducted during well installation and when a well is opened for groundwater measurements. Measurements will be made at the well head and personnel breathing zones where activities are being performed. The instrument will be calibrated using ultra-high purity air and isobutylene vapor of known concentration before and after use each day. Air calibration measurements will be documented in writing and kept in the project file. Action guidance for PID responses is contained in **Table 7-2**.

Table 7-2

Action Levels for General Site Work		
Meter Response in Breathing Zone (minimum of 3 minutes)	Action Required	
<5ppm above background	Use Level D PPE	
>5ppm above background	Level C PPE, including half or full-face APR with organic vapor cartridges/P100 filters	
>50ppm above background	Stop work	
Action Levels for Handling NAPL		
Meter Response in Breathing Zone (minimum of 3 minutes)	Action Required	
<1ppm above background	Use Modified Level D PPE	
>1ppm to <10ppm	Level C PPE, including half or full-face APR with organic vapor cartridges	
>10ppm above background	Immediately withdraw; monitoring will continue until action levels will allow safe re-entry	

If air concentrations of organic vapors are greater than 5 ppm above background in the breathing zone for a 3-minute period, personnel will stop work, retreat from site, and allow time (at least 15 minutes) for vapors to dissipate. If monitoring indicates that concentrations still exceed 5 ppm, workers will upgrade to Level C PPE. If monitoring indicates that concentrations exceed 50 ppm, work will be stopped until site conditions can be re-evaluated.

These action levels are based on the assumption that the major component of free product being recovered will be benzene or naphthalene.

Work involving NAPL recovery from monitoring wells will be conducted in Level C PPE. This level may be downgraded based on air monitoring data and actual field conditions. Downgrading of PPE must be approved by the PM and HSE staff. If ventilation is conducted, additional air monitoring will be performed to the resumption of work to determine the level of PPE required.

7.2 Physical Conditions Monitoring

Site workers will be monitored by the Project Manager for signs of weather-related symptoms from exposure to excessive heat or cold.

Whenever the air temperature exceeds 70°F for personnel wearing chemical protective clothing or 90°F for personnel wearing regular work clothes, the Project Manager will assess conditions that may cause heat stress in site workers.

8.0 MEDICAL SURVEILLANCE

This section discusses the medical surveillance program, how the results are reviewed by a physician and how participation is documented.

8.1 Medical Surveillance Program

All personnel who will be performing any task where potential exposure to hazardous material exists will undergo medical surveillance as outlined in OSHA 29 CFR 1910.120(f). All personnel performing tasks in the Exclusion Zone or Contamination Reduction Zone will be required to have passed the EAG medical surveillance examination (or equivalent), performed by a licensed Occupational Physician. The Project Manager will verify that all EAG and subcontractor personnel meet applicable OSHA medical surveillance requirements.

Applicable field employees will undergo an annual comprehensive medical examination, including a comprehensive health history, blood chemistry with complete blood count and differential, urinalysis, medical history, required chest x-rays, audiogram, pulmonary function testing, testing for heavy metals (as needed), and a physician's interpretation of each employee's medical surveillance examination, including the ability of the employee to wear a respirator. A comprehensive medical examination will be performed if an employee develops signs or symptoms indicating possible overexposure to hazardous substances and/or heat or cold stress.

8.2 Physician Review

All medical surveillance and examination results are reviewed by a licensed physician who is certified in Occupational Medicine by the American Board of Preventive Medicine. EAG employee participation in the medical surveillance program is a part of their permanent medical record maintained in the employee's home office. A copy of the current medical clearance signed by the occupational health physician for all EAG employees must be maintained at the home office.

