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Project Manager

November 7, 2007

Mr. Marcos Aquino (3HS32)
Work Assignment Manager
U.S. Environmental Protection Agency Region 3
1650 Arch Street
Philadelphia, Pennsylvania 19103

Subject: Trip Report for the Metro Container Site
EPA Contract No. EP-S3-05-02
Technical Direction Document No. E23-014-07-07-011
Document Tracking No. 0398

Dear Mr. Aquino:

Tetra Tech EM Inc. (Tetra Tech) is submitting the final trip report for the Metro Container site that summarizes removal site evaluation activities conducted from March 5 to August 31, 2007. Tetra Tech addressed the comments you sent through an electronic mail dated October 29, 2007.

If you have any questions regarding this report, please call me at [REDACTED]

Sincerely,

[REDACTED]

[REDACTED] P.E.

Project Manager

Enclosure

cc: TDD File

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AR103222

**TRIP REPORT
FOR THE
METRO CONTAINER SITE
TRAINER, DELAWARE COUNTY, PENNSYLVANIA**

Prepared for

U.S. Environmental Protection Agency Region 3
1650 Arch Street
Philadelphia, Pennsylvania 19103

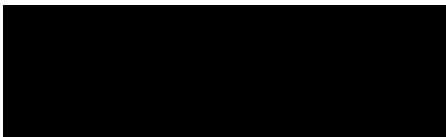
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EPA Contract No. EP-S3-05-02

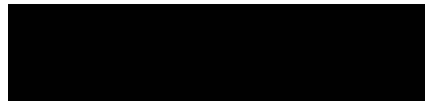
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November 7, 2007

Prepared by



Project Manager

Approved by



START Point of Contact

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1.0 INTRODUCTION

Under Eastern Area Superfund Technical Assessment and Response Team (START) Contract No. EP-S3-05-02, Technical Direction Document (TDD) No. E23-014-07-07-011, U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech EM Inc. (Tetra Tech) to conduct a removal site evaluation at the Metro Container site located in Trainer, Delaware County, Pennsylvania. The purpose of the evaluation is to determine whether substances at the site pose an immediate threat to human health and welfare or the environment. Surface soil, subsurface soil, groundwater, soil gas, surface water, and sediment samples were collected to achieve this goal. Tetra Tech collected field samples from March 6 to March 14, 2007 for this removal site evaluation. Additional activities conducted on site as part of this investigation, including removal and abandonment of temporary wells; and disposal of investigation-derived waste (IDW), were conducted on April 12, 2007 and September 4, 2007, respectively. This trip report summarizes sampling activities that were conducted under TDD Nos. E13-008-06-07-008 and E23-014-07-07-011.

This trip report provides site background in Section 2.0, describes site activities in Section 3.0, summarizes analytical results in Section 4.0, discusses IDW management in Section 5.0, and summarizes the site evaluation in Section 6.0. All references cited in this report are listed after the text.

2.0 BACKGROUND

This section describes the site location, presents a description of the site, and summarizes previous site activities and investigations.

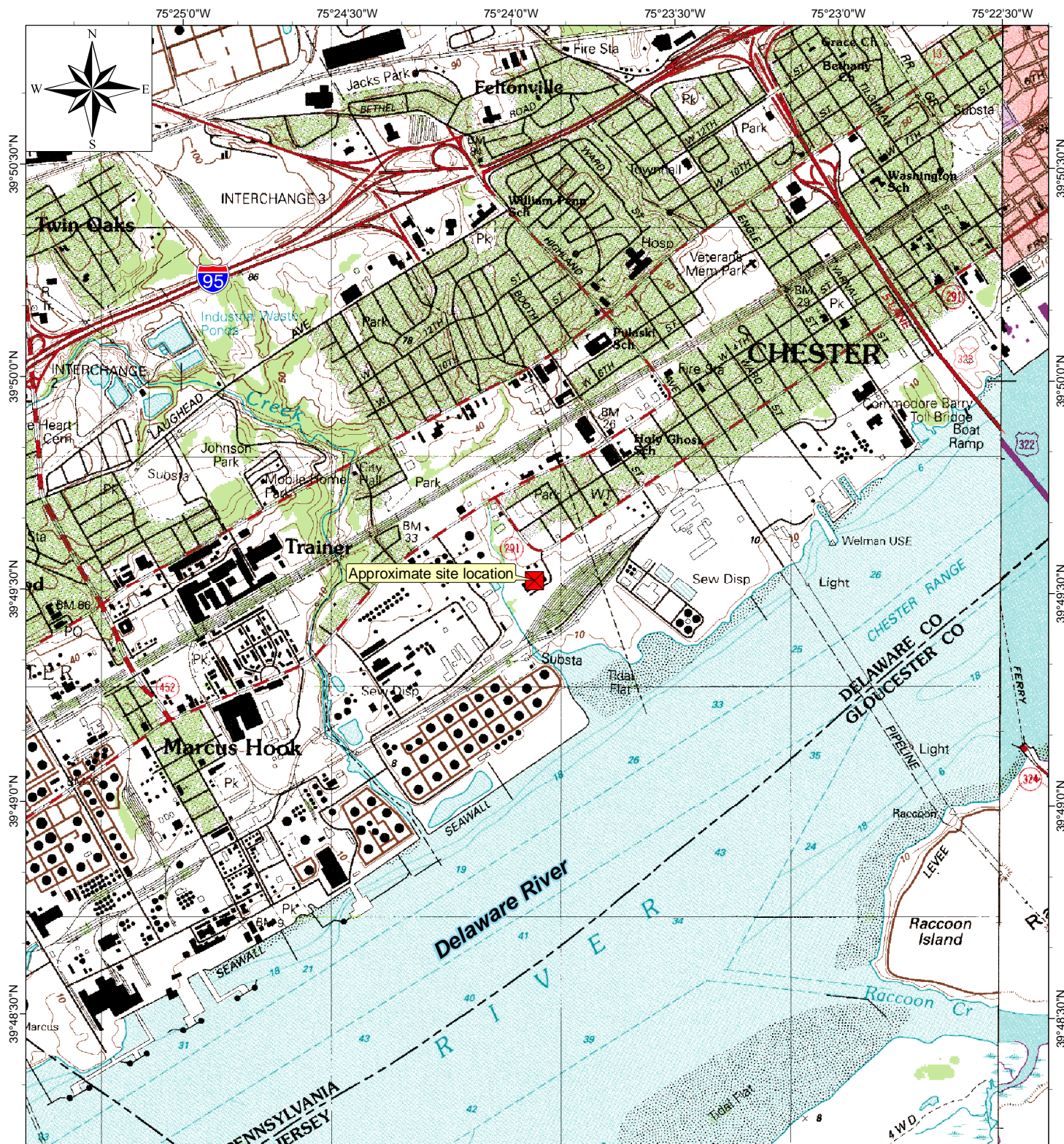
2.1 SITE LOCATION

The Metro Container site is located in Trainer, Delaware County, Pennsylvania with the approximate geographic coordinates of the center of the site being 39.82642 degrees north latitude and 75.39903 degrees west longitude (U.S. Geological Survey [USGS] 1967 and 1993). The site is located south of the intersection of West Second Street and Price Street, in a heavily industrialized area of southeastern Pennsylvania. The site is located approximately 0.17 mile

upstream and north of the confluence of Stony Creek, a small tributary, and the Delaware River. The site is surrounded by industrial facilities, including a scrap metal yard, railroad yard, and water treatment plant to the east, and the ConocoPhillips, Inc. (ConocoPhillips) refinery to the south and west. The ConocoPhillips refinery has a large outfall for non-contact cooling water located adjacent to the site, which continuously releases a high volume of water to Stony Creek. A mixed commercial and residential area is located north of the site, directly across West Second Street. Figure 1 shows the site location and surrounding areas (USGS 1967 and 1993). Both the railroad yard and a portion of ConocoPhillips property are located between the Delaware River and the site.

2.2 SITE DESCRIPTION

The site is a graded, industrial property of approximately 10.41 acres. The site is improved with a large manufacturing building (approximately 40,000 square feet [ft²] footprint) and an office building (approximately 6,000 ft² footprint). Price Street intersects the property from West 2nd Street to the eastern edge of the property at a railroad yard. Figure 2 provides the site layout map for the area. By agreement with the current property owner, a majority of the site was recently graded by neighboring property owner, ConocoPhillips, and was used in 2006 for overflow parking. This parking area is covered with gravel and wooden telephone poles have been staged in horizontal rows on the gravel surface for parking lot control. The northwest portion of the site is characterized by trees and shrubs and ground cover vegetation. The northeast portion of the site, to the northeast of Price Street, is dirt-covered and is used for staging of various pipes and storage vessels. Areas of the site, including Price Street and a road between the two structures, are asphalt covered. An area south of the gravel-covered parking lot is elevated, recently graded, and the former location of a concrete holding tank. The southern and western portion of the property is bordered by Stony Creek, a tributary to the Delaware River. ConocoPhillips refinery operates the Stony Creek Guard Basin along the southern boundary of Stony Creek, which continuously discharges non-contact cooling water into Stony Creek. This non-contact cooling water is reported to have a slightly elevated temperature, but the same water quality as that of the

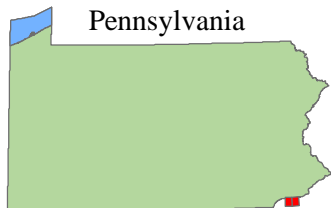


Source: Modified from USGS 7.5-Minute Series Topographic Quadrangles, Bridgeport, New Jersey-Pennsylvania, 1967, Revised 1994
 Marcus Hook, Pennsylvania-New Jersey-Delaware, 1993

0 0.25 0.5
 Miles

Quadrangle Location = ■

Pennsylvania



Metro Container Site
 Trainer, Delaware County, Pennsylvania

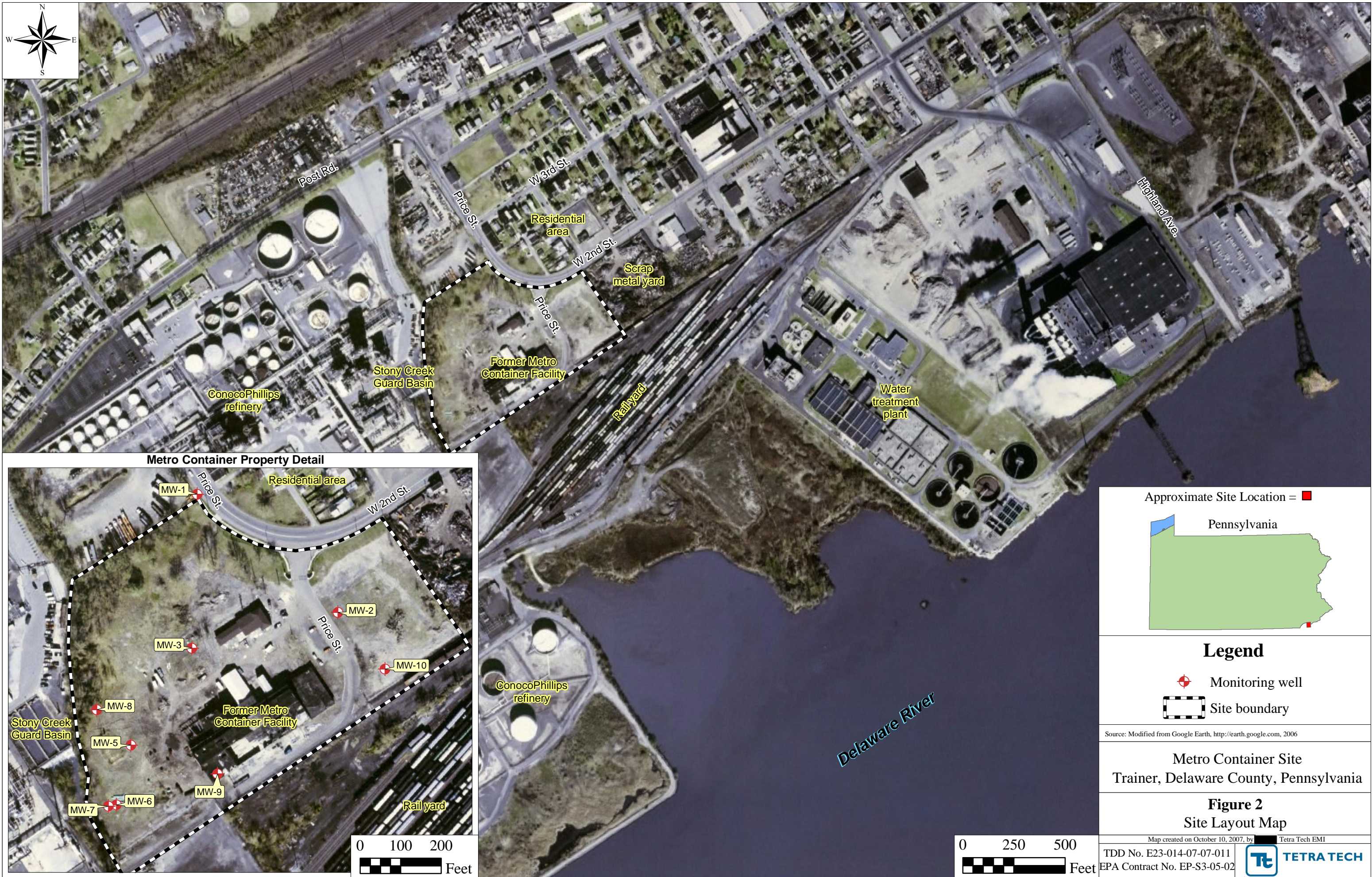
Figure 1
 Site Location Map

TDD No. E23-014-07-07-011
 EPA Contract No. EP-S3-05-02

Map created on October 10, 2007
 by Tetra Tech EMI



TETRA TECH



Delaware River, from where it was originally pumped onto the refinery property (MWH Americas, Inc. [MWH] 2005).

2.3 PREVIOUS INVESTIGATIONS

The site has a long history of industrial use, primarily in the production of chemicals followed by the recycling and reclamation of drums and containers. At the close of the 19th century, the site was occupied by the Delaware Oil Works (MWH 2005). From 1913 to approximately 1920, the site was occupied by the Manufacturers Paraffine Company, which included storage tanks, refinery stills, an agitator house, condensers, storage facilities, and a packing shed and barreling house for the production of finished wax products (MWH 2005).

From 1920 to 1959, Stauffer Chemical Company, Inc. (Stauffer) occupied the plant. Stauffer was a manufacturer of carbon disulfide at this facility and the three primary buildings still standing on site were constructed by Stauffer, including the office building and connected “locker room,” and the main reclaiming building, referred to by Stauffer as the “oven building” (MWH 2005). The disposal lagoon, which has now been filled, was constructed between 1953 and 1959, during the late stages of Stauffer property ownership (MWH 2005).

From 1963 to 1969, Joseph A. Reis Company purchased the property and used it for steel drum recycling (MWH 2005). Sanborn maps list the location of the former Stauffer lagoon as a pond and aerial photographs from 1965 and 1970 indicate the “pond” was filled with a black liquid (MWH 2005). Figure 2 provides a site layout that shows the current condition of the site and the surrounding properties (USGS 1967 and 1993). Sometime prior to 1969, Universal Container Corporation took ownership of the property, and appeared to have continued the drum recycling operation (MWH 2005).

In 1983, the property was conveyed to the First Union Commercial Corporation, then to Metro Container Corporation (MWH 2005), with drum recycling and reclamation operations continuing through these property ownership transitions (MWH 2005). It is estimated that Metro Container received 450,000 drums a year for recycling and reclamation, with the waste streams from the process terminating at three locations: (1) the treated wastewater was sent to the Delaware County Regional Water Quality Control Authority (Delcora), (2) the treated sludge was shipped

to Sumptor Landfill in Sumptor, Michigan, and (3) other wastes were buried on site (MWH 2005).

A site characterization report produced on November 11, 2005 by MWH provides a detailed history of the environmental regulatory violations committed by the various facility owners and assessments conducted at the site by various parties, including the Pennsylvania Department of Health, Delaware River Basin Commission, Pennsylvania Department of Environmental Resources (PADER), Delcora, EPA, U.S. Coast Guard, and the U.S. Attorney for Eastern District (MWH 2005).

Although many notices of violation (NOV) were issued prior to 1986, PADER and EPA took a much greater interest in the site after 1986 (MWH 2005). Between 1986 and 1989, at least 23 documented NOVs and site inspections occurred (MWH 2005). EPA's website provides a summary of their actions taken regarding the site, which includes over 40 Issue Request Letters (104e) dated from December 1985 through February of 1989, a preliminary assessment completed in September 1986, two removal assessments (September 1988 and July 1994), two removal actions (June 1989 and November 1991) to address surface contamination concerns, and an Administrative Order of Consent issued on September 21, 1999.

In July 1991, owners and operators of the Metro Container Corporation plead guilty in Federal Court in Philadelphia to toxic waste dumping charges during Metro Container's ownership of the facility (MWH 2005). Sometime in 1994 to 1995, a fire destroyed the roof of the main office building at the abandoned site. In 1999, Pennoni Associates, Inc. conducted a site investigation, which included subsurface sampling and analysis (MWH 2005). In 2005, MWH conducted a comprehensive site characterization for ConocoPhillips. Much of the information presented in this section was obtained from the MWH report dated November 11, 2005.

3.0 SITE ACTIVITIES

The removal site evaluation activities summarized in this report were conducted from March 5 to September 4, 2007. Tetra Tech personnel mobilized to the area on Monday, March 5, 2007 to

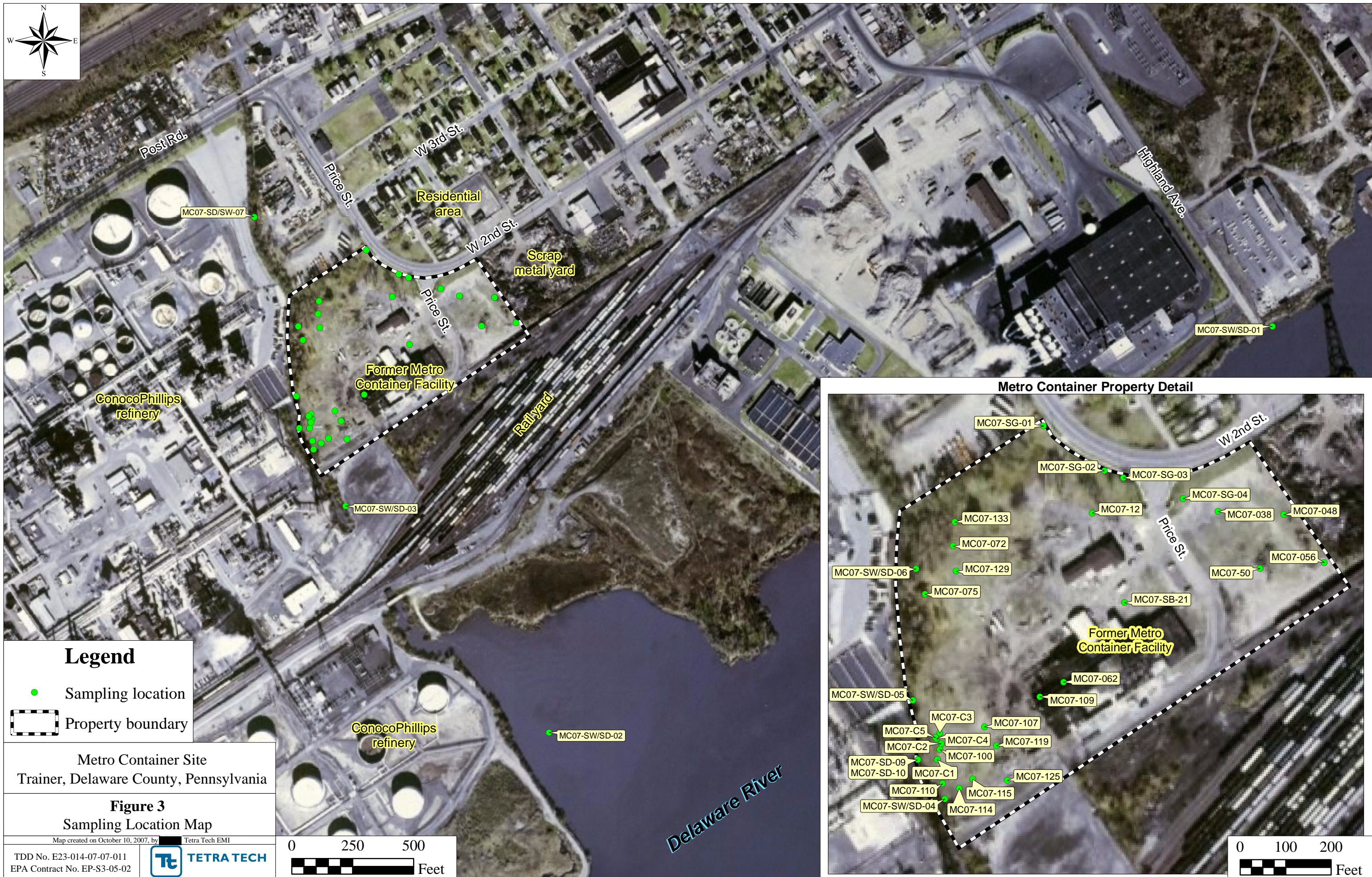
initiate removal site evaluation activities, at which time Tetra Tech met with EPA Work Assignment Manager (WAM) Marcos Aquino and a representative from the local utility company to ensure all on-site utilities were marked prior to initiating subsurface investigation activities. At this time, Tetra Tech personnel marked all sampling locations using a Trimble Pro XR geographic positioning system (GPS); sample locations were pre-determined and were based on a subset of locations previously sampled by MWH. Actual sampling activities were initiated on Tuesday, March 6, 2007, (at which time Tetra Tech personnel met with Geoprobe subcontractor Vironex), and were continued till March 14, 2007. For sample locations, see Figure 3. Vironex, a subcontractor to Tetra Tech, assisted Tetra Tech to collect soil samples from depth and also groundwater samples from the site. A photographic documentation log is provided in Appendix A and the boring logs are provided in Appendix B.


All sampling activities were conducted in accordance with the sampling and analysis plan (SAP) prepared by Tetra Tech for this sampling event (Tetra Tech 2007). Appendix A includes a photographic log that documents site activities. The following sections summarize sample collection and handling procedures. Figure 3 shows the sampling locations.

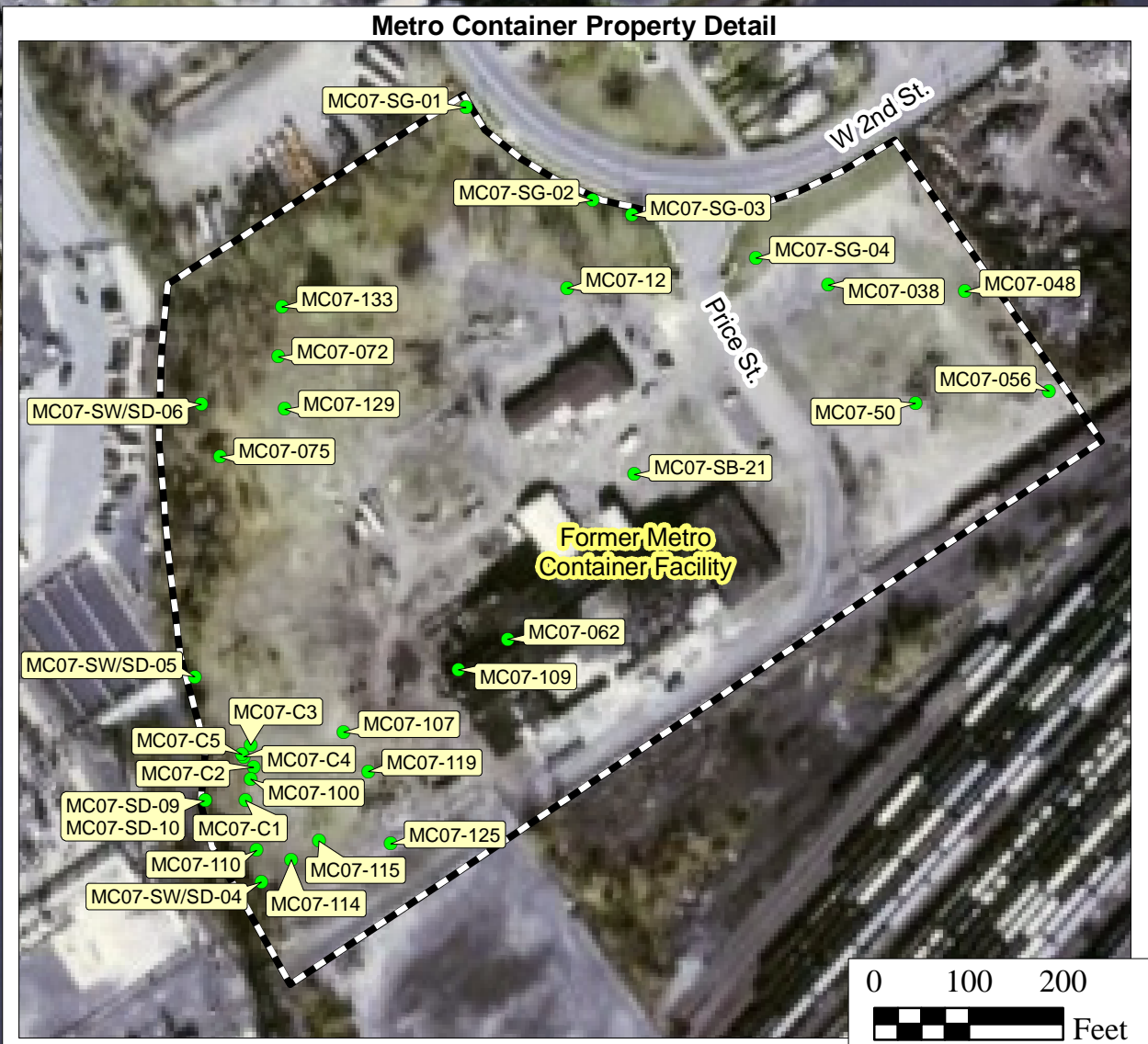
3.1 SAMPLE COLLECTION

From March 6 through 14, Tetra Tech personnel collected a total of 91 samples from the site. Sampling included the collection of the following samples:

- 25 surface soil samples
- 24 subsurface soil samples (including 2 quality assurance/quality control [QA/QC] samples)
- 19 groundwater samples (including 4 QA/QC samples)
- 4 soil gas samples



Map created on October 10, 2007, by [REDACTED]		Tetra Tech EMI
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- 9 surface water samples (including 2 QA/QC samples)
- 10 sediment samples (including 1 QA/QC sample)

Table C1 in Appendix C provides a summary of sample location, identifier, matrix, sample date, sample time, and depth of sampling.

The following sections describe the surface soil, subsurface soil, groundwater, soil gas, surface water and sediment, sampling activities and sample handling procedures.

3.1.1 Surface Soil Sampling

Tetra Tech collected 25 surface soil samples between March 6 to 13, 2007 from the site. The surface soil sampling locations were identified during the site reconnaissance and by reviewing assessment activities previously conducted by MWH at the site. All surface soil samples were grab samples collected from 0 to 12 inches below ground surface (bgs). Tetra Tech collected the surface soil samples for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and target analyte list (TAL) metals including cyanide analyses. At each of the sampling locations, Tetra Tech first collected surface soil directly into three 5-gram Encore samplers and one 2-ounce clear wide-mouth (CWM) glass jar for analysis of VOCs and associated moisture content, then collected approximately 24 ounces of soil and homogenized the soil in a dedicated aluminum pan. Following soil homogenization for each sample, soil was placed into three certified-clean, labeled, 8-ounce CWM glass jars for SVOC and metals analyses. Dedicated plastic scoops and nitrile gloves were used for sampling and to transfer homogenized soil to jars. All sampling equipment was dedicated, eliminating the potential for cross-contamination or the need for rinsate sample analysis. Soil samples were collected in accordance with Tetra Tech Standard Operating Procedure (SOP) No. 005, "Soil Sampling" (Tetra Tech 1999b). Tetra Tech collected a total of 25 surface soil samples, as shown in Table C1 in Appendix C.

3.1.2 Subsurface Soil Sampling

Twenty-four subsurface soil samples (including 2 QA/QC samples) were collected from 22 borings advanced to a maximum of 17.5 feet with a Geoprobe equipped with a macrocore

sampling device. All subsurface soil samples were collected from March 6 to 13, 2007, from the site.

Tetra Tech collected the subsurface soil samples for Target Compound List (TCL) VOCs, SVOCs, and TAL metals analyses. The Geoprobe operator provided Tetra Tech with continuous flights of soil cores until either refusal or groundwater was encountered, or at the direction of Tetra Tech. Tetra Tech then logged the lithology of the soil, and screened each of the soil cores using a TVA 1000 combination flame ionization detector (FID)/photoionization detector (PID) to evaluate the presence of VOCs. Copies of the 24 boring logs are provided in Appendix B. The FID readings ranged from 0 to 230 parts per million (ppm), while the PID readings were nondetect. The elevated FID readings are likely attributable to naturally occurring methane resulting from the breakdown of organic material that was observed in the cores.

Sample locations were selected from discrete intervals based on field observations, elevated PID/FID readings, or at the request of the EPA WAM. At each of the sampling locations, Tetra Tech first collected subsurface soil directly into three 5-gram Encore samplers and one 2-ounce CWM glass jar for analysis of VOCs and associated moisture content, then collected approximately 24 ounces of soil and homogenized the soil in a dedicated aluminum pan. Following soil homogenization for each sample, soil was placed into three certified-clean, labeled, 8-ounce CWM glass jars for SVOC and metals analyses. Dedicated plastic scoops and nitrile gloves were used for sampling and to transfer homogenized soil to jars. All sampling equipment was dedicated, eliminating the potential for cross-contamination or the need for rinsate sample analysis. The subsurface soil samples were collected in accordance with Tetra Tech SOP No. 054, "Using the Geoprobe System," using disposable acetate sleeves and disposable sampling equipment to minimize cross-contamination (Tetra Tech 1999c). Tetra Tech collected a total of 24 subsurface soil samples, as shown in Table C1 in Appendix C.

3.1.3 Groundwater Sampling

Tetra Tech collected 19 groundwater samples (including 4 QA/QC samples) from the same locations where depth soil samples were collected (using a Geoprobe), except location MC07-110 where no depth soil sample but a surface soil sample was collected. All groundwater samples were collected between March 9 to 14, 2007.

The direct-push drilling efforts were conducted in accordance with Tetra Tech SOP 054, “Using the Geoprobe System” (Tetra Tech 1999c). Temporary monitoring wells were constructed in the boreholes in accordance with EPA’s “Groundwater Sampling and Monitoring with Direct Push Technologies” (EPA 2005). Each well was installed using Schedule 40 polyvinyl chloride with a slotted well screen. Each well was then developed with a peristaltic pump until the water was clear. VOC samples were collected by using a bladder pump where as the rest of the samples were collected by using a peristaltic pump. All wells were of temporary nature, and once the sampling was completed, all wells were removed from the site.

After the well purge water was clear, the samples were collected directly from the bladder pump hose into three 40-milliliter VOC vials pre-preserved with hydrochloric acid for TCL VOC analysis, two 1-liter amber glass jars for TCL SVOC analysis, and one 1-liter polyethylene bottle preserved with nitric acid for TAL metals analysis.

3.1.4 Surface Water and Sediment Sampling

Tetra Tech collected 9 surface water samples (including 2 QA/QC samples) and 10 sediment samples (including 1 QA/QC sample) on March 6 and 7, 2007 from a tributary (Stoney Creek) to Delaware River, located next to the site. Stoney Creek is located in between the site and the ConocoPhillips refinery. Figure 3 shows the surface water and sediment sampling locations. Samples were collected at the most downstream location first, and samplers worked their way upstream.

Surface water samples were collected prior to sediment samples. Each surface water sample was collected by immersing the sample container directly into the water, and allowing the jars to slowly fill. Samples were collected directly into three 40-milliliter VOC vials pre-preserved with hydrochloric acid for TCL VOC analysis, two 1-liter amber glass jars for TCL SVOC analysis, and one 1-liter polyethylene bottle preserved with nitric acid for TAL metals analysis.

Sediment samples were collected from depositional areas and were taken from the upper 6 inches of sediment. At each of the sampling locations, Tetra Tech first collected sediment directly into one 4-ounce CWM glass jar with a septum for analysis of VOCs, then collected approximately 24 ounces of sediment and homogenized the soil in a dedicated aluminum pan.

Following sediment homogenization for each sample, sediment was placed into three certified-clean, labeled, 8-ounce CWM glass jars for SVOC and metals analyses. Dedicated plastic scoops and nitrile gloves were used for sampling and to transfer homogenized sediment to jars.

3.1.5 Soil Gas Sampling

On March 7, 2007, Tetra Tech collected 4 soil gas samples from the site. Tetra Tech used Geoprobe's manual soil vapor collection system to collect soil gas from the site. Hollow rods containing an expendable drive point to the desired sampling depth were introduced and then retracted approximately 12 inches to create an open space in the annulus. After rod advancement, dedicated, certified-clean Teflon-lined tubing was attached to a male reverse-threaded fitting, and the tubing and fitting was lowered through the hollow rods and threaded into a female reverse-threaded fitting. A dedicated O-ring on the male fitting prevented ambient air in the inside of the hollow rods from entering the open annular space through threads on the fitting. In the event of loose soil at the ground surface (around the rod), modeling clay was used between the rods and the ground surface to prevent ambient air from entering the open annular space from the outside of the hollow rods.

Each soil gas sample was then collected directly into a 6-liter SUMMA® canister in accordance with Tetra Tech SOP No. 074, "Soil Gas Sampling Methods" (Tetra Tech 1999a), except that each sample was collected by adjusting the regulator to collect at an approximate rate of 0.6 liter per minute, or over a period of approximately 10 minutes. Field parameters, such as sample identifier, summa canister serial number, sampling location, sampling date, sampling start and stop time, and sampling depth were recorded on the field data sheet. Tetra Tech collected a total of 4 soil gas samples, as shown in Table C1, Sampling Summary, in Appendix C.

3.2 SAMPLE HANDLING PROCEDURES

Samples were handled and packaged in accordance with the Tetra Tech SOP No. 019, "Packaging and Shipping Samples" (Tetra Tech 2000) and with Tetra Tech Quality Assurance Project Plan (QAPP) for START (Tetra Tech 2006).