9.0 SITE CONTROL MEASURES AND DECONTAMINATION

To provide for the protection of public health and safety and minimize the possibility of transferring hazardous substances from the site, contamination control procedures are required. These procedures consist of site control measures (which entail the delineation of work zones, communications, and site security) and decontamination procedures (which are necessary for both personnel and equipment). Contaminants that may be uncovered during sampling operations must not be transferred outside the work zone unless properly containerized, and must be removed from clothing, personnel, and equipment prior to relocation from that zone. This section discusses site control measures and decontamination procedures to be used during the collection of samples, the installation of soil borings and/or groundwater monitoring/remediation wells, excavations, and other intrusive work where contact with impacted soils and groundwater could occur by EAG and/or EAG subcontractor personnel.

9.1 Site Control Measures

Site control can be achieved by effectively delineating the work zone, providing appropriate communication, and establishing site security.

9.1.1 Work Zone Delineation

To minimize the transfer of hazardous substances from the site and to ensure proper protection of employees and subcontractors, work zones will be established by the Field Project Team Leader. Applicable site work and the associated requirement for work zones will be determined by the Project Manager. The work area will be divided into an Exclusion Zone (EZ), a Contamination Reduction Zone (CRZ), and a Support Zone (SZ). A typical work zone delineation setup is shown as **Figure 9-1**, below.

Exclusion Zone (EZ)

Contamination does or could exist in this zone. Only properly authorized and trained individuals (refer to Section 6.0) wearing appropriate PPE will be allowed to enter and work in this zone. All people entering the EZ must wear, at a minimum, Level D protection. An entry and exit point for personnel and equipment will be established at the periphery of the EZ (between the EZ and the CRZ) to regulate the flow of personnel and equipment.

Contamination Reduction Zone (CRZ)

Between the EZ and the SZ will be the CRZ, which will provide a transition between the potentially contaminated EZ and the clean SZ. The CRZ (located upwind of the EZ, if possible) will be a corridor leading from the EZ and will serve as a buffer to further reduce the probability of the SZ becoming contaminated. Exit from the EZ will only be allowed through this CRZ. The CRZ will provide additional assurance that the physical transfer of contaminating substances on people, equipment, and/or in the air will be limited through a combination of decontamination and zone restrictions. Within this zone, employees and subcontractors may perform personal decontamination (e.g., face and hand washing), and certain PPE and small equipment decontamination. Buckets or wash basins for boot

washing and equipment decontamination will be stationed on a sheet of plastic (a minimum of 8 feet by 8 feet), the boundaries of which will constitute the CRZ. Support Zone (SZ)

The Support Zone will be considered a non-contaminated area. The location of support facilities in the SZ will be upwind of the EZ (where possible) and readily accessible to the nearest road. The field office/support facilities, equipment vehicles, a first aid station and a visitors/personnel entry and exit log for the work site will be located in this zone. Potentially contaminated personal clothing, equipment and samples are not permitted in this zone unless properly containerized.

Drill rig, backhoe, etc.

Support Zone

Contamination Reduction Zone

Figure 9-1
Typical Exclusion, Contamination Reduction, and Support Zone setups

9.1.2 Communications

A loud and clear form of communication should be made available for Site personnel entering the work zones. Site communication may be in the form of hand signals, voice, or other communication devices. All forms of communication should be understood by all workers on the Site prior to starting work. Offsite communications may be conducted with mobile phones or walkie-talkies only if the atmosphere has been deemed non-explosive, and the person using the mobile device is in the SZ while placing the call, or inside the cab of a stationary vehicle.

9.1.3 Site Security

The Sparrows Point facility is not open to the public, and there is a strictly monitored main entrance with a security guard on duty at all times who only allows authorized personnel onto the Site. This limited access to the facility should eliminate the need for many requirements for specific site security except those needed to maintain work zone integrity, such as visible barriers around open excavations or EZs and CRZs. No site visitors will be allowed to travel unescorted by EAG or subcontractor personnel around the facility.