Tetra Tech personnel collected a total of 25 surface soil samples, 24 subsurface soil samples (including 2 QA/QC samples), 19 groundwater samples (including 4 QA/QC samples), 4 soil gas

samples, 9 surface water samples (including 2 QA/QC samples), and 10 sediment samples (including 1 QA/QC sample) from the site between March 6 to 14, 2007. Samples analyzed for TAL metals and cyanide were shipped to Bonner Analytical at Hattlesburg, Mississippi. For TCL VOC and SVOC analysis, the samples were shipped to Liberty Analytical Corporation of Cary, North Carolina; for polychlorinated biphenyl (PCB) congener analysis, the samples were shipped to SGS Environmental Services, Wilmington, North Carolina; and for soil gas analysis, the samples were shipped to U.S. EPA Laboratory at Ft. Meade, Maryland.

All shipping containers were properly labeled with EPA custody seals and delivered with signed chains of custody and hidden hazard warnings for laboratory personnel. Samples were preserved with appropriate preservatives and all samples were kept on ice during shipment.

3.3 GLOBAL POSITIONING SYSTEM SURVEY

New sample locations were identified with a GPS unit where as the old sample locations were identified by MWH earlier.

4.0 ANALYTICAL RESULTS

Surface soil, subsurface soil, groundwater, surface water, and sediment samples collected on site were analyzed for TAL total metals, TCL VOCs, and TCL SVOCs. Soil gas samples collected on site were analyzed using EPA Method TO-15A for volatile organics.

All samples (except soil gas samples) collected from the site between March 6 through 13, 2007, were compared with EPA risk-based concentrations (RBC) published on April 4, 2007 (EPA 2007). Excluding soil gas samples, a total of 87 samples (soil, subsoil, sediment, groundwater, and surface water) were collected from the site. During the comparison and presentation of analytical data, the following parameters were considered.

- To reduce the volume of analytical data to be compared with EPA RBCs, all tables in Appendices D and E were presented with only analytical results, which exceeded the RBC values.
- Analytical results with data qualifier 'U' or 'R' were not presented in the table.
- The RBC table was adjusted for non-carcinogen analytes by dividing the EPA Region 3 RBC value by 10.

- There are no RBCs for groundwater or surface water. Groundwater and surface water RBCs were derived by multiplying tap water RBCs by 10.
- There is no RBC value for lead. The screening level for lead for the Metro Container site was assumed at 1,000 milligram per kilogram (mg/kg).
- Water samples were compared with manganese-food RBC, where as soil samples were compared with manganese-nonfood RBC.

4.1 SURFACE, SUBSURFACE SOIL, AND SEDIMENT SAMPLING RESULTS

This section describes surface soil, subsurface soil, and sediment sampling results. Analytical results for soil (surface and subsurface) and sediment samples are provided in Appendix D, which contains Table D1 (TAL metal results), Table D2 (TCL VOC results), Table D3 (TCL SVOC results), and Table D4 (TCL pesticide and PCB results).

4.1.1 Metal Results

Table D1 in Appendix D provides the soil and sediment results exceeding the industrial RBC values (soil) for TAL metals.

All surface soil samples were analyzed for TAL metals, including cyanide. Arsenic concentrations in 20 of 25 surface soil samples ranged from 2.3 to 23 mg/kg and were above RBC level for industrial soil of 1.9 mg/kg. There is no RBC value for lead for industrial soil; however, assuming the screening level of 1,000 mg/kg for lead for the Metro Container site, 5 of 25 surface soil samples have lead concentrations between 1,220 to 2,340 mg/kg. No other TCL metals, including cyanide, for surface soil exceeded the RBC industrial values.

All subsurface soil samples were also analyzed for TAL metals. Arsenic concentrations in 20 of 24 subsurface soil samples ranged from 2.4 to 87.8 mg/kg and were above RBC values for industrial soil of 1.9 mg/kg. Lead concentrations ranged from 1,240 to 4,370 mg/kg in 3 of 24 subsurface soil samples. The screening level for lead is 1,000 mg/kg. No other TCL metals in subsurface soil exceeded the RBC industrial values.

All sediment samples were also analyzed for TAL metals. Arsenic concentrations in all 10 sediment samples (including 1 duplicate sample) ranged from 2.1 to 8.9 mg/kg and were above

RBC values for sediment of 1.9 mg/kg. No other TCL metals for sediment exceeded the RBC industrial values for soil.

4.1.2 Volatile Organic Compound Results

Table D2 in Appendix D provides the soil and sediment results exceeding the industrial RBC values for VOC compounds.

VOC compounds cyclohexane and 4-methyl-2-pentanone were present in surface, subsurface, and sediment samples but the results could not be compared with any RBC, because there is no RBC for these two compounds for soil or sediment.

1,4-Dionane ranged from 45,000 to 540,00 micrograms per kilogram ($\mu\text{g/kg}$) in 4 of 24 subsurface soil samples where the RBC is 26,0145 $\mu\text{g/kg}$. Vinyl chloride was detected (4,100 $\mu\text{g/kg}$) in 1 of 24 subsurface soil samples, which exceeded the RBC of 3,974 $\mu\text{g/kg}$.

Trichloroethene was present (70,000 $\mu\text{g/kg}$) in 1 of 24 subsurface soil samples and exceeded the RBC of 7,154 $\mu\text{g/kg}$. Tetrachloroethene was present (21,000 $\mu\text{g/kg}$) in 1 of 24 subsurface soil samples and exceeded the RBC of 5,299 $\mu\text{g/kg}$.

No other soil, subsoil or sediment samples exceeded the RBC for VOCs.

4.1.3 Semivolatile Organic Compound Results

Table D3 in Appendix D provides the soil and sediment results exceeding the industrial RBC values for SVOC compounds.

SVOC benzo(a)pyrene was predominant in 15 of 25 surface soil samples and it ranged from 400 to 3,300 $\mu\text{g/kg}$, where as the RBC is 392 $\mu\text{g/kg}$. Dibenzo(a,h)anthracene ranged from 450 to 630 $\mu\text{g/kg}$ in 4 of 25 samples. The RBC for dibenzo(a,h)anthracene is 392 $\mu\text{g/kg}$.

Benzo(a)anthracene was detected in 1 sample (4,100 $\mu\text{g/kg}$), which is above the RBC (3,920 $\mu\text{g/kg}$). No other surface soil samples exceeded the SVOC RBCs.

SVOCs benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzo(b)fluoranthene, and benzo(k)fluoranthene were detected in 13 of 24 subsurface soil samples. No other subsurface soil samples exceeded the SVOC RBCs.

Benzo(a)pyrene ranged from 460 to 3,700 µg/kg in 6 of 10 sediment samples.

Dibenzo(a,h)anthracene was detected (490 µg/kg) in only 1 of 10 sediment samples. No other sediment samples exceeded the SVOC RBCs.

4.1.4 Pesticide and PCB Results

Table D4 in Appendix D provides the soil and sediment results exceeding the industrial RBC values for pesticides and PCBs.

Surface Soil Samples

Dieldrin ranged from 180 to 770 µg/kg in 8 of 25 surface soil samples where as the dieldrin RBC is 178.85 µg/kg.

Aroclor 1248 ranged from 3,100 to 15,000 µg/kg in 2 of 25 surface soil samples. The RBC for Aroclor 1248 is 1,430 µg/kg. Aroclor 1254 ranged from 1,500 to 39,000 µg/kg in 10 of 25 surface soil samples. The RBC for Aroclor 1254 is 1,430 µg/kg. Aroclor 1260 ranged from 1,500 to 62,000 µg/kg in 13 of 25 surface soil samples. The RBC for Aroclor 1260 is 1,430 µg/kg.

No other soil sample results exceeded the Pesticide/PCB RBCs.

Subsurface Soil Samples

Dieldrin ranged from 300 to 1,299 µg/kg in 7 of 24 subsurface soil samples. The dieldrin RBC is 178.85 µg/kg.

Aroclor 1254 ranged from 5,000 to 28,000 µg/kg in 4 of 24 subsurface soil samples. The RBC for Aroclor 1254 is 1,430 µg/kg. Aroclor 1260 ranged from 9,200 to 37,000 µg/kg in 4 of 25 subsurface soil samples. The RBC for Aroclor 1260 is 1,430 µg/kg.

No other subsurface soil sample results exceeded the pesticide/PCB RBCs.

Sediment Samples

Dieldrin was detected in 1 of 10 sediment samples and was 330 µg/kg

Aroclor 1248, Aroclor 1254, and Aroclor 1260 were detected in 1 sample each, and the concentration was 2,000; 9,500; and 9,400 µg/kg, respectively.

No other sediment sample results exceeded the pesticide/PCB RBCs.

4.2 GROUNDWATER AND SURFACE WATER SAMPLE RESULTS

This section describes sampling results for 19 groundwater samples (including 4 QA/QC samples) and 9 surface water samples (including 2 QA/QC samples). All analytical results were compared with groundwater and surface water RBCs that were derived by multiplying tap water RBCs by 10.

Analytical results for groundwater and surface water samples are provided in Appendix E, which contains Table E1 (metal results), Table E2 (VOC results), Table E3 (SVOC results), and Table E4 (pesticide and PCB results).

4.2.1 Metal Results

Table E1 in Appendix E provides the groundwater and surface water results exceeding the RBC for TAL metals.

The concentration of arsenic in groundwater ranged from 6.8 to 291 µg/L in 8 of 19 samples. The RBC for arsenic in groundwater is 0.45 µg/L. The concentration of vanadium ranged from 436 to 3,150 µg/L in 3 of 9 samples. The RBC for vanadium is 365 µg/L. The concentration of antimony ranged from 166 to 282 µg/L in 3 of 19 samples. The RBC for antimony is 146 µg/L. No other groundwater samples exceeded TAL metals RBCs.

Arsenic was present in 2 of 9 surface water samples as 5.6 and 6.2 µg/L. The RBC for arsenic in surface water is 0.45 µg/L. No other surface water samples exceeded TAL metals RBCs.

4.2.2 Volatile Organic Compound Results

Table E2 in Appendix E provides the groundwater and surface water sample results exceeding RBCs for VOC compounds.

The concentration of trichloroethene ranged from 0.72 to 410 µg/L in 6 of 19 groundwater samples. The RBC is 0.264 µg/L. Tetrachloroethene ranged from 42 to 340 in 3 of 19 groundwater samples. The RBC is 1.035 µg/L. A few other VOC compounds, methylene chloride, benzene, bromomethane, vinyl chloride, 1,4-dichlorobenzene, and carbon disulfide were also present in groundwater, which can be seen in Table E2 of Appendix E. No other sediment samples exceeded the RBCs for VOCs.

The concentration of benzene was 52 µg/L in only 1 of 9 surface water samples. The RBC for benzene is 3.358 µg/L. No other surface water samples exceeded the RBCs for VOCs.

4.2.3 Semivolatile Organic Compound Results

Table E3 in Appendix E provides the groundwater sample results exceeding RBC for SVOCs.

Six of 19 groundwater samples contained one or more SVOC compounds (4-methylphenol, pentachlorophenol, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzo(k)fluoranthene, benzo(b)fluoranthene, and chrysene).

No surface water sample results exceeded SVOC RBCs.

4.2.4 Pesticide and PCB Results

Table E4 in Appendix E provides the groundwater results exceeding RBCs for pesticides and PCBs.

Seven of 19 groundwater samples contained one or more pesticide and/or PCB compounds (heptachloro epoxide, dieldrin, aldrin, 4,4'-DDE (or dichlorodiphenyldichloroethylene), alpha-BHC, Aroclor 1254, and Aroclor 1260).

Aroclor 1260 was present in 5 groundwater samples ranging from 0.4 to 13 µg/L. The RBC for Aroclor 1260 is 0.33 µg/L. Aroclor 1254 was present only in 3 samples ranging from 0.98 to 14 µg/L. The RBC for Aroclor 1254 is 0.33 µg/L. All other results exceeding RBCs are presented in Table E4 in Appendix E.

No surface water results exceeded the pesticide and PCB RBCs.

4.3 POLYCHLORINATED BIPHENYL CONGENER COMPARISON

Tetra Tech senior chemist [REDACTED] compared the congeners found in on-site monitoring wells GW-114 and GW-C3 to the congeners found in sediment samples SD-09 and SD-01, which were both collected outside the property limit. The comparison statement is enclosed in Appendix F.

4.4 SOIL GAS SAMPLING RESULTS

Four soil gas samples were collected from the site on April 7, 2007 and the samples were analyzed using EPA Method TO-15A by EPA Region 3 Laboratory at Fort Meade, Maryland. There is no standard to compare the soil gas results; a general discussion of the soil gas sample results is presented in this section.

In all 4 soil gas samples, ethanol, trichlorofluoromethane, isopropyl alcohol, acetone, carbon disulfide, hexane, 2-butanone, cyclohexane, and benzene were detected. Analytical results for all 4 soil gas samples are presented in Table G1 in Appendix G. As shown in the table, the concentration of isopropyl alcohol ranged from 382 (quantitation limit is 40 and dilution factor is 40) to 230, 000 (quantitation limit is 20,000 and dilution factor is 20,000) parts per billion volume (ppbv) of air. In case of acetone, the concentration ranged from 88 (quantitation limit is 40 and dilution factor is 40) to 38,000 (quantitation factor is 20,000 and dilution factor 20,000) ppbv.

The presence of higher ranges of isopropyl alcohol and acetone may be due to the degreaser used by the driller during the drilling of monitoring wells on or around the site.

5.0 HANDLING OF INVESTIGATION-DERIVED WASTE

Sampling on site was completed on March 14, 2007 and decommissioning of all temporary monitoring wells were completed by Tetra Tech on site on April 26, 2007. All IDW was stored on site in ten 55-gallon drums (three polyethylene and seven steel drums).

On September 4, 2007, Tetra Tech personnel [REDACTED] and EPA WAM Marcos Aquino were on the Metro Container site to dispose of drums containing IDW. Personnel from AWT Environmental Services, Inc, of Sayreville, New Jersey, a subcontractor to Tetra Tech, were on

site and collected all 10 drums to send to Cycle Chem, Inc, 217 South First Street, Elizabeth, NJ 07206, for final disposal.

6.0 SUMMARY

Before taking any further action at the Metro Container site, EPA will discuss the outcome of the sampling event with the owner of Metro Container, Pennsylvania Department of Environmental Protection and the Delaware River Basin Commission.

REFERENCES

- MWH Americas, Inc (MWH). 2005. "Site Characterization Report, Trainer Industries, LLC/Former Metro Container Corporation, Trainer, Pennsylvania." November 11
- Tetra Tech EM Inc. (Tetra Tech). 1999a. "Soil Gas Sampling Methods." Standard Operating Procedure (SOP) No. 074. November.
- Tetra Tech. 1999b. "Soil Sampling." SOP No. 005. December.
- Tetra Tech. 1999c. "Using the Geoprobe System." SOP No. 054. December.
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- Tetra Tech. 2006. "Quality Assurance Project Plan (QAPP) for START." August.
- Tetra Tech. 2007. "Sampling and Analysis Plan for the Scott Manufacturing Site." January.
- U.S. Environmental Protection Agency. 2005. Groundwater Sampling and Monitoring With Direct Push Technologies." August.
- EPA 2007. "Risk-based Concentration", EPA Region 3, Philadelphia, Pennsylvania. April 4.
- U.S. Geological Survey. 1967. 7.5 Minute Series Topographic Quadrangles for Bridgeport New Jersey – Pennsylvania. Photo Revised 1994.
- USGS. 1993. 7.5 Minute Series Topographic Quadrangles for of Marcus Hook, PA-NJ-DE. Photo Revised 1993.

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION LOG
(5 Pages)

Client: EPA Region 3
Site Name: Metro Container Site
Location: Trainer, PA

Photographic Documentation

Prepared by: Tetra Tech
Photographer: TTEMI
TDD Number: E23-014-07-07-011

Photograph No. 1

Photograph Date: November 2006

Description: Stony Creek bank where sediment sample was collected by Tetra Tech.



Photograph No. 2

Photograph Date: March 6, 2007

Description: Tetra Tech collecting sediment samples.



Client: EPA Region 3
Site Name: Metro Container Site
Location: Trainer, PA

Photographic Documentation

Prepared by: Tetra Tech
Photographer: TTEMI
TDD Number: E23-014-07-07-011

Photograph No. 3

Photograph Date: March 7,
2007

Description: View of soil gas
sample collection system.



Photograph No. 4

Photograph Date: March 8,
2007

Description: View of
decontamination pad.



Client: EPA Region 3
Site Name: Metro Container Site
Location: Trainer, PA

Photographic Documentation

Prepared by: Tetra Tech
Photographer: TTEMI
TDD Number: E23-014-07-07-011

Photograph No. 5

Photograph Date: March 9,
2007

Description: View of a remote
control Geoprobe used for
subsurface soil sample collection.



Photograph No. 6

Photograph Date: March 12
2007

Description: View of
groundwater sample collection
from a temporary monitoring
well on-site.



Client: EPA Region 3
Site Name: Metro Container Site
Location: Trainer, PA

Photographic Documentation

Prepared by: Tetra Tech
Photographer: TTEMI
TDD Number: E23-014-07-07-011

Photograph No. 7

Photograph Date: March 6, 2007

Description: Subcontractor Vironex using a Geoprobe for collecting subsurface soil samples. Two personnel (left) from Tetra Tech are collecting subsurface soil samples from the location.



Photograph No. 8

Photograph Date: March 13, 2007

Description: View of subsurface soil sample core at location MC07-02.



Client: EPA Region 3
Site Name: Metro Container Site
Location: Trainer, PA

Photographic Documentation

Prepared by: Tetra Tech
Photographer: TTEMI
TDD Number: E23-014-07-07-011

Photograph No. 9

Photograph Date: March 14, 2007

Description: Drums containing IDW staged on site for future disposal.



Photograph No. 10

Photograph Date: April 26, 2007

Description: Tetra Tech and EPA WAM Morcos Aquino (right) removing temporary monitoring wells.



APPENDIX B
BORING LOG
(24 Pages)



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-56

CLIENT:

SUBCONTRACTOR: ~~Heave~~

DATE: 3/6/07

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: 1 OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 1400

GPS COORDINATES:

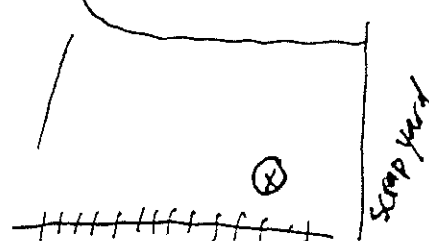
DEPTH (FEET)	REC. (Roc/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			Brown, dry, silty clay.	0-12"
2	2 3/8"	ND	26" gravel	MC07-SS-56 @
2		ND	26" → rich dark brown, moist, silty clayey silt w/ organic material.	1400 HRS.
4			↓	
5			Black, saturated, fine grain silt, homogeneous.	4.5
6			6' → Black, wet, silt w/ sand, fine grain to	MC07-SB-4.5
6			Black, wet, silt w/ gravel.	MC07-SB-56-4.5
8			Gray, moist, clay. that Decreasing	@ 1430
8			moisture	
10			↓	
12			↓	
14			To red clay, wet	
16			16' End of Borehole	
18			well installed	
20				

Well installed to 16' bgs
• sand pack 17'-4' bgs
• screen 16-6' bgs
• bentonite 4'-0' bgs

SAMPLE ID	MC07-SS-56	MC07-SB-56-4.5
DATE	3/6	
TIME	1400	1430
QC/QC ID		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
SAMPLE NOTES		

NOTES:

1st location.





Tetra Tech EM Inc.

BORING/WELL ID:
MC07-48

CLIENT:

SUBCONTRACTOR: Vironex

DATE: 3/6/07

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 10:15

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			brown gravelly clay wet	0-12"
2	34"	NO	black coarse sand + gravel w/ organics	MC07-SS-48 @ 1555
4			gray clay wet dry	MC07-SS-48-4.5
6			gray clay wet	@ 1620
8	47"	NO	light gray clay wet	
10			light gray clay wet	
12	38"	NO	brown sandy clay wet	
14				
16			brown coarse sand moist	
18				
20				

SAMPLE ID MC07-SS-48

DATE

TIME 1555

QC/QC ID

ANALYSIS/CONT/No.

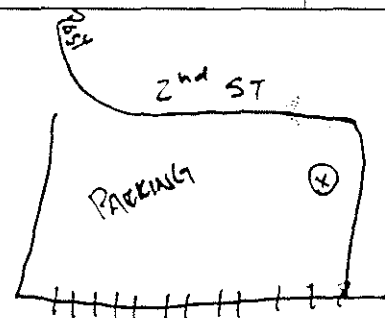
ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:





Tetra Tech EM Inc.

BORING/WELL ID:
MC07-12

CLIENT:

SUBCONTRACTOR: *Vironet*

DATE: 3/7/07

PROJECT: *Metro Container*DIRECT PUSH RIG: *Geoprobe*

SHEET NO.: OF

JOB NO.:

DRILLER: *II*

INSPECTOR:

BEGIN/END TIME: 1515

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/45 In.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	<i>Lo</i>			
1	<i>↑</i>	<i>ND</i>	Topsoil / silty clay. Brown. Moist	<i>0-12"</i>
2	<i>50</i>	<i>ND</i>	Brown. moist. Gravelly silt w/ med-gr. sand.	<i>MC07-SS-12</i>
3	<i>↓</i>	<i>ND</i>	Fine gr. silt, black, dry-moist	<i>1345</i>
4	<i>↓</i>		Anthropogenic mat. (red brick) w/ silt.	
5	<i>↓</i>		brown/black, moist, clay (4-5')	
6	<i>↑</i>	<i>ND</i>	black/brown, moist, silty clay	
7	<i>↓</i>		brown, moist, clay	
8	<i>52"</i>	<i>ND</i>		
9	<i>↓</i>		brown/orange, moist, clayey sand, fine grain.	
10	<i>↓</i>		10' bgs end of borehole.	
12				
14				
16				
18				

SAMPLE ID	MC07-SS-12	MC07-SB-12-09
DATE	3/7	3/7
TIME	1345	1345
QC/QC ID		MS/MSD
ANALYSIS/CONT/No.		(9 ENCLVS)
ANALYSIS/CONT/No.		2802
ANALYSIS/CONT/No.		1202
SAMPLE NOTES		

NOTES:





Tetra Tech EM Inc.

BORING/WELL ID:

MC07-133

CLIENT:

SUBCONTRACTOR:

Vironex

DATE: 3/7/07

PROJECT:

Metro Cantamir

DIRECT PUSH RIG:

Geoprobe

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 1605

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/40-TP)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0		AD		
0		NO	Silty clay, brown, moist	0-12"
2	36"		Silty clay, anthropogenic material (slag, red brick) dry → dry/moist.	MC07-SS-133
4		1.5 AD		
4		NO		
5		NO	brown, wet, clayey silt w/ organic material, red brick. Very poor recovery.	
6		NO		
8	18"			
10			clayey silt, wood chips, brown/black. wet. brown, wet, clay	8'.
12				MC07-SS-133-02
14				2/630
16			End of borehole.	
18				

SAMPLE ID	MC07-SS-133	MC07-SP-133
DATE		
TIME		
QC/QC ID		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
SAMPLE NOTES		

NOTES



Tetra Tech EM Inc.

WELL

BORING/WELL ID:

05-MAT-129

CMC07-129

CLIENT:

SUBCONTRACTOR:

DATE:

3/8/01

PROJECT:

DIRECT PUSH RIG:

SHEET NO.:

OF

JOB NO.:

DRILLER:

Vernex

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			FID	
2	3"	ND	dark brown sandy clay + organics dry	
4		ND	white sand + gravel + cement dry	
5		ND	black coarse sand + gravel dry	
6				
8			wet	
10	10"			
12		ND	gray clay moist	
14				
16				
18				

MSB 5.0-129
400

SAMPLE ID

DATE

TIME

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:



Tetra Tech EM Inc.

NO WAU

BORING/WELL ID:

05-MET-75

(MC07-75)

CLIENT:

SUBCONTRACTOR:

DATE:

3/8/07

PROJECT: METRO

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			F&D	
2	32"	ND	brick, gravel + debris dry	
4			brown clay loam	
6			brown clay loam w/ brick + gravel	
8	8"	ND		
10		ND	black coarse sand + clay moist	
12	7"	ND	black wet clay	
14				
16				
18				

MC07-534.0-75
1500

SAMPLE ID				NOTES:
DATE				
TIME				
QC/QC ID				
ANALYSIS/CONT/No.				
ANALYSIS/CONT/No.				
ANALYSIS/CONT/No.				
ANALYSIS/CONT/No.				
SAMPLE NOTES				



Tetra Tech EM Inc.

WELL

BORING/WELL ID:

05-MET-72

M07-5840-7

CLIENT:

SUBCONTRACTOR:

DATE: 3/8/07

PROJECT: METRO CONTAINER

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER: Viorex

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			PID brown clay dry	
2	42"		brown/grey/black sand, gravel, some glass + debris dry	
4		0.7 22.9	brown clay dry	4.0 M07-5840-72 1330
6		4.9 22	grey/white sand, gravel wood dry	
		1.2 4.5	brown clay dry	
		6.7 26	white gravel sand debris dry	
8	35"	0.7 2.9		
10		0.2 1.2	dark grey clay moist	
12				
14				
16				
18				

MS/MSD

SAMPLE ID	DATE	TIME	QC/QC ID	ANALYSIS/CONT/No.	ANALYSIS/CONT/No.	ANALYSIS/CONT/No.	ANALYSIS/CONT/No.	SAMPLE NOTES



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-50S

CLIENT:

SUBCONTRACTOR: Vironex

DATE: 3/8

PROJECT:

DIRECT PUSH RIG: Geoprobe

SHEET NO. 1 OF 1

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 0945

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/48 In.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			dry black gravel	MC07-SS-50S 950
2	50"	ND	brown clay + gravel dry	MC07-SB1S-50 1000
4		ND	black clay dry black sand + gravel moist	
5			black clay moist light grey	
6		ND	wet clay + gravel (grey)	
8	60"	ND	dry brown clay	
10				
12	60"	ND	dry brown clay	
14		ND	dry brown / grey sand gravel clay	
15			dry brown clay	
16	12"		wet sandy clay moist brown sandy clay	
18			End of borehole	

SAMPLE ID MC07-SS-50S MC07-SB-50S-1.5

DATE 3/8

1000

TIME 0950

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-21

CLIENT:

SUBCONTRACTOR: Vironex

DATE: 3/8

PROJECT:

DIRECT PUSH RIG: Casprab 6410DT

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

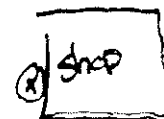
BEGIN/END TIME: 1530

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			2.2 Asphalt	0-12
			2.4 Dry Sandy gravel	MC07-SS-21 @ 1530
2	38"	ND		
			2.2	
4			Grey Clay	
			2.1	
5			2.2	
6		1.5	35	
			8.1 Grey Clay	8.5'
8		ND	2.4	MC07-SS-21-8.5
			4.8	@ 1540
10			1.7	
			Bottom of borehole	
12				
14				
16				
18				

SAMPLE ID			
DATE			
TIME			
QC/QC ID			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
SAMPLE NOTES			

NOTES:





Tetra Tech EM Inc.

BORING/WELL ID:

MC07-38

CLIENT:

SUBCONTRACTOR:

DATE: 3/8

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: 1 OF 1

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 0900

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ In.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	60			
0	↑	ND	Brown, Dry, Silty Soil w/ gravel	0-12
1	↑	ND	- Brown, Dry, Silty clay	MC07-SS-38-0 0915
2	↑	ND	- Brown, Black Silty clay moist	
3	↑		↓	4.5
4	44		- Brown, wet, clay	0930 MC07-SB-38-4.5
5	↑	Δ	↓	0935 MC07-SB-38B-4.5
6	↑	NO	- Brown, wet, clay	
7	60	NO		
8	↑			
10	↑			
12			- End of borehole	
14				
16				
18				

SAMPLE ID MC07-SS-38

MC07-SB-38-4.5

NOTES:

DATE

TIME 0915

QC/QC ID

MC07-SB-38B-4.5

0930

0935

Dupe

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-125

CLIENT:

SUBCONTRACTOR:

DATE: 3/9/07

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 1545

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			0-2" grey sandy loam dry	
2	32		2-4" gravel white dry	
4			black sand + gravel dry	
5			↓	
6			coarse sand + gravel moist	
8	141		black coarse sand + gravel wet	
10			↓	
12			EoB	
14				
16				
18				

SAMPLE ID

MC07-SS-125

MC07-SB-125-8.5

NOTES:

DATE

↓

↓

TIME

1545

1550

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES



Tetra Tech EM Inc.

BORING/WELL ID:
MC07-119

CLIENT:

SUBCONTRACTOR:

DATE: 3/9

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 1500

GPS COORDINATES:

DEPTH (FEET)	LOG REC. (Rec/ to in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	↑	5ppm	moist, brown sandy silt w/ gravel, crushed stone	0-12
2	↓		↓	MC07-SS-119 @ 1500
4	↓		4' orange-red, clay, moist (mottled w/ soft white clay)	
5	↓		↓	5'
6			5' end of borehole	MC07-SS-119-5.0
8			well	@ 1510
10			Well advanced to 12'	
12			Screened 2'-12' bgs.	
14				
16				
18				

SAMPLE ID	MC07-SS-119	MC07-SS-119-5.0	NOTES:
DATE	3/9	3/9	
TIME	1500	1510	
QC/QC ID			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
SAMPLE NOTES			



Tetra Tech EM Inc.

BORING/WELL ID: **ML07-107****05-MET-107**

CLIENT:

SUBCONTRACTOR:

DATE: **3/9/07**PROJECT: **METRO containers**

DIRECT PUSH RIG:

SHEET NO.: **OF**

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: **1500**

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			0-1 Dry base sand	
1			1- moist black silty sand/gravel	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

ML07-SB-107
1315**ML07-SB107-7.5**
@1320

moist black clay

EDB

well installed screened 10' - 0 24" stick up

107-7.5

SAMPLE ID	ML07-107	ML07-SB-107	NOTES:
DATE	ML07-SS-107	3/9	
TIME	1315	1320	
QC/QC ID			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
SAMPLE NOTES			



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-~~123~~ 62

CLIENT:

SUBCONTRACTOR:

DATE: 3/9

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 11:45

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	↑		brown, gray, dry sandy silt	0-12
1	↑		black, oily stained sandy silt.	MC07-SS-62 @ 1200
2	↑		dry, gray/black, crushed stone/screenings	
3	↑			
4	↓		Red/gray, dry, crushed stone. Elevation PID curve red discoloration	
5	↑		Black, moist → wet, crushed approx. s.	MC07-SB-62-SS @ 1210
6	↑		stone.	
7	↑			
8	↓			
9	↓			
10	↓		black clay	
11	↓		end of boring	
12			Install well for 7' log >	
13			screen 2' - 7' log >	
14				
15				
16				
17				
18				

SAMPLE ID MC07-SS-62

MC07-SB-62

NOTES:

DATE

TIME

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-115

CLIENT:

SUBCONTRACTOR:

Vironet

DATE: 3/12/07

PROJECT: Metro Container

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec./In.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	40		moist, Brown, silt w/ gravel	0-12"
1	10	PID	moist, red, fine grain silt-like, mixed w/ gravel, sand, wood debris.	MC07-SS-115 0950
2	SS	FID-42		
4			dry, white - beige, gravel	
5			moist, red, fine-grain silt-like material w/ wood debris	
6			Wet, brown w/ red, med grain sand w/ gravel, silt, wood debris	
8	46			
10			wet, brown/red, gravelly silt	
12			wet - moist, brown/black/gray, silty.	MC07-SB-115-13 0955
14				
16			Well installed to 19'	
18			Screemed 19-4' logs.	

SAMPLE ID	MC07-SS-115	MC07-SB-115-13
DATE	3/12	3/12
TIME	0950	0955
QC/QC ID		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
SAMPLE NOTES		

NOTES:



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-114

CLIENT:

SUBCONTRACTOR:

DATE: 3/12

PROJECT: Metro Container

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	LOG REC. (Rec./In.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	↑	10PID	Brown, Moist, silty clay.	0-12
2	↑	15PID	Dry, Red, silt-like fill from lagoon.	MC07-SS-114 @ 11:00
4	↑		Black, Dry, silty	
6	↑		Beige, Dry, sand	
8	↑		wood chips/mulch	
10	↑		wet, black, silty w/mulch.	
12	↑			
14	↑			
16	↑			
18	↑			
20	↑			

No Recovery 16-20' so (16)
Sample collected @ 16.5'

16.5'
MC07-SS-114-16.5

NOTES:

Lagoon Area.

SAMPLE ID

MC07-SS-114

MC07-SS-114-16.5

DATE

3/12

3/12

TIME

11:00

11:10

8W

QC/QC ID

ANALYSIS/CONT/No.

Sample Not Collected →

ANALYSIS/CONT/No.

No recovery

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

2285 hbg e

AR103269



Tetra Tech EM Inc.

BORING/WELL ID:
MC07-109

CLIENT:

SUBCONTRACTOR:

DATE:

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0		ND	PID 2.8 gravel	ML07-SS-109 1610
2	26	1.7	13	
4		1.1	9 black clay + coarse sand	
5				
6		1.3	22 black clay + coarse sand wet	CL' ML07-SS-109 1620
8		1.9	46	
10	69	ND	10 black clay	
10			10	
			END of Boring	
12				
14				
16				
18				

SAMPLE ID			
DATE			
TIME			
QC/QC ID			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
ANALYSIS/CONT/No.			
SAMPLE NOTES			

NOTES:



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-110

CLIENT:

SUBCONTRACTOR:

DATE: 3/12/07

PROJECT: Metro

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 1415

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			Dry, Brown, S.H.	
2	32	SP10	Dry, Red, Buck-like (crushed)	
	20F10		Strong sulfur odor, mixed with sand	
4				
6			Wet, black, crushed buck (similar)	
8				
10			wood debris mulch	
12			No Recovery	
14				
16			16' End of Borehole	
18				

Already Collected in week 1

sample collected

SAMPLE ID MC07-SS-110

DATE 3/12

TIME 1430

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:

Sample @ 12' could not be collected because there was no recovery in the core.



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-100

CLIENT:

SUBCONTRACTOR:

DATE:

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0				
0	↑	ND	Dry, Buff, Sand	Collected 1st used
2	↓	SPID	Moist, Brown, silty clay	
3.6	↓			
4	↓			
6	↑	1 PID	moist, Brown, silty sand.	
8	↓	BLPID		
10	↓		moist, brown, clay w/ gravel.	
10	↑		Sand/gravel	
12	↓	ND		
12	↓	33 SPID	Wet, black, fine grained silt/sand.	
14	↓			
16	↓			
18	↓	ND		
18	↓	60 SPID		
20	↓		moist, Brown, clay.	