Once site visitors arrive at their intended work zone, they must check in with the Field Team Lead. If visitors are authorized to enter the CRZ and/or the EZ, they must have completed OSHA 1910.120 medical surveillance and training requirements (refer to Section 8.0 and Section 6.0). Visitors must wear

appropriate PPE before they will be allowed to enter the CRZ and/or the EZ. They must also be taken through this HASP during a brief tail-gate meeting and sign the Acknowledgement page in the back prior to engaging in any activities inside the CRZ or the EZ. All site visitors must follow the same site control measures and decontamination procedures as EAG personnel and subcontractors. The Project Manager must also be informed of each visitor's name, purpose for their visit, time of entry (and exit), location of tasks they wish to perform, whether they completed their intended task(s), and any other relevant information pertaining to their visit.

9.2 **Decontamination Procedures**

Decontamination of employees, subcontractors, and equipment leaving the EZ will be performed to minimize human exposure to hazardous substances and to minimize the spread of contamination to surrounding areas. The purpose of the CRZ is to provide a location to perform limited personnel decontamination and certain PPE and small equipment decontamination.

9.2.1 Personnel Decontamination

Persons leaving the EZ must pass through the CRZ and follow decontamination procedures before entering the SZ. Hand tools and other sampling equipment used in the EZ and reusable PPE (boots, safety glasses, etc.) will be appropriately cleaned prior to removal from the site each day. The step-by-step sequence for personnel decontamination is as follows:

- Remove boot covers (if used) at the boot washing station and place them in the disposal container provided
- Wash outer gloves and chemical resistant boots (if used) at the boot washing station
- Remove wrist tape (if used) and outer gloves and place them in the disposal container provided
- Remove ankle tape (if used) and disposable coveralls (if used) and place them in the disposal container provided
- Remove respirators (if used) and place each in designated locations in the CRZ
- Remove inner gloves and discard in the disposal container provided
- Wash hands and face and proceed to the SZ

Respirators must be fully decontaminated after each use by the personnel who previously wore them. All project employees and subcontractors are required to take a thorough soap and water shower in their home or motel room at the end of each workday. If monitoring or a general exposure assessment indicates that an employee has become contaminated, the employee or subcontractor will notify the EAG Project Manager and the Field Team Lead as soon as the contaminated state has been discovered.

9.2.2 Equipment Decontamination

All equipment leaving the EZ must be decontaminated either within the CRZ or at the central decontamination area. Small equipment, such as hand tools, will be thoroughly decontaminated within the CRZ before being placed in the SZ. The field tools may be scrubbed visually clean using a detergent solution (Alconox/Liquinox) with water and a stiff, long-bristled scrub brush. Following the solution scrubbing, the tools may be rinsed with distilled water or isopropyl alcohol. Any vehicle working in an EZ will be decontaminated before leaving the site. The vehicle will be cleaned by sweeping excess soil and debris off the wheels. A high-pressure sprayer will then be used to wash the wheels, if necessary.

Each piece of equipment will be inspected after cleaning for any soil remaining on the tires or elsewhere. All vehicles will be cleaned to the satisfaction of the Field Team Lead or a designated assistant prior to entering the SZ or leaving the site. Employees or subcontractors performing decontamination shall wear the appropriate level of PPE (refer to Section 5.0).

9.2.3 Waste Management

The Project Manager and the Field Team Leads will be responsible for overseeing the containerization and disposal of any field derived wastes. Contaminated or suspected contaminated field derived wastes shall be disposed of in accordance with all local, state, and/or federal regulations. Field derived wastes include decontamination rinse waters and other related decontamination generated wastes.

Soils and groundwater expected to be encountered during any sampling or intrusive work not to be contaminated, based on existing data, may be discharged to the ground surface in the immediate vicinity of the monitoring well. However, any known or suspected to be contaminated soil (in small quantities) or groundwater will be containerized for future removal, likely in 55-gallon drums or other approved storage vessels. Depending on the suspected contaminants, the recovered groundwater may be sent through one of the onsite groundwater treatment units. However, the treatment unit must be designed to address the contaminants of concern in the groundwater being treated. Otherwise, the liquid must be staged onsite for eventual offsite disposal at an approved facility.