MC07-SB-100-17.5 @ 10/15

SAMPLE ID	MC07-SB-100-17.5
DATE	10/15 3/12
TIME	
QC/QC ID	
ANALYSIS/CONT/No.	
ANALYSIS/CONT/No.	
ANALYSIS/CONT/No.	
ANALYSIS/CONT/No.	
SAMPLE NOTES	

NOTES:



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-C1

CLIENT:

SUBCONTRACTOR:

DATE:

3/12

PROJECT:

DIRECT PUSH RIG:

SHEET NO.:

OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/ 48 In.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			silty clay, brown, moist	MC07-SS-C1 @ 1640
2			gravel, dry, red (crushed brick)	
4			organic debris, moist, black (covered mulch)	
6			gravel, silty clay	
8			black, wet, fine grain silt, homogeneous.	
10				
12				
14				MC07-SB-C1-13 @ 1650
16				
18				

15' end of borehole.

SAMPLE ID	MC07-SS-C1	MC07-SB-C1-13
DATE		
TIME	1640	1650
QC/QC ID		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
ANALYSIS/CONT/No.		
SAMPLE NOTES		

NOTES:

Line adjacent to Slamy Creek

s. creek

X

X

X

X

X

C-1



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-CZ

CLIENT:

SUBCONTRACTOR:

DATE:

PROJECT:

DIRECT PUSH RIG:

SHEET NO.:

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME:

GPS COORDINATES:

Metro Center

Virentex

3/13/07

1 OF 1

0900

DEPTH (FEET)	REC. (Rec/45 Th.)	PID HS	TEXTURAL DESCRIPTION	6-12"	SAMPLE (DEPTH)
0	↑		Brown, moist, silty clay w/ gravel		MC07-SS-CZ C 0915-09C
2	45		crushed brick, red, w/ gravel		
4	↓		Brown, moist, clay.		
6	↑				
8	34				
10	↓		Black, wet, silt-like, homogeneous,		
12	36				
14	↓		only shear.	14'	MC07-SB-CZ-14 C 0920 and dupe
16	36				MC07-SB-CZB-14 C 0925
18	↓		Gray/Green, moist, sand/gravel		
20	↓		Brown, moist, clay		

SAMPLE ID

MC07-SS-CZ

MC07-SB-CZ-14

NOTES:

DATE

3/13

3/13

TIME

0915

0920

QC/QC ID

MC07-SB-CZB-14

ANALYSIS/CONT/No.

0925

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

Creek N →
① ② ③ ④ ⑤
CZ



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-C3

CLIENT:

SUBCONTRACTOR:

DATE: 3/13

PROJECT:

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 0930

GPS COORDINATES:

DEPTH (FEET)	REC. (Roc/40-in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE DEPTH
0	66		Brown, moist, silty clay w/ gravel	MC07-SS-C3 950
2	42		Black, red Brown, moist, clay.	
4				
6			Wet, black, silty.	
8	26			MC07-SS-C3-8.0
10				
12	13			
14				
16				
18	26		Wet, black, sandy silt. moist, red/brown, sand	
20			20' - moist, brown, clay	
			20' End of Borehole	

SAMPLE ID MC07-SS-C2 MC07-SS-C3-8.0

DATE 3/13 3/13

TIME 0930 0953

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:

← Sandy Creek N →
⊗ ⊗ ⊗ ⊗ ⊗
C3



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-CY

CLIENT:

SUBCONTRACTOR: *Virex*DATE: *3/13*PROJECT: *Metro Container*

DIRECT PUSH RIG:

SHEET NO.: *1* OF *1*

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: *1130*

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0	↑	NO	Brown, moist, silty clay w/ gravel	0-12"
2	30	NO	Red Back, sandy silt, moist.	MC07-SS-CY @ 1130
4	↓	-	↓	
6			Black, wet, silty sediment	
8			↓ gravel	
10		PID 10 FID 10	wet, black, fine grained silt, homogeneous	MC07-SS-CY-10 @ 1135
12		PID 12 FID 12	↓ Black, wet, clay silty clay	
14			↓ Beige, Dry, clay w/ gravel	
16			End of Borehole	
18				

SAMPLE ID MC07-SS-CY MC07-SS-CY-10

DATE *3/13* *3/13*TIME *1130* *1135*

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:

← Stoney Creek → N →

x x x (x) x

CY



Tetra Tech EM Inc.

BORING/WELL ID:

MC07-CS

CLIENT:

SUBCONTRACTOR:

Vironex

DATE:

PROJECT: Metro Container

DIRECT PUSH RIG:

SHEET NO.: OF

JOB NO.:

DRILLER:

INSPECTOR:

BEGIN/END TIME: 1140

GPS COORDINATES:

DEPTH (FEET)	REC. (Rec/48 in.)	PID HS	TEXTURAL DESCRIPTION	SAMPLE (DEPTH)
0			Silty clay, mast, brown	0-12"
2	2/0		Silty clay w/ sand, gravel, brick	MC07-SS-CS-6.0 1145
4	4/0			
6	5/0		Sandy silt, black, wet.	MC07-SB-CS-6.0
8	24		black, wet, silty sediment	0 1150
10				
12	50	2/10	black, wet, clay	
14			grey, mast, clay	
16			End of Borehole	
18				

SAMPLE ID MC07-SS-CS MC07-SB-CS-6.0

DATE 3/8 3/13

TIME 1145 1150

QC/QC ID

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

ANALYSIS/CONT/No.

SAMPLE NOTES

NOTES:

←← Stoney Creek W →→
x x x x (x)
CS

APPENDIX C
SAMPLING SUMMARY
(2 Pages)

APPENDIX C
TABLE C1
SAPLING SUMMARY
Metro Container Site, Trainer, Pennsylvania

Location	Sample Identifier	Matrix	Sample Date	Sample Time	Depth (ft)
MC07-129	MC07-GW-129	Ground Water	3/9/2007	15:35	
MC07-133	MC07-GW-133	Ground Water	3/9/2007	16:00	
MC07-48	MC07-GW-48	Ground Water	3/9/2007	10:05	
MC07-50	MC07-GW-50	Ground Water	3/9/2007	11:20	
MC07-62	MC07-GW-62	Ground Water	3/12/2007	15:15	
MC07-72	MC07-GW-72	Ground Water	3/12/2007	11:25	
MC07-107	MC07-GW-107	Ground Water	3/13/2007	14:45	
MC07-114	MC07-GW-114	Ground Water	3/13/2007	16:30	
MC07-114	MC07-GW-114B	Ground Water	3/13/2007	16:35	
MC07-115	MC07-GW-115	Ground Water	3/13/2007	16:20	
MC07-119	MC07-GW-119	Ground Water	3/13/2007	10:00	
MC07-125	MC07-GW-125	Ground Water	3/13/2007	10:30	
Field QC	MC07-FB-01/02	Ground Water	3/14/2007	16:00	
Field QC	MC07-RB-01/02	Ground Water	3/14/2007	16:05	
Field QC	MC07-TB-01/02	Ground Water	3/14/2007	16:10	
MC07-110	MC07-GW-110	Ground Water	3/14/2007	9:40	
MC07-56	MC07-GW-56	Ground Water	3/14/2007	12:55	
MC07-75	MC07-GW-75	Ground Water	3/14/2007	12:00	
MC07-C3	MC07-GW-C3	Ground Water	3/14/2007	10:45	
MC07-SW/SD-01	MC07-SD-01	Sediment	3/6/2007	12:45	
MC07-SW/SD-01	MC07-SD-01D	Sediment	3/6/2007	12:50	
MC07-SW/SD-02	MC07-SD-02	Sediment	3/6/2007	8:50	
MC07-SW/SD-03	MC07-SD-03	Sediment	3/6/2007	9:30	
MC07-SW/SD-04	MC07-SD-04	Sediment	3/6/2007	13:45	
MC07-SW/SD-05	MC07-SD-05	Sediment	3/6/2007	15:10	
MC07-SW/SD-06	MC07-SD-06	Sediment	3/6/2007	15:25	
MC07-SW/SD-09	MC07-SD-09	Sediment	3/6/2007	14:10	
MC07-SW/SD-10	MC07-SD-10	Sediment	3/6/2007	14:10	
MC07-SW/SD-07	MC07-SD-07	Sediment	3/7/2007	15:15	
MC07-48	MC07-SB-48-4.5	Soil (> 12)	3/6/2007	16:20	4.5
MC07-56	MC07-SB-56-4.5	Soil (> 12)	3/6/2007	14:30	4.5
MC07-12	MC07-SB-12-09	Soil (> 12)	3/7/2007	15:45	9
MC07-133	MC07-SB-133-08	Soil (> 12)	3/7/2007	16:30	8
MC07-109	MC07-SB-109-6.0	Soil (> 12)	3/8/2007	16:20	6
MC07-129	MC07-SB-129-05	Soil (> 12)	3/8/2007	14:00	5
MC07-21	MC07-SB-21-8.5	Soil (> 12)	3/8/2007	15:30	8.5
MC07-38	MC07-SB-38B-4.5	Soil (> 12)	3/8/2007	9:35	4.5
MC07-50S	MC07-SB-50S-1.5	Soil (> 12)	3/8/2007	10:00	1.5
MC07-75	MC07-SB-75-4.0	Soil (> 12)	3/8/2007	15:00	4
MC07-107	MC07-SB-107-7.5	Soil (> 12)	3/9/2007	13:20	7.5
MC07-119	MC07-SB-119-05	Soil (> 12)	3/9/2007	15:10	5
MC07-125	MC07-SB-125-8.5	Soil (> 12)	3/9/2007	15:50	8.5
MC07-38	MC07-SB-38-4.5	Soil (> 12)	3/9/2007	9:30	4.5
MC07-62	MC07-SB-62-5.5	Soil (> 12)	3/9/2007	12:10	5.5
MC07-72	MC07-SB-72-4.0	Soil (> 12)	3/9/2007	13:30	4
MC07-100	MC07-SB-100-17.5	Soil (> 12)	3/12/2007	16:15	17.5
MC07-C1	MC07-SB-C1-13	Soil (> 12)	3/12/2007	16:50	13

APPENDIX C
TABLE C1
SAPLING SUMMARY
Metro Container Site, Trainer, Pennsylvania

Location	Sample Identifier	Matrix	Sample Date	Sample Time	Depth (ft)
MC07-115	MC07-SB-115-13	Soil (> 12)	3/13/2007	9:55	13
MC07-C2	MC07-SB-C2-14	Soil (> 12)	3/13/2007	9:20	14
MC07-C2	MC07-SB-C2B-14	Soil (> 12)	3/13/2007	9:25	14
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	3/13/2007	9:55	8
MC07-C4	MC07-SB-C4-10	Soil (> 12)	3/13/2007	11:35	10
MC07-C5	MC07-SB-C5-6.0	Soil (> 12)	3/13/2007	11:50	6
MC07-48	MC07-SS-48	Soil (0-12)	3/6/2007	15:55	
MC07-56	MC07-SS-56	Soil (0-12)	3/6/2007	14:00	
MC07-100	MC07-SS-100	Soil (0-12)	3/7/2007	16:20	
MC07-110	MC07-SS-110	Soil (0-12)	3/7/2007	16:45	
MC07-12	MC07-SS-12	Soil (0-12)	3/7/2007	13:45	
MC07-129	MC07-SS-129	Soil (0-12)	3/7/2007	14:15	
MC07-133	MC07-SS-133	Soil (0-12)	3/7/2007	14:00	
MC07-75	MC07-SS-75	Soil (0-12)	3/7/2007	15:45	
MC07-109	MC07-SS-109	Soil (0-12)	3/8/2007	16:10	
MC07-21	MC07-SS-21	Soil (0-12)	3/8/2007	15:40	
MC07-38	MC07-SS-38	Soil (0-12)	3/8/2007	9:15	
MC07-50S	MC07-SS-50S	Soil (0-12)	3/8/2007	9:50	
MC07-107	MC07-SS-107	Soil (0-12)	3/9/2007	13:15	
MC07-119	MC07-SS-119	Soil (0-12)	3/9/2007	15:00	
MC07-125	MC07-SS-125	Soil (0-12)	3/9/2007	15:45	
MC07-62	MC07-SS-62	Soil (0-12)	3/9/2007	12:00	
MC07-114	MC07-SS-114	Soil (0-12)	3/12/2007	11:00	
MC07-115	MC07-SS-115	Soil (0-12)	3/12/2007	9:55	
MC07-115	MC07-SS-115	Soil (0-12)	3/12/2007	9:55	
MC07-115	MC07-SS-115	Soil (0-12)	3/12/2007	9:55	
MC07-C1	MC07-SS-C1	Soil (0-12)	3/12/2007	16:40	
MC07-C2	MC07-SS-C2	Soil (0-12)	3/13/2007	9:15	
MC07-C3	MC07-SS-C3	Soil (0-12)	3/13/2007	9:50	
MC07-C4	MC07-SS-C4	Soil (0-12)	3/13/2007	11:30	
MC07-C5	MC07-SS-C5	Soil (0-12)	3/13/2007	11:45	
MC07-SG-01	MC07-SG-01	Soil Gas	3/7/2007	11:41	
MC07-SG-02	MC07-SG-02	Soil Gas	3/7/2007	11:20	
MC07-SG-03	MC07-SG-03	Soil Gas	3/7/2007	11:07	
MC07-SG-04	MC07-SG-04	Soil Gas	3/7/2007	10:30	
MC07-SW/SD-01	MC07-SW-01	Surface Water	3/6/2007	12:45	
MC07-SW/SD-01	MC07-SW-01D	Surface Water	3/6/2007	12:50	
MC07-SW/SD-02	MC07-SW-02	Surface Water	3/6/2007	8:50	
MC07-SW/SD-03	MC07-SW-03	Surface Water	3/6/2007	9:30	
MC07-SW/SD-04	MC07-SW-04	Surface Water	3/6/2007	13:45	
MC07-SW/SD-05	MC07-SW-05	Surface Water	3/6/2007	15:10	
MC07-SW/SD-06	MC07-SW-06	Surface Water	3/6/2007	15:25	
MC07-SW/SD-02	MC07-SW-07	Surface Water	3/7/2007	15:15	
MC07-SW/SD-07	MC07-SW-07	Surface Water	3/7/2007	15:15	

APPENDIX D
SOIL AND SEDIMENT SAMPLE RESULTS
(9 Pages)

GENERAL NOTES FOR SAMPLE-RESULT TABLES
Metro Container Site, Trainer, Pennsylvania

GW	= Ground Water	RBC	= Risk-based Concentration
MC	= Metro Container Site	SW	= Surface Water
µg/L	= microgram per liter	SD	= Sediment
µg/K	= microgram per kilogram	SB	= Subsurface Soil Sample
PCB	= Polychlorinated biphenyl	SS	= Surface Soil Sample
Q	= Qualifier	TW	= Tap Water