Impacted soil, if in drums, will be staged in an area designated by the Project Manager or Field Team Lead for eventual disposal. For large excavations, where excavated soil is stockpiled, it may be necessary to place soils on plastic and cover with plastic to prevent any potential leachable runoff. The Project Manager and/or Field Team Lead will provide the proper guidance necessary for handling bulk soil piles.

Any NAPL recovered via remediation systems or manual recovery efforts will be properly containerized and either disposed of offsite as a recyclable material, if possible, or as a hazardous waste. The receiving facility must be an approved facility.

10.0 EMERGENCY RESPONSE AND CONTINGENCY PROCEDURES

The objective of emergency response and contingency procedures is to ensure that effective actions are implemented in a timely manner to minimize or control the effects of adverse events (e.g., potential chemical exposures, personal injuries, fires/explosions, and spills/releases). The following subsections describe the basic emergency responses required should an emergency take place during field investigation or remedial effort activities.

10.1 Emergency Phone Numbers

Emergency telephone numbers are listed in **Table 10-1**.

Table 10-1
Emergency Telephone Numbers and Agencies

Agency	Telephone Number
Security (Sparrows Point facility)	(410) 388-7761
Ambulance	911
Fire	911
Occupational Health Clinic	(410) 633-3600
Hospital	(410) 550-0100 (general)
	(410) 550-0350 (emergency)
National Response Center	(800) 424-8802
Poison Control Center - Maryland	(800) 222-1222
EAG Main Contact	
VP Remediation, Russ Becker	(314) 686-5611
Project Manager, James Calenda	(314) 620-3056

10.2 Injury/Illness Treatment

In the event of illness or injury, the following steps will be taken:

- Evaluate the extent of injuries or seriousness of illness.
- When employees require urgent medical attention, call for emergency assistance. First aid should be administered while awaiting an ambulance or paramedics. All emergency medical treatment, other than first aid, will be administered by the local paramedics. Table 10-1 lists site emergency telephone numbers. In all cases, critical injuries must be immediately referred for professional medical attention.
- For a non-critical injury/illness, first aid will be administered by onsite personnel. Anyone
 sustaining a non-critical injury/illness who continues to work will be monitored by the Field
 Team Lead for any signs of worsening condition, if it is deemed that the person can return to
 work by the Team Lead and Project Manager. Injured personnel who later suffer any worsening
 change in status are to immediately notify the Team Lead or the Project Manager.

10.3 Occupational Health Clinic and Hospital Information

Occupational Health Clinic

The Concentra Medical Center, located at 1833 Portal Street, Baltimore, MD, is the closest occupational health clinic, just over 6 miles away. A map to the clinic in included as **Figure 10-1**. The clinic should be used for non-emergency injuries and illnesses.

Directions:

From Sparrow's Point Road, turn left onto Wharf Road; Turn left onto MD-158 W/Bethlehem Blvd. (0.4 mile); Turn right onto MD-157 N/Peninsula Expy. (2.7 miles); Turn slight left onto Merritt Ave. (0.1 mile); Merritt Ave. becomes Sollers Point Rd. (0.3 mile); Turn left to stay on Sollers Point Rd (0.6 mile); Turn left onto Williams Ave. (0.2 mile); Turn right onto Dundalk Ave. (<0.1 miles); Turn left onto Chandlery St. (0.1 mile); Turn left onto Portal St.

Cedar Beach **North Point Village** Broening Hwy Back River Rocky **Evergreen Park** Point Golf Dundalk Course Patapsco Dundalk River Marine (157) Edgemere Terminal Bear Sparrows Point North Industrial Point Curtis 695 Complex State Bay Park Old Road Bay © 2007 MapQuest, Inc. ©2007 NAVTEQ

Figure 10-1: Health Clinic (Non-Emergency) Map

Hospital

The Johns Hopkins Bayview Hospital is the closest emergency facility, just over 9 miles away. The hospital is located at 4940 Eastern Avenue in Baltimore, MD. **Figure 10-2** is a map to this hospital. Maps are also included in **Attachment E**.

Directions:

From the Sparrows Point Industrial Complex, go north on Route 151 for approximately one mile. Take ramp (right) onto I-695 towards I-695/Essex.

At exit 40, take ramp (right) onto Route 151/North Point Boulevard North/MD 150;

Take ramp (right) onto Route 150 (Eastern Avenue).

Continue on Eastern Avenue to hospital on right.

Montebello Belmar Overlea MapPoint 25 Hampden Bowleys 147 Quarters MAR D Rossville 542 45 Gardenville Middle River Waverly 150 Rosedale illage Sinclair Ln 40 129 BALTIMORE E Federal St **Bolton Hill** Essex Mount BALTIMORE CITY Orangeville End Vernon 151 Baltimore Eastern Ave 150 Little Italy 20 **Odonell Heights** Canton South Fells Wise Ave Essex Baltimore Point Skypark Colgate Port Mount 151 Covington Winans Dundalk Cherry Hill 295 157 Start Baltimore Fairfield 648 Highlands Brooklyn Sparrows Brooklyn Manor Wagners Point Chesapeake Point Industrial Pumphrey Curtis Bay **North Point** Complex State Park Arundel Cove ANNE ARUNDEL Curtis 2 (10) Bay Gsa Depot Ferndale ©2003 Microsoft Corp ©2003 NavTech, and Jor GDT, Inc. (173)

Figure 10-2: Hospital Map

Prior to the start of field activities, the Project Field Team Leader will call to verify the telephone numbers and directions for the clinic and hospital, and then distribute location maps and the emergency telephone list to workers and vehicles.

10.4 Accident and Emergency Medical Response

All field team members will be aware of the location of a first aid kit kept onsite. All vehicles used to transport injured persons to an offsite medical facility will be provided with directions and a map to the medical facility.

If treatment beyond first aid is required, emergency response personnel will be contacted for assistance and transport. Before beginning site activities, the Project Field Team Leader will ensure that each field team member knows where the nearest emergency medical facilities are and how to get there. The closest hospital will be used in cases of life-threatening emergencies at the direction of the Project Field Team Leader. The telephone numbers of the local emergency services will be available in the SZ, and the Project Field Team Leader will brief the field team on the procedures for calling for help in an emergency.

Site personnel will inform the Project Manager of any medications, allergies, or other medical information that may be applicable for their medical treatment. The Project Manager will supply this information to emergency response personnel, and will accompany the victim to the hospital, if possible.

10.4.1 Chemical Exposure

In case of accidental overexposure to a hazardous material (groundwater, soil, and/or off-gas materials), guidelines shown in **Table 10-2** will be used.

Table 10-2
Chemical Exposure Guidelines

Type of Overexposure	First Aid Guidelines
Skin Contact	Skin: Wash/rinse the affected area thoroughly with copious amounts of soap and water.
	Eyes: Eyes should be rinsed for at least 15 minutes following chemical contamination.
	Contact emergency response personnel if required, or transport victim to the hospital.
Inhalation	Move the victim to fresh air.
	Contact emergency response personnel if required, or transport victim to the hospital.
Ingestion	Contact Poison Control Center.
	Contact emergency response personnel, or transport victim to the hospital.

10.4.2 Decontamination During a Medical Emergency

For minor medical problems or injuries, regular decontamination procedures will be followed. If emergency, life-saving first aid and/or medical treatment are required, regular decontamination procedures may need to be abbreviated or omitted:

- Do not attempt to wash or rinse an unresponsive victim unless the victim has been contaminated with an extremely toxic or corrosive chemical that may cause injury or loss of life to emergency response personnel.
- Outer garments can be removed if it does not cause a delay, interfere with treatment, or aggravate the problem.

- PPE can be cut away and respiratory protective equipment must always be removed.
- If contaminated clothing cannot be safely removed, then the victim should be wrapped in a blanket or plastic sheeting to prevent contamination to the inside of the ambulance and/or emergency response personnel.