APPENDIX - D
TABLE - D1
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - METALS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result mg/kg	Q	RBC mg/kg
MC07-100	MC07-SB-100-17.5	Soil (> 12)	12-Mar-07	Total metals	7440-38-2	ARSENIC	29.7		1.91
MC07-100	MC07-SS-100	Soil (0-12)	07-Mar-07	Total Metals	7440-38-2	ARSENIC	3.2	L	1.91
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	Total metals	7440-38-2	ARSENIC	50.8		1.91
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	Total metals	7439-92-1	LEAD	4300	J	1000
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	8.2		1.91
MC07-109	MC07-SS-109	Soil (0-12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	2		1.91
MC07-110	MC07-SS-110	Soil (0-12)	07-Mar-07	Total Metals	7439-92-1	LEAD	1240		1000
MC07-114	MC07-SS-114	Soil (0-12)	12-Mar-07	Total metals	7440-38-2	ARSENIC	3.8	B	1.91
MC07-115	MC07-SB-115-13	Soil (> 12)	12-Mar-07	Total metals	7440-38-2	ARSENIC	2.6	B	1.91
MC07-115	MC07-SB-115-13	Soil (> 12)	12-Mar-07	Total metals	7439-92-1	LEAD	4370	J	1000
MC07-12	MC07-SS-12	Soil (0-12)	07-Mar-07	Total metals	7440-38-2	ARSENIC	3.5		1.91
MC07-125	MC07-SS-125	Soil (0-12)	09-Mar-07	Total metals	7440-38-2	ARSENIC	11.5		1.91
MC07-129	MC07-SS-129	Soil (0-12)	07-Mar-07	Total Metals	7440-38-2	ARSENIC	15.1	L	1.91
MC07-129	MC07-SB-129-05	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	4.5		1.91
MC07-133	MC07-SS-133	Soil (0-12)	07-Mar-07	Total metals	7440-38-2	ARSENIC	9.1		1.91
MC07-133	MC07-SB-133-08	Soil (> 12)	07-Mar-07	Total Metals	7440-38-2	ARSENIC	6.3	L	1.91
MC07-21	MC07-SB-21-8.5	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	3.3		1.91
MC07-21	MC07-SS-21	Soil (0-12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	2.1		1.91
MC07-38	MC07-SB-38-4.5	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	13.4		1.91
MC07-38	MC07-SS-38	Soil (0-12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	4.5		1.91
MC07-38	MC07-SB-38B-4.5	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	8.3		1.91
MC07-48	MC07-SB-48-4.5	Soil (> 12)	06-Mar-07	Total Metals	7440-38-2	ARSENIC	7.7	L	1.91
MC07-48	MC07-SS-48	Soil (0-12)	06-Mar-07	Total Metals	7440-38-2	ARSENIC	7.1	L	1.91
MC07-50S	MC07-SS-50S	Soil (0-12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	23.3		1.91
MC07-50S	MC07-SB-50S-1.5	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	5.3		1.91
MC07-56	MC07-SS-56	Soil (0-12)	06-Mar-07	Total Metals	7440-38-2	ARSENIC	6.2	L	1.91
MC07-56	MC07-SB-56-4.5	Soil (> 12)	06-Mar-07	Total Metals	7440-38-2	ARSENIC	28.9	L	1.91
MC07-62	MC07-SB-62-5.5	Soil (> 12)	09-Mar-07	Total metals	7440-38-2	ARSENIC	3.4		1.91
MC07-62	MC07-SS-62	Soil (0-12)	09-Mar-07	Total metals	7440-38-2	ARSENIC	9.7		1.91
MC07-72	MC07-SS-72	Soil (0-12)	07-Mar-07	Total Metals	7440-38-2	ARSENIC	5.5	L	1.91
MC07-72	MC07-SB-72-4.0	Soil (> 12)	08-Mar-07	Total metals	7440-38-2	ARSENIC	87.8		1.91
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	Total metals	7439-92-1	LEAD	1240	J	1000
MC07-75	MC07-SS-75	Soil (0-12)	07-Mar-07	Total Metals	7440-38-2	ARSENIC	5.5	L	1.91
MC07-C1	MC07-SB-C1-13	Soil (> 12)	12-Mar-07	Total metals	7440-38-2	ARSENIC	15.9		1.91
MC07-C1	MC07-SS-C1	Soil (0-12)	12-Mar-07	Total metals	7440-38-2	ARSENIC	2.6	B	1.91
MC07-C1	MC07-SS-C1	Soil (0-12)	12-Mar-07	Total metals	7439-92-1	LEAD	1220	J	1000
MC07-C2	MC07-SB-C2-14	Soil (> 12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	7.2		1.91
MC07-C2	MC07-SB-C2B-14	Soil (> 12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	2.4	B	1.91
MC07-C2	MC07-SS-C2	Soil (0-12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	3.8	B	1.91
MC07-C2	MC07-SS-C2	Soil (0-12)	13-Mar-07	Total metals	7439-92-1	LEAD	2060	J	1000
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	35.6		1.91
MC07-C3	MC07-SS-C3	Soil (0-12)	13-Mar-07	Total metals	7439-92-1	LEAD	1340	J	1000
MC07-C3	MC07-SS-C3	Soil (0-12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	2.3	B	1.91
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	2.4	B	1.91
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	Total metals	7439-92-1	LEAD	2340	J	1000
MC07-C4	MC07-SB-C4-10	Soil (> 12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	18.7		1.91
MC07-C5	MC07-SB-C5-6.0	Soil (> 12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	4.3	B	1.91

APPENDIX - D
TABLE - D1
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - METALS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result	Q	RBC
							mg/kg		mg/kg
MC07-C5	MC07-SS-C5	Soil (0-12)	13-Mar-07	Total metals	7440-38-2	ARSENIC	4.8	B	1.91
MC07-SW/SD-01	MC07-SD-01	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	5.7		1.91
MC07-SW/SD-01	MC07-SD-01D	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	2.1	L	1.91
MC07-SW/SD-02	MC07-SD-02	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	7.1	L	1.91
MC07-SW/SD-03	MC07-SD-03	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	4.4	L	1.91
MC07-SW/SD-06	MC07-SD-06	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	3.4	L	1.91
MC07-SW/SD-07	MC07-SD-07	Sediment	07-Mar-07	Total metals	7440-38-2	ARSENIC	4.5		1.91
MC07-SW/SD-09	MC07-SD-09	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	8.9	L	1.91
MC07-SW/SD-10	MC07-SD-10	Sediment	06-Mar-07	Total Metals	7440-38-2	ARSENIC	8.2	L	1.91

APPENDIX - D
TABLE - D2
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - VOLATILE ORGANIC COMPOUNDS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No.	Analyte	Result ug/Kg	Q	RBC ug/Kg
MC07-100	MC07-SB-100-17.5	Soil (> 12)	12-Mar-07	TCL volatiles	123-91-1	1,4-Dioxane	2600000	R	260145.45
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL volatiles	123-91-1	1,4-Dioxane	5400000	R	260145.45
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL volatiles	110-82-7	Cyclohexane	490	J	0.00
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL volatiles	108-10-1	4-Methyl-2-pentanone	2300		0.00
MC07-115	MC07-SB-115-13	Soil (> 12)	13-Mar-07	TCL volatiles	75-01-4	Vinyl chloride	4100		3974.44
MC07-115	MC07-SB-115-13	Soil (> 12)	13-Mar-07	TCL volatiles	79-01-6	Trichloroethene	70000		7154.00
MC07-115	MC07-SB-115-13	Soil (> 12)	13-Mar-07	TCL volatiles	127-18-4	Tetrachloroethene	21000		5299.26
MC07-21	MC07-SB-21-8.5	Soil (> 12)	08-Mar-07	TCL volatiles	110-82-7	Cyclohexane	210	J	0.00
MC07-62	MC07-SB-62-5.5	Soil (> 12)	09-Mar-07	TCL volatiles	108-10-1	4-Methyl-2-pentanone	1100	J	0.00
MC07-72	MC07-SB-72.4.0	Soil (> 12)	08-Mar-07	TCL volatiles	110-82-7	Cyclohexane	37		0.00
MC07-C2	MC07-SB-C2-14	Soil (> 12)	13-Mar-07	TCL volatiles	123-91-1	1,4-Dioxane	510000	R	260145.45
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	TCL volatiles	123-91-1	1,4-Dioxane	450000	R	260145.45
MC07-SW/SD-03	MC07-SD-03	Sediment	06-Mar-07	TCL volatiles	110-82-7	Cyclohexane	4100	J	0.00
MC07-SW/SD-04	MC07-SD-04	Sediment	06-Mar-07	TCL volatiles	110-82-7	Cyclohexane	10000	J	0.00
MC07-SW/SD-05	MC07-SD-05	Sediment	06-Mar-07	TCL volatiles	110-82-7	Cyclohexane	5200	J	0.00
MC07-109	MC07-SS-109	Soil (0-12)	08-Mar-07	TCL volatiles	108-10-1	4-Methyl-2-pentanone	7.6	J	0.00
MC07-21	MC07-SS-21	Soil (0-12)	08-Mar-07	TCL volatiles	108-10-1	4-Methyl-2-pentanone	2.4	J	0.00
MC07-62	MC07-SS-62	Soil (0-12)	09-Mar-07	TCL volatiles	108-10-1	4-Methyl-2-pentanone	13	R	0.00

APPENDIX - D
TABLE - D3
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - SEMIVOLATILE ORGANIC COMPOUNDS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result ug/Kg	Q	RBC ug/Kg
MC07-100	MC07-SB-100-17.5	Soil (> 12)	12-Mar-07	TCL Semivolatiles	56-55-3	Benzo(a)anthracene	4600		3920
MC07-100	MC07-SB-100-17.5	Soil (> 12)	12-Mar-07	TCL Semivolatiles	205-99-2	Benzo(b)fluoranthene	4300		3920
MC07-100	MC07-SB-100-17.5	Soil (> 12)	12-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	4400		392
MC07-100	MC07-SB-100-17.5	Soil (> 12)	12-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	1400		392
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CSVOL	53-70-3	Dibenzo(a,h)anthracene	46000		392
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL semivolatiles	53-70-3	Dibenzo(a,h)anthracene	46000		392
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL semivolatiles	193-39-5	Indeno(1,2,3-cd)pyrene	21000	J	3920
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	170000		392
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL semivolatiles	207-08-9	Benzo(k)fluoranthene	44000		39200
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL semivolatiles	205-99-2	Benzo(b)fluoranthene	77000		3920
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	TCL semivolatiles	56-55-3	Benzo(a)anthracene	210000		3920
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CSVOL	56-55-3	Benzo(a)anthracene	210000		3920
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CSVOL	193-39-5	Indeno(1,2,3-cd)pyrene	21000	J	3920
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	170000		392
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CSVOL	207-08-9	Benzo(k)fluoranthene	44000		39200
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CSVOL	205-99-2	Benzo(b)fluoranthene	77000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	100000		392
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CSVOL	53-70-3	Dibenzo(a,h)anthracene	30000		392
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CSVOL	218-01-9	Chrysene	490000	J	392000
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CSVOL	193-39-5	Indeno(1,2,3-cd)pyrene	18000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CSVOL	56-55-3	Benzo(a)anthracene	150000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	100000		392
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	205-99-2	Benzo(b)fluoranthene	38000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	53-70-3	Dibenzo(a,h)anthracene	30000		392
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	193-39-5	Indeno(1,2,3-cd)pyrene	18000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CSVOL	205-99-2	Benzo(b)fluoranthene	38000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	56-55-3	Benzo(a)anthracene	150000		3920
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	218-01-9	Chrysene	490000	J	392000
MC07-115	MC07-SB-115-13	Soil (> 12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	2700		392
MC07-125	MC07-SB-125-8.5	Soil (> 12)	09-Sep-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	470		392
MC07-125	MC07-SB-125-8.5	Soil (> 12)	09-Sep-07	CSVOL	50-32-8	Benzo(a)pyrene	470		392
MC07-129	MC07-SB-129-05	Soil (> 12)	08-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	450	J	392
MC07-129	MC07-SB-129-05	Soil (> 12)	08-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	450	J	392

APPENDIX - D
TABLE - D3
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - SEMIVOLATILE ORGANIC COMPOUNDS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result ug/Kg	Q	RBC ug/Kg
MC07-56	MC07-SB-56-4.5	Soil (> 12)	06-Mar-07	TCL semivolatiles	53-70-3	Dibenzo(a,h)anthracene	6100	J	392
MC07-56	MC07-SB-56-4.5	Soil (> 12)	06-Mar-07	TCL semivolatiles	205-99-2	Benzo(b)fluoranthene	19000	J	3920
MC07-56	MC07-SB-56-4.5	Soil (> 12)	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	15000	J	392
MC07-56	MC07-SB-56-4.5	Soil (> 12)	06-Mar-07	TCL semivolatiles	56-55-3	Benzo(a)anthracene	27000		3920
MC07-72	MC07-SB-72-4.0	Soil (> 12)	09-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	440	J	392
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	420	J	392
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	420	J	392
MC07-C1	MC07-SB-C1-13	Soil (> 12)	12-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	650	J	392
MC07-C1	MC07-SB-C1-13	Soil (> 12)	12-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	1800		392
MC07-C2	MC07-SB-C2B-14	Soil (> 12)	13-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	780	J	392
MC07-C2	MC07-SB-C2B-14	Soil (> 12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	1500		392
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	TCL Semivolatiles	205-99-2	Benzo(b)fluoranthene	6900		3920
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	1700	J	392
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	5700		392
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	TCL Semivolatiles	56-55-3	Benzo(a)anthracene	6000		3920
MC07-C3	MC07-SB-C3-8.0	Soil (> 12)	13-Mar-07	TCL Semivolatiles	193-39-5	Indeno(1,2,3-cd)pyrene	5400		3920
MC07-C4	MC07-SB-C4-10	Soil (> 12)	13-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	4100		392
MC07-C4	MC07-SB-C4-10	Soil (> 12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	13000		392
MC07-C4	MC07-SB-C4-10	Soil (> 12)	13-Mar-07	TCL Semivolatiles	205-99-2	Benzo(b)fluoranthene	16000		3920
MC07-C4	MC07-SB-C4-10	Soil (> 12)	13-Mar-07	TCL Semivolatiles	193-39-5	Indeno(1,2,3-cd)pyrene	9600		3920
MC07-C4	MC07-SB-C4-10	Soil (> 12)	13-Mar-07	TCL Semivolatiles	56-55-3	Benzo(a)anthracene	13000		3920
MC07-C5	MC07-SB-C5-6.0	Soil (> 12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	1400		392
MC07-SW/SD-01	MC07-SD-01	Sediment	06-Mar-07	TCL semivolatiles	53-70-3	Dibenzo(a,h)anthracene	740	J	392
MC07-SW/SD-01	MC07-SD-01	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	3700		392
MC07-SW/SD-01	MC07-SD-01D	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	1700	J	392
MC07-SW/SD-02	MC07-SD-02	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	1000	J	392
MC07-SW/SD-03	MC07-SD-03	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	1000	J	392
MC07-SW/SD-05	MC07-SD-05	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	1400		392
MC07-SW/SD-09	MC07-SD-09	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	870	J	392
MC07-SW/SD-09	MC07-SD-09	Sediment	06-Mar-07	TCL semivolatiles	53-70-3	Dibenzo(a,h)anthracene	490	UJ	392
MC07-SW/SD-10	MC07-SD-10	Sediment	06-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	460		392
MC07-100	MC07-SS-100	Soil (0-12)	07-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	600		392
MC07-107	MC07-SS-107	Soil (0-12)	09-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	550		392

APPENDIX - D
TABLE - D3
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - SEMIVOLATILE ORGANIC COMPOUNDS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result ug/Kg	Q	RBC ug/Kg
MC07-107	MC07-SS-107	Soil (0-12)	09-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	550		392
MC07-110	MC07-SS-110	Soil (0-12)	07-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	550	J	392
MC07-115	MC07-SS-115	Soil (0-12)	12-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	400	J	392
MC07-129	MC07-SS-129	Soil (0-12)	07-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	530		392
MC07-133	MC07-SS-133	Soil (0-12)	07-Mar-07	CSVOL	53-70-3	Dibenzo(a,h)anthracene	480	J	392
MC07-133	MC07-SS-133	Soil (0-12)	07-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	780	J	392
MC07-21	MC07-SS-21	Soil (0-12)	08-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	500	J	392
MC07-21	MC07-SS-21	Soil (0-12)	08-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	500	J	392
MC07-62	MC07-SS-62	Soil (0-12)	09-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	920		392
MC07-72	MC07-SS-72	Soil (0-12)	07-Mar-07	CSVOL	56-55-3	Benzo(a)anthracene	4100		3920
MC07-72	MC07-SS-72	Soil (0-12)	07-Mar-07	CSVOL	53-70-3	Dibenzo(a,h)anthracene	640	J	392
MC07-72	MC07-SS-72	Soil (0-12)	07-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	3300		392
MC07-75	MC07-SS-75	Soil (0-12)	07-Mar-07	CSVOL	50-32-8	Benzo(a)pyrene	1700		392
MC07-C1	MC07-SS-C1	Soil (0-12)	12-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	1200		392
MC07-C2	MC07-SS-C2	Soil (0-12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	640	J	392
MC07-C3	MC07-SS-C3	Soil (0-12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	440	J	392
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	1400		392
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	630	J	392
MC07-C5	MC07-SS-C5	Soil (0-12)	13-Mar-07	TCL Semivolatiles	53-70-3	Dibenzo(a,h)anthracene	450	J	392
MC07-C5	MC07-SS-C5	Soil (0-12)	13-Mar-07	TCL Semivolatiles	50-32-8	Benzo(a)pyrene	2000		392

APPENDIX - D
TABLE - D4
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - PESTICIDES PCBs
Metro Container Site, Trainer, Pennsylvania.