The Project Manager or Field Team Lead will advise the medical staff as to the type of contamination possibly involved.

10.4.3 Small or Incipient Fire

A small fire is defined as a fire that can be extinguished with an available 20 pound type ABC fire extinguisher. An incipient fire is a fire that is small because it has just started. In the event of a small or incipient fire, the following minimum actions will be taken:

- Evacuate nearby personnel from the area, if possible, to an upwind location or to an area not affected by smoke or hazardous decomposition products if an upwind location is not feasible.
- Attempt to extinguish fire using portable fire extinguisher or by smothering.
- Contact emergency response personnel, as needed, for any injuries or exposures to hazardous decomposition products, or if fire cannot be put out.
- After the fire has been extinguished, or emergency response personnel have been contacted, notify the following project personnel:

The Project Manager

10.4.4 Large Fire or Explosion

An explosion, large fire or a small fire which cannot be extinguished is beyond the first line capabilities of EAG personnel. Professional emergency response personnel would be needed to provide emergency assistance for these types of incidents. In the event of a large fire, explosion or a small fire that cannot be extinguished, the following minimum actions will be taken:

- Evacuate all personnel from the site, if possible, to an upwind location, or to an area not affected by smoke or hazardous decomposition products if an upwind location is not feasible
- Perform a quick role call to account for all site personnel
- Contact the fire department
- Contact emergency response personnel, as needed, for any injuries or exposures to hazardous decomposition products
- After emergency response personnel have been contacted, notify the following project personnel:

The Project Manager

10.4.5 Adverse Weather Conditions

In the event of adverse weather conditions, the Project Manager will determine if work can continue without sacrificing the health and safety of site personnel. Threatening weather conditions will be monitored by the Project Manager and possibly the Team Lead via radio, television, internet, and/ or calls to the National Weather Service. Some of the conditions to be considered include:

- Potential for heat or cold stress
- Limited visibility

- Electrical storms
- Treacherous weather-related working conditions (i.e., heavy rainfall, icy conditions causing slippery footing hazards, etc.).

10.4.6 First Aid for Heat Stress/Cold Stress

First aid treatment for <u>heat cramps</u> includes shade, rest and fluid replacement. If available, the individual should drink electrolyte replacement fluids (e.g., Gatorade, Squincher or 10-K). The individual should recover within half an hour.

First aid treatment for <u>heat exhaustion</u> includes cooling the victim, elevating the feet and fluid replacement. If the individual has not recovered within half an hour, then transport the victim to the hospital for medical attention.

<u>Heat stroke</u> is a medical emergency, requiring the immediate cooling of the victim and transport to the hospital for medical treatment immediately.

First aid treatment for <u>frost nip</u> and <u>frostbite</u> includes covering the affected area with warmth and retreating to a warm area. If the individual has not recovered within half an hour, then transport the victim to the hospital for medical attention.

<u>Frozen tissue</u> is a medical emergency and the victim must receive medical attention immediately. Contact emergency response personnel immediately or transport the victim to the hospital.

First aid treatment of <u>mild hypothermia</u> includes using heat to raise the individual's body temperature. Heat may be applied to the victim in the form of heat packs, hot water bottles and blankets. If the individual has not recovered within half an hour, then transport the victim to the hospital for medical attention.

<u>Severe hypothermia</u> is a medical emergency and the victim must be transported to the hospital immediately. First aid treatment for severe hypothermia includes handling the victim very gently; rough handling may set off of an irregular heartbeat. **DO NOT** attempt to re-warm the severely hypothermic victim; re-warming may cause the development of an irregular heartbeat.

10.4.7 Snake Bites

If bitten, lower the extremity below the heart to reduce the poison's dissemination through the body. Remain calm, try to keep the heart rate reduced and seek medical attention immediately. Do not cut the wound or attempt to suck out the venom. Note any physical features (e.g., shape of head and color or pattern on body) of the snake.