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result ug/Kg	Q	RBC ug/Kg
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	Pesticides	60-57-1	Dieldrin	620	J	178.85
MC07-107	MC07-SB-107-7.5	Soil (> 12)	09-Mar-07	CPEST	60-57-1	Dieldrin	620	J	178.85
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	CPEST	60-57-1	Dieldrin	340	J	178.85
MC07-109	MC07-SB-109-6.0	Soil (> 12)	08-Mar-07	Pesticides	60-57-1	Dieldrin	340	J	178.85
MC07-62	MC07-SB-62-5.5	Soil (> 12)	09-Mar-07	CPEST	60-57-1	Dieldrin	610	J	178.85
MC07-72	MC07-SB-72-4.0	Soil (> 12)	09-Mar-07	CPEST	60-57-1	Dieldrin	480		178.85
MC07-72	MC07-SB-72-4.0	Soil (> 12)	09-Mar-07	CARO	11097-69-1	Aroclor-1254	28000		1430.8
MC07-72	MC07-SB-72-4.0	Soil (> 12)	09-Mar-07	CARO	11096-82-5	Aroclor-1260	28000		1430.8
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	CPEST	60-57-1	Dieldrin	1200	J	178.85
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	26000		1430.8
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	37000		1430.8
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	Pesticides	60-57-1	Dieldrin	1200	J	178.85
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	CARO	11097-69-1	Aroclor-1254	26000		1430.8
MC07-75	MC07-SB-75-4.0	Soil (> 12)	08-Mar-07	CARO	11096-82-5	Aroclor-1260	37000		1430.8
MC07-C5	MC07-SB-C5-6.0	Soil (> 12)	13-Mar-07	Pesticides	60-57-1	Dieldrin	300	J	178.85
MC07-C5	MC07-SB-C5-6.0	Soil (> 12)	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	9200		1430.8
MC07-C5	MC07-SB-C5-6.0	Soil (> 12)	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	5000		1430.8
MC07-	MC07-SD-09	Sediment	06-Mar-07	PCB aroclors	12672-29-6	Aroclor-1248	6900	J	1430.8
MC07-	MC07-SD-09	Sediment	06-Mar-07	Pesticides	60-57-1	Dieldrin	330	J	178.85
MC07-	MC07-SD-09	Sediment	06-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	9400		1430.8
MC07-	MC07-SD-09	Sediment	06-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	9500		1430.8
MC07-	MC07-SD-10	Sediment	06-Mar-07	PCB aroclors	12672-29-6	Aroclor-1248	2000		1430.8
MC07-107	MC07-SS-107	Soil (0-12)	09-Mar-07	CARO	11096-82-5	Aroclor-1260	1800		1430.8
MC07-107	MC07-SS-107	Soil (0-12)	09-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	1800		1430.8
MC07-109	MC07-SS-109	Soil (0-12)	08-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	2000		1430.8
MC07-109	MC07-SS-109	Soil (0-12)	08-Mar-07	CARO	11096-82-5	Aroclor-1260	2000		1430.8
MC07-110	MC07-SS-110	Soil (0-12)	07-Mar-07	CPEST	60-57-1	Dieldrin	410	J	178.85
MC07-110	MC07-SS-110	Soil (0-12)	07-Mar-07	CARO	11097-69-1	Aroclor-1254	14000		1430.8
MC07-110	MC07-SS-110	Soil (0-12)	07-Mar-07	CARO	11096-82-5	Aroclor-1260	22000		1430.8
MC07-114	MC07-SS-114	Soil (0-12)	12-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	5300		1430.8
MC07-114	MC07-SS-114	Soil (0-12)	12-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	8600		1430.8
MC07-114	MC07-SS-114	Soil (0-12)	12-Mar-07	Pesticides	60-57-1	Dieldrin	180	J	178.85
MC07-115	MC07-SS-115	Soil (0-12)	12-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	30000		1430.8
MC07-115	MC07-SS-115	Soil (0-12)	12-Mar-07	Pesticides	60-57-1	Dieldrin	630	J	178.85
MC07-115	MC07-SS-115	Soil (0-12)	12-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	13000		1430.8
MC07-129	MC07-SS-129	Soil (0-12)	07-Mar-07	CARO	11097-69-1	Aroclor-1254	1500		1430.8
MC07-38	MC07-SS-38	Soil (0-12)	08-Mar-07	PCB aroclors	12672-29-6	Aroclor-1248	3100	J	1430.8
MC07-62	MC07-SS-62	Soil (0-12)	09-Mar-07	CARO	12672-29-6	Aroclor-1248	15000	J	1430.8
MC07-62	MC07-SS-62	Soil (0-12)	09-Mar-07	CARO	11096-82-5	Aroclor-1260	2500	J	1430.8
MC07-72	MC07-SS-72	Soil (0-12)	07-Mar-07	CARO	11096-82-5	Aroclor-1260	3500		1430.8
MC07-72	MC07-SS-72	Soil (0-12)	07-Mar-07	CARO	11097-69-1	Aroclor-1254	3700		1430.8
MC07-75	MC07-SS-75	Soil (0-12)	07-Mar-07	CARO	11096-82-5	Aroclor-1260	1500		1430.8
MC07-C1	MC07-SS-C1	Soil (0-12)	12-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	13000		1430.8
MC07-C1	MC07-SS-C1	Soil (0-12)	12-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	7000		1430.8
MC07-C1	MC07-SS-C1	Soil (0-12)	12-Mar-07	Pesticides	60-57-1	Dieldrin	460	J	178.85
MC07-C2	MC07-SS-C2	Soil (0-12)	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	23000		1430.8

APPENDIX - D
TABLE - D4
SOIL AND SEDIMENT RESULTS EXCEEDING RBC - PESTICIDES PCBs
Metro Container Site, Trainer, Pennsylvania.

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result ug/Kg	Q	RBC ug/Kg
MC07-C2	MC07-SS-C2	Soil (0-12)	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	17000		1430.8
MC07-C2	MC07-SS-C2	Soil (0-12)	13-Mar-07	Pesticides	60-57-1	Dieldrin	650	J	178.85
MC07-C3	MC07-SS-C3	Soil (0-12)	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	62000		1430.8
MC07-C3	MC07-SS-C3	Soil (0-12)	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	39000		1430.8
MC07-C3	MC07-SS-C3	Soil (0-12)	13-Mar-07	Pesticides	60-57-1	Dieldrin	670	J	178.85
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	18000		1430.8
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	36000		1430.8
MC07-C4	MC07-SS-C4	Soil (0-12)	13-Mar-07	Pesticides	60-57-1	Dieldrin	770	J	178.85
MC07-C5	MC07-SS-C5	Soil (0-12)	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	5800		1430.8
MC07-C5	MC07-SS-C5	Soil (0-12)	13-Mar-07	Pesticides	60-57-1	Dieldrin	310	J	178.85
MC07-C5	MC07-SS-C5	Soil (0-12)	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	13000		1430.8

APPENDIX E
GROUNDWATER AND SURFACE WATER SAMPLE RESULTS
(5 Pages)

GENERAL NOTES FOR SAMPLE-RESULT TABLES
Metro Container Site, Trainer, Pennsylvania

GW	= Ground Water	RBC	= Risk-based Concentration
MC	= Metro Container Site	SW	= Surface Water
µg/L	= microgram per liter	SD	= Sediment
µg/K	= microgram per kilogram	SB	= Subsurface Soil Sample
PCB	= Polychlorinated biphenyl	SS	= Surface Soil Sample
Q	= Qualifier	TW	= Tap Water

APPENDIX - E
TABLE - E1
GROUNDWATER AND SURFACE WATER RESULTS EXCEEDING RBC - METALS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result ug/L	Q	Tap Water RBC (ug/L)	GW/SW RBC (ug/L)
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	Total metals	7440-36-0	ANTIMONY	251		14.60	146.00
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	Total metals	7440-38-2	ARSENIC	282		0.04	0.45
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	Total metals	7440-62-2	VANADIUM	899		36.50	365.00
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Total metals	7440-62-2	VANADIUM	887		36.50	365.00
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Total metals	7440-38-2	ARSENIC	291		0.04	0.45
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Total metals	7440-36-0	ANTIMONY	282		14.60	146.00
MC07-119	MC07-GW-119	Ground Water	13-Mar-07	Total metals	7440-38-2	ARSENIC	145		0.04	0.45
MC07-119	MC07-GW-119	Ground Water	13-Mar-07	Dissolved metals	7440-38-2	ARSENIC	95.8		0.04	0.45
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	Total metals	7440-62-2	VANADIUM	446		36.50	365.00
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	Dissolved metals	7440-62-2	VANADIUM	436		36.50	365.00
MC07-48	MC07-GW-48	Ground Water	09-Mar-07	Dissolved metals	7440-38-2	ARSENIC	12.5		0.04	0.45
MC07-48	MC07-GW-48	Ground Water	09-Mar-07	Total Metals	7440-38-2	ARSENIC	13.3	L	0.04	0.45
MC07-50	MC07-GW-50	Ground Water	09-Mar-07	Total Metals	7440-38-2	ARSENIC	6.8	J	0.04	0.45
MC07-50	MC07-GW-50	Ground Water	09-Mar-07	Total Metals	7439-96-5	MANGANESE	17700		5110.00	51100.00
MC07-50	MC07-GW-50	Ground Water	09-Mar-07	Dissolved metals	7439-96-5	MANGANESE	17700		5110.00	51100.00
MC07-50	MC07-GW-50	Ground Water	09-Mar-07	Dissolved metals	7439-89-6	IRON	89100		25550.00	255500.00
MC07-50	MC07-GW-50	Ground Water	09-Mar-07	Dissolved metals	7440-38-2	ARSENIC	14.7		0.04	0.45
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Total Metals	7440-38-2	ARSENIC	119		0.04	0.45
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Total Metals	7440-36-0	ANTIMONY	166		14.60	146.00
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Total Metals	7440-62-2	VANADIUM	3150		36.50	365.00
MC07-72	MC07-GW-72	Ground Water	12-Mar-07	Total Metals	7440-38-2	ARSENIC	57.3		0.04	0.45
MC07-72	MC07-GW-72	Ground Water	12-Mar-07	Dissolved metals	7440-38-2	ARSENIC	52.7		0.04	0.45
MC07-SW/SD-01	MC07-SW-01D	Surface Water	06-Mar-07	Dissolved metals	7440-38-2	ARSENIC	5.6	J	0.04	0.45
MC07-SW/SD-02	MC07-SW-02	Surface Water	06-Mar-07	Total Metals	7440-38-2	ARSENIC	6.2	J	0.04	0.45

APPENDIX- E
TABLE - E2
GROUNDWATER AND SURFACE WATER RESULTS EXCEEDING RBC - VOLATILE ORGANIC COMPOUNDS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result (ug/L)	Q	Tap Water RBC (ug/L)	GW/SW RBC (ug/L)
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	TCL volatiles	79-01-6	Trichloroethene	410	L	0.03	0.264
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	TCL volatiles	79-01-6	Trichloroethene	320	L	0.03	0.264
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	TCL volatiles	75-09-2	Methylene chloride	25	B	4.10	41.024
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	TCL volatiles	127-18-4	Tetrachloroethene	340	L	0.10	1.035
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	TCL volatiles	71-43-2	Benzene	99	J	0.34	3.358
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	TCL volatiles	127-18-4	Tetrachloroethene	310	L	0.10	1.035
MC07-115	MC07-GW-115	Ground Water	13-Mar-07	TCL volatiles	74-83-9	Bromomethane	50		8.52	85.167
MC07-115	MC07-GW-115	Ground Water	13-Mar-07	TCL volatiles	79-01-6	Trichloroethene	13	J	0.03	0.264
MC07-115	MC07-GW-115	Ground Water	13-Mar-07	TCL volatiles	75-01-4	Vinyl chloride	71	D	0.02	0.150
MC07-115	MC07-GW-115	Ground Water	13-Mar-07	TCL volatiles	71-43-2	Benzene	120		0.34	3.358
MC07-115	MC07-GW-115	Ground Water	13-Mar-07	TCL volatiles	106-46-7	1,4-Dichlorobenzene	17	J	0.47	4.727
MC07-119	MC07-GW-119	Ground Water	13-Mar-07	TCL volatiles	75-15-0	Carbon disulfide	31000		1042.86	10428.571
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	TCL volatiles	71-43-2	Benzene	120	J	0.34	3.358
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	TCL volatiles	75-01-4	Vinyl chloride	38	J	0.02	0.150
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	TCL volatiles	71-43-2	Benzene	180		0.34	3.358
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	TCL volatiles	79-01-6	Trichloroethene	220		0.03	0.264
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	TCL volatiles	127-18-4	Tetrachloroethene	42	J	0.10	1.035
MC07-72	MC07-GW-72	Ground Water	12-Mar-07	TCL volatiles	79-01-6	Trichloroethene	0.98	J	0.03	0.264
MC07-72	MC07-GW-72	Ground Water	12-Mar-07	TCL volatiles	71-43-2	Benzene	2.9	B	0.34	3.358
MC07-72	MC07-GW-72	Ground Water	12-Mar-07	TCL volatiles	106-46-7	1,4-Dichlorobenzene	2.4	J	0.47	4.727
MC07-SWSD-02	MC07-SW-02	Surface Water	06-Mar-07	TCL volatiles	71-43-2	Benzene	52		0.34	3.358
Field QC	MC07-RB-01/02	Ground Water	14-Mar-07	TCL volatiles	67-66-3	Chloroform	4.5	J	0.15	1.546
MC07-SW/SD-03	MC07-SW-03	Surface Water	06-Mar-07	TCL volatiles	71-43-2	Benzene	71		0.34	3.358
MC07-107	MC07-GW-107	Ground Water	13-Mar-07	TCL volatiles	75-15-0	Carbon disulfide	200000		1042.86	10428.571
MC07-C3	MC07-GW-C3	Ground Water	14-Mar-07	TCL volatiles	75-15-0	Carbon disulfide	45000		1042.86	10428.571
MC07-C3	MC07-GW-C3	Ground Water	14-Mar-07	TCL volatiles	71-43-2	Benzene	15		0.34	3.358
MC07-C3	MC07-GW-C3	Ground Water	14-Mar-07	TCL volatiles	79-01-6	Trichloroethene	0.72	J	0.03	0.264
Field QC	MC07-TB-01/02	Ground Water	14-Mar-07	TCL volatiles	67-66-3	Chloroform	2	J	0.15	1.546
MC07-110	MC07-GW-110	Ground Water	14-Mar-07	TCL volatiles	71-43-2	Benzene	9.7		0.34	3.358
Field QC	MC07-FB-01/02	Ground Water	14-Mar-07	TCL volatiles	67-66-3	Chloroform	2.1	J	0.15	1.546

APPENDIX - E
TABLE - E3
GROUNDWATER AND SURFACE WATER RESULTS EXCEEDING RBC - SEMIVOLATILE ORGANIC COMPOUNDS
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result (ug/L)	Q	Tap Water RBC (ug/L)	GW/SW RBC (ug/L)
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	TCL semivolatiles	106-44-5	4-Methylphenol	12000		182.50	1,825.00
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	TCL semivolatiles	106-44-5	4-Methylphenol	13000		182.50	1,825.00
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	TCL semivolatiles	87-86-5	Pentachlorophenol	120	J	0.56	5.58
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	50-32-8	Benzo(a)pyrene	39		0.003	0.03
MC07-C3	MC07-GW-C3	Ground Water	14-Mar-07	TCL semivolatiles	87-86-5	Pentachlorophenol	10	J	0.56	5.58
MC07-107	MC07-GW-107	Ground Water	13-Mar-07	TCL semivolatiles	87-86-5	Pentachlorophenol	19	J	0.56	5.58
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	53-70-3	Dibenzo(a,h)anthracene	14	J	0.003	0.03
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	193-39-5	Indeno(1,2,3-cd)pyrene	10	J	0.03	0.30
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	207-08-9	Benzo(k)fluoranthene	12	J	0.30	3.00
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	205-99-2	Benzo(b)fluoranthene	30		0.03	0.30
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	218-01-9	Chrysene	76		3.00	30.00
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	56-55-3	Benzo(a)anthracene	47		0.03	0.30
MC07-125	MC07-GW-125	Ground Water	13-Mar-07	TCL semivolatiles	87-86-5	Pentachlorophenol	9.4	J	0.56	5.58

APPENDIX - E
TABLE - E4
GROUNDWATER AND SURFACE WATER RESULTS EXCEEDING RBC - PESTICIDES AND PCBs
Metro Container Site, Trainer, Pennsylvania

Location	Sub Location	Matrix	Sample Date	Analysis	Case No	Analyte	Result	Q	TW RBC	GW/SW RBC
							(ug/L)		(ug/L)	(ug/L)
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Pesticides	1024-57-3	Heptachlor epoxide	0.77	J	0.007	0.0736
MC07-50	MC07-GW-50	Ground Water	09-Mar-07	Pesticides	60-57-1	Dieldrin	0.05	J	0.004	0.0419
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	Pesticides	60-57-1	Dieldrin	0.63	L	0.004	0.0419
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	Pesticides	1024-57-3	Heptachlor epoxide	0.17	J	0.007	0.0736
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	Pesticides	309-00-2	Aldrin	0.13	J	0.004	0.0394
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Pesticides	60-57-1	Dieldrin	0.50	J	0.004	0.0419
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Pesticides	72-55-9	4,4'-DDE	4.60		0.197	1.9698
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Pesticides	60-57-1	Dieldrin	0.46	J	0.004	0.0419
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Pesticides	1024-57-3	Heptachlor epoxide	0.21	J	0.007	0.0736
MC07-62	MC07-GW-62	Ground Water	12-Mar-07	Pesticides	309-00-2	Aldrin	0.11	J	0.004	0.0394
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Pesticides	309-00-2	Aldrin	0.29	J	0.004	0.0394
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	Pesticides	319-84-6	alpha-BHC	0.15	J	0.011	0.1063
MC07-110	MC07-GW-110	Ground Water	14-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	0.53	J	0.033	0.3349
MC07-75	MC07-GW-75	Ground Water	14-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	1.10		0.033	0.3349
MC07-75	MC07-GW-75	Ground Water	14-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	0.98	J	0.033	0.3349
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	14.00		0.033	0.3349
MC07-114	MC07-GW-114	Ground Water	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	11.00		0.033	0.3349
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	PCB aroclors	11097-69-1	Aroclor-1254	7.80		0.033	0.3349
MC07-72	MC07-GW-72	Ground Water	12-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	0.40	J	0.033	0.3349
MC07-114	MC07-GW-114B	Ground Water	13-Mar-07	PCB aroclors	11096-82-5	Aroclor-1260	13.00	J	0.033	0.3349

APPENDIX F
POLYCHLORINATED BIPHENYL CONGENERS COMPARISON
(13 Pages)