10.4.8 Animal Bites

All bites should be treated as contaminated soft tissue injuries. Bites should be washed immediately with large amounts of soap and water. If soap is not available, flush the wound with water. The severity and onset of any infection is dependent upon the number of organisms (viruses or bacteria) introduced into the wound. Washing saliva out of the wound immediately will reduce the number of bacteria or viruses that can enter the tissue. Medical attention must be sought if rabies is suspected or the individual has not had a recent tetanus booster.

10.4.9 Insect Bites and Stings

Emergency care for insect bites and stings depends on the individual's reaction. To treat a sting that results in a minor reaction, remove the stinger by gently scraping it off the skin. Do not try to grasp the sac or stinger, because this forces the remaining venom into the skin. Once the stinger has been removed, clean the wound and surrounding area. Apply cold packs to slow the absorption of the venom and reduce pain and swelling. The treatment for a severe reaction to insect stings includes the following:

- Confirm with the victim whether they are highly allergic to the insect that stung them
 - o If victim has gone into anaphylactic shock, retrieve their epi pen or other auto-injector and administer per the directions as hastily as possible
- Assuming the victim remains conscious, ask them to refrain from moving around, and to lie down
- Immobilize the injured area immediately
- If an extremity is involved, remove any rings or watch
- Keep the affected part low, below the level of the heart
- Apply cold compresses to the affected area
- If possible, try to identify the type of insect that inflicted the sting
- Transport the victim to a medical facility immediately, continuing supportive measures en route.

All employees and subcontractors must report severe reactions to insect stings prior to the beginning of work to both the Project Manager and Field Team Lead.

10.4.10 Poisonous Plants

Decontamination: Wash the skin immediately after contact with the plant. Proper washing may not be practical in the middle of the woods, but a product such as Technu or a small wash-up kit with prepackaged, alcohol-based cleansing tissues can be effective. Employees and subcontractors should not forget to wash contaminated clothing and clean up contaminated equipment prior to re-use.

Treatment: Options are as follows:

- Home treatment: Calamine lotion and an oatmeal bath (one cup to a tub full of water) can help relieve itching. To prevent secondary skin infection, scratching is not helpful and the fingernails should be cut to avoid damage to the skin. Over-the-counter hydrocortisone cream can decrease inflammation and itching; however, the label should be read and the cream used according to directions.
- When to see the doctor: Severe cases may require further treatment. A physician should be seen if the rash appears infected, is on the face or other sensitive body areas, or is too extensive to be easily treated at home.

10.4.11 Ticks

To remove an attached tick:

- Use fine-tipped tweezers or a "tick tool" to grasp the tick at the surface of the skin
- If tweezers are not available, use a tissue to protect the fingers (exposure to the tick's body fluid may lead to transmission of disease)
- With a steady motion, pull the tick straight out

Disinfect the bite site and the tweezers. Wash your hands thoroughly with soap and water. Save the tick if you can by placing it in a Ziploc bag in the freezer; this may help with diagnosis in the future.

If flu-like symptoms such as fatigue, headache, neck-stiffness or jaw discomfort begin following a tick bite, seek medical attention.

APPENDICES



Environmental Engineers

ATTACHMENT A COMPLIANCE AGREEMENT

EAG HEALTH AND SAFETY PLAN

ACKNOWLEDGEMENT FORM

l,, have read (or	had read to me), EAG's health and safety plan.
(Print Name)	
I understand my responsibilities as they are defined in t	this plan and will abide by these rules and
procedures, as well as any regulations or otherwise gov	verning safety. When in doubt concerning safe
job performance, I will speak to my immediate supervis	sor and/or Project Manager.
I understand EAG reserves the right to change or amen	d the HASP at any time.
I understand any violation to the plan policies or proced and including termination.	dures will be cause for disciplinary action up to
Employee Signature	 Date
Employee Signature	Date
EAG Supervisor/Project Manager Signature	Date

ATTACHMENT B

Material Safety Data Sheets (MSDSs)