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2-MoCB (#1)	10	956000		5070		1	10600		4980	
3-MoCB (#2)	10	211000		309		1	1380		1080	
4-MoCB (#3)	10	588000		1050		1	5910		5220	
2,2'-DiCB (#4)	10	1550000		7360	J	1	42700		12900	
2,3-DiCB (#5)	10	297000		1030	J	1	4820	J	3060	
2,3'-DiCB (#6)	10	789000		2010	J	1	12100		7100	
2,4-DiCB (#7)	10	176000		428	J	1	2560		2080	
2,4'-DiCB (#8)	10	3180000	J	7740	J	1	49500		26500	
2,5-DiCB (#9)	10	296000		820	J	1	5370		3460	
2,6-DiCB (#10)	10	61300		286	J	1	1960		850	
3,3'-DiCB (#11)	10	40700		136	B	1	1010		805	
3,4-DiCB (#12)	10	240000		404	J	1	3420		3140	
3,4'-DiCB (#13)	10	240000		404	J	1	3420		3140	
3,5-DiCB (#14)	10				UJ	1				
4,4'-DiCB (#15)	10	1310000		2470		1	33100		20800	
2,2',3-TrCB (#16)	10	1940000		7050	J	1	55800		32300	
2,2',4'-TrCB (#17)	10	1720000		5980	J	1	64900		37600	
2,2',5-TrCB (#18)	10	5110000	J	18900	J	1	181000		105000	
2,2',6-TrCB (#19)	10	559000		1930	J	1	33300		12700	
2,3,3'-TrCB (#20)	10	57000000	J	18200	J	1	182000		119000	
2,3,4-TrCB (#21)	10	4070000	J	10700	J	1	62100		50900	
2,3,4'-TrCB (#22)	10	2450000	J	6550	J	1	50000		36800	
2,3,5-TrCB (#23)	10	5370			UJ	1				
2,3,6-TrCB (#24)	10	111000		254	J	1	3050		1050	
2,3',4-TrCB (#25)	10	330000		1010	J	1	11400		6230	
2,3',5-TrCB (#26)	10	1000000		2850	J	1	28100		17600	
2,3',6-TrCB (#27)	10	306000		987	J	1	18100		7450	
2,4,4'-TrCB (#28)	10	5700000	J	18200	J	1	182000		119000	
2,4,5-TrCB (#29)	10	1000000		2850	J	1	28100		17600	
2,4,6-TrCB (#30)	10	5110000	J	18900	J	1	181000		105000	
2,4',5-TrCB (#31)	10	6360000	J	19400	J	1	158000		125000	
2,4',6-TrCB (#32)	10	1110000		4840	J	1	71800		36600	

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#12 & #13 coelute, #18 & #30 coelute, #26 & #29 coelute, #20 & #28 coelute, # 21& #33 coelute

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2,3',4'-TrCB (#33)	10	4070000	J	10700	J	1	62100		50900	
2,3',5- TrCB (#34)	10	19000		123	J	1	399			
3,3',4'-TrCB (#35)	10	59400			UJ	1	1140	J		
3,3',5'-TrCB (#36)	10				UJ	1				
3,4,4'-TrCB (#37)	10	1670000		3400		1	39200		27700	
3,4,5'-TrCB (#38)	10				UJ	1				
3,4',5'-TrCB (#39)	10	52900		187	J	1			1540	
2,2',3,3'-TeCB (#40)	10	4380000	J	11200		1	286000		143000	
2,2',3,4-TeCB (#41)	10	984000		2970		1	47100		39500	
2,2',3,4'-TeCB (#42)	10	2200000	J	6780		1	181000		85900	
2,2',3,5-TeCB (#43)	10	502000		1540		1	37500		15100	
2,2',3,5'-TeCB (#44)	10	8310000	J	30300		1	742000	J	368000	
2,2',3,6-TeCB (#45)	10	1740000		5580		1	179000		81500	
2,2',3,6'-TeCB (#46)	10	569000		1790		1	50700		24700	
2,2',4,4'-TeCB (#47)	10	8310000	J	30300		1	742000	J	368000	
2,2',4,5-TeCB (#48)	10	2190000	J	6380		1	93500		63800	
2,2',4,5'-TeCB (#49)	10	4490000	J	15900		1	394000		192000	
2,2',4,6-TeCB (#50)	10	1240000		4090		1	143000		69100	
2,2',4,6'-TeCB (#51)	10	1740000		5580		1	179000		81500	
2,2',5,5'-TeCB (#52)	10	11700000	J	38900		1	1040000	J	417000	
2,2',5,6'-TeCB (#53)	10	1240000		4090		1	143000		69100	
2,2',6,6'-TeCB (#54)	10	23300		84.3	J	1	2270		1050	
2,3,3',4-TeCB (#55)	10	156000				1			5930	
2,3,3',4'-TeCB (#56)	10	4340000	J	10600		1	164000		117000	
2,3,3',5-TeCB (#57)	10					1				
2,3,3',5'-TeCB (#58)	10					1			777	
2,3,3',6-TeCB (#59)	10	753000		2230		1	66700		31300	
2,3,4,4'-TeCB (#60)	10	2630000	J	3870		1	61700		57500	
2,3,4,5-TeCB (#61)	10	15500000	J	43100		1	625000	J	425000	
2,3,4,6-TeCB (#62)	10	753000		2230		1	66700		31300	
2,3,4',5-TeCB (#63)	10	380000		1070		1	11500		10000	
2,3,4',6-TeCB (#64)	10	3920000	J	11900		1	237000		141000	

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#40 & #71 coelute, #44,#47,#65 coelute, #45 & #51 coelute, #50 & #53 coelute, #49 & #69 coelute,

#59,#62,#75 coelute, #61,#70, #74, #76 coelute

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2,3,5,6-TeCB (#65)	10	8310000	J	30300		1	742000	J	368000	
2,3',4,4'-TeCB (#66)	10	7530000	J	20800		1	427000		267000	
2,3',4,5-TeCB (#67)	10	211000		491		1	7960		5400	
2,3',4,5'-TeCB (#68)	10	15200				1	1700		672	J
2,3',4,6-TeCB (#69)	10	4490000	J	15900		1	394000		192000	
2,3',4',5-TeCB (#70)	10	15500000	J	43100		1	625000		425000	
2,3',4',6-TeCB (#71)	10	4380000	J	11200		1	286000		143000	
2,3',5,5'-TeCB (#72)	10	29200				1	3260			
2,3',5',6-TeCB (#73)	10					1			3170	
2,4,4',5-TeCB (#74)	10	15500000	J	43100		1	625000		425000	
2,4,4',6-TeCB (#75)	10	753000		2230		1	66700		31300	
2,3',4',5'-TeCB (#76)	10	15500000	J	43100		1	625000		425000	
3,3',4,4'-TeCB (#77)	10	551000		1500		1	27200		18200	
3,3',4,5-TeCB (#78)	10					1				
3,3',4,5'-TeCB (#79)	10	235000				1	27200			
3,3',5,5'-TeCB (#80)	10					1				
3,4,4',5-TeCB (#81)	10					1				
2,2',3,3',4-PeCB (#82)	10	1240000		5100		1	161000		55000	
2,2',3,3',5-PeCB (#83)	10	513000		1910		1	37600		14600	
2,2',3,3',6-PeCB (#84)	10	2350000	J	10500		1	311000		89000	
2,2',3,4,4'-PeCB (#85)	10	1150000		5790		1	155000		50500	
2,2',3,4,5-PeCB (#86)	10	5740000	J	27300		1	776000	J	211000	
2,2',3,4,5'-PeCB (#87)	10	5740000	J	27300		1	776000	J	211000	
2,2',3,4,6-PeCB (#88)	10	1150000		4810		1	178000		56800	
2,2',3,4,6'-PeCB (#89)	10	186000		617		1	23300		9990	
2,2',3,4',5-PeCB (#90)	10	7630000	J	34700		1	1010000	J	223000	
2,2',3,4',6-PeCB (#91)	10	1150000		4810		1	178000		56800	
2,2',3,5,5'-PeCB (#92)	10	1030000		6290		1	186000		42800	
2,2',3,5,6-PeCB (#93)	10	105000		1030		1	26500		7460	
2,2',3,5,6'-PeCB (#94)	10	54900		254		1	8020		3220	
2,2',3,5',6-PeCB (#95)	10	6680000	J	30400		1	891000	J	213000	
2,2',3,6,6'-PeCB (#96)	10	89700		387		1	13400		5510	

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#85,#116,#117 coelute, #86,#87,#97,#108,#119, #125 coelute, #88 & #91 coelute, #90,#101,#113 coelute, #93 & #100 coelute, #98 & #102 coelute#107,#124 coelute, #110,#115 coelute

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2,2',3,4',5'-PeCB (#97)	10	5740000	J	27300		1	776000	J	211000	
2,2',3,4',6'-PeCB (#98)	10	330000		1340		1	49700		17700	
2,2',4,4',5'-PeCB (#99)	10	3150000	J	13900		1	445000		125000	
2,2',4,4',6'-PeCB (#100)	10	105000		6290		1	26500		7460	
2,2',4,5,5'-PeCB (#101)	10	7630000	J	34700		1	1010000	J	223000	
2,2',4,5,6'-PeCB (#102)	10	330000		1340		1	49700		17700	
2,2',4,5',6'-PeCB (#103)	10	42800		210		1	6400		2320	
2,2',4,6,6'-PeCB (#104)	10					1	265	J		
2,3,3',4,4'-PeCB (#105)	10	2960000	J	12000		1	222000		96700	
2,3,3',4,5'-PeCB (#106)	10					1	11700		1960	J
2,3,3',4',5'-PeCB (#107)	10	303000		1190		1			9100	
2,3,3',4,5'-PeCB (#108)	10	5740000	J	27300		1	776000	J	211000	
2,3,3',4,6'-PeCB (#109)	10	459000		2030		1	50300		17300	
2,3,3',4',6'-PeCB (#110)	10	8180000	J	35500		1	1120000	J	281000	
2,3,3',5,5'-PeCB (#111)	10					1				
2,3,3',5,6'-PeCB (#112)	10					1	9170			
2,3,3',5',6'-PeCB (#113)	10	7630000	J	34700		1	1010000	J	223000	
2,3,4,4',5'-PeCB (#114)	10	172000		728		1	6350		4290	
2,3,4,4',6'-PeCB (#115)	10	8180000	J	35500		1	1120000	J	281000	
2,3,4,5,6'-PeCB (#116)	10	1150000		5790		1	155000		50500	
2,3,4',5,6'-PeCB (#117)	10	1150000		5790		1	155000		50500	
2,3',4,4',5'-PeCB (#118)	10	5540000	J	26500		1	554000	J	156000	
2,3',4,4',6'-PeCB (#119)	10	5740000	J	27300		1	776000	J	211000	
2,3',4,5,5'-PeCB (#120)	10	3380				1				
2,3',4,5',6'-PeCB (#121)	10					1				
2,3,3',4',5'-PeCB (#122)	10	101000		371		1	11400		3290	
2,3',4,4',5'-PeCB (#123)	10	84900		307		1	9460			
2,3',4',5,5'-PeCB (#124)	10	303000		1190		1			9100	
2,3',4',5',6'-PeCB (#125)	10	5740000	J	27300		1	776000	J	211000	
3,3',4,4',5'-PeCB (#126)	10					1				
3,3',4,5,5'-PeCB (#127)	10					1				
2,2',3,3',4,4'-HxCB (#128)	10	1080000		5030		1	161000		26700	

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#128,#166 coelute, #129,#138,#163 coelute, #135 & #151 coelute, #139 & #140 coelute, #147& #149 coelute, #153 & #168 coelute, #156, #157 coelute

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2,2',3,3',4,5-HxCB (#129)	10	8840000	J	37000		1	1280000	J	173000	
2,2',3,3',4,5'-HxCB (#130)	10	420000		2110		1	66300		10500	
2,2',3,3',4,6-HxCB (#131)	10	96500		517		1	15200			
2,2',3,3',4,6'-HxCB (#132)	10	2750000	J	12400		1	395000		58500	
2,2',3,3',5,5'-HxCB (#133)	10	92800		488		1	15300			
2,2',3,3',5,6-HxCB (#134)	10	438000		1740		1			5760	J
2,2',3,3',5,6'-HxCB (#135)	10	4280000	J	19000		1	666000	J	72700	
2,2',3,3',6,6'-HxCB (#136)	10	1450000		5740		1	218000		26700	
2,2',3,4,4',5-HxCB (#137)	10	490000		2660		1	82400		14700	
2,2',3,4,4',5'-HxCB (#138)	10	8840000	J	37000		1	1280000	J	173000	
2,2',3,4,4',6-HxCB (#139)	10	112000		649		1	16600		2360	
2,2',3,4,4',6'-HxCB (#140)	10	112000		649		1	16600		2360	
2,2',3,4,5,5'-HxCB (#141)	10	1590000		6810		1	183000		19900	J
2,2',3,4,5,6-HxCB (#142)	10					1				
2,2',3,4,5,6'-HxCB (#143)	10					1	42400			
2,2',3,4,5',6-HxCB (#144)	10	576000				1	88400		10200	
2,2',3,4,6,6'-HxCB (#145)	10					1				
2,2',3,4',5,5'-HxCB (#146)	10	1020000		4860		1	167000		21500	
2,2',3,4',5,6-HxCB (#147)	10	9840000	J	38500		1	1320000	J	157000	
2,2',3,4',5,6'-HxCB (#148)	10					1	594			
2,2',3,4',5',6-HxCB (#149)	10	9840000	J	38500		1	1320000	J	157000	
2,2',3,4',6,6'-HxCB (#150)	10	4440				1	965	J		
2,2',3,5,5',6-HxCB (#151)	10	4280000	J	19000		1	666000	J	72700	
2,2',3,5,6,6'-HxCB (#152)	10	6420				1	1050			
2,2',4,4',5,5'-HxCB (#153)	10	9840000	J	38900		1	1460000	J	165000	
2,2',4,4',5,6'-HxCB (#154)	10	26100		145		1				
2,2',4,4',6,6'-HxCB (#155)	10					1				
2,3,3',4,4',5-HxCB (#156)	10	741000		3750		1	88900		16000	
2,3,3',4,4',5'-HxCB (#157)	10	741000		3750		1	88900		16000	
2,3,3',4,4',6-HxCB (#158)	10	837000		3580		1	119000		17000	
2,3,3',4,5,5'-HxCB (#159)	10	209000				1	25100		2690	
2,3,3',4,5,6-HxCB (#160)	10					1				

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#128,#166 coelute, #129,#138,#163 coelute, #135 & #151 coelute, #139 & #140 coelute, #147& #149 coelute, #153 & #168 coelute, #156, #157 coelute

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2,3,3',4,5',6-HxCB (#161)	10					1			19000	
2,3,3',4',5,5'-HxCB (#162)	10	135000		541		1	5830			
2,3,3',4',5,6-HxCB (#163)	10	8840000	J	37000		1	1280000	J	173000	
2,3,3',4',5',6-HxCB (#164)	10	385000		1480		1	54200		6320	
2,3,3',5,5',6-HxCB (#165)	10					1				
2,3,4,4',5,6-HxCB (#166)	10	1080000		5030		1	161000		26700	
2,3',4,4',5,5'-HxCB (#167)	10	204000		1070		1	38000		5330	
2,3',4,4',5',6-HxCB (#168)	10	9840000	J	38900		1	1460000	J	165000	
3,3',4,4',5,5'-HxCB (#169)	10			169		1				
2,2',3,3',4,4',5-HpCB (#170)	10	3140000	J	10600		1	528000	J	55800	
2,2',3,3',4,4',6-HpCB (#171)	10	1050000		3710		1	161000		18200	
2,2',3,3',4,5,5'-HpCB (#172)	10	632000				1	118000		11400	
2,2,3,3',4,5,6-HpCB (#173)	10	1050000		3710		1	161000		18200	
2,2',3,3',4,5,6'-HpCB (#174)	10	5010000	J	19800		1	726000	J	48400	
2,2',3,3',4,5',6-HpCB (#175)	10	194000				1	29400		1810	
2,2',3,3',4,6,6'-HpCB (#176)	10	751000		2670		1	112000		12300	
2,2',3,3',4,5',6'-HpCB (#177)	10	2790000	J	9640		1	438000		45900	
2,2',3,3',5,5',6-HpCB (#178)	10	1150000		4180		1	186000		23800	
2,2',3,3',5,6,6'-HpCB (#179)	10	3020000	J	10900		1	442000			
2,2',3,4,4',5,5'-HpCB (#180)	10	10900000	J	37100		1	1800000	J	212000	
2,2',3,4,4',5,6-HpCB (#181)	10					1				
2,2',3,4,4',5,6'-HpCB (#182)	10					1				
2,2',3,4,4',5',6-HpCB (#183)	10	4470000	J	13900		1	792000	J	116000	
2,2',3,4,4',6,6'-HpCB (#184)	10					1				
2,2',3,4,5,5',6-HpCB (#185)	10	4470000	J	13900		1	792000	J	116000	
2,2',3,4,5,6,6'-HpCB (#186)	10					1				
2,2',3,4',5,5',6-HpCB (#187)	10	7480000	J	25500		1	1150000	J	175000	
2,2',3,4',5,6,6'-HpCB (#188)	10					1				
2,3,3',4,4',5,5'-HpCB (#189)	10	56700		256		1	12200		981	
2,3,3',4,4',5,6-HpCB (#190)	10	797000		2730		1	137000		16500	
2,3,3',4,4',5',6-HpCB (#191)	10			355		1	17300			
2,3,3',4,5,5',6-HpCB (#192)	10					1				
2,3,3',4',5,5',6-HpCB (#193)	10	10900000	J	37100		1	1800000	J	212000	

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#171 & #173 coelute, # 180 & #193 coelute, #183 & #185 coelute, #197 & #200 coelute, #198 & # 199 coelute

APPENDIX F

TABLE F-1

Polychlorinated Biphenyl Congeners Comparison Metro Conatier Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A COMPARED BY INDIVIDUAL BIPHENYL

Case #: R32688

SDG : C01F5

Site :

Metro Container

Lab. :

SGS

Sample Number :		C01F5		C01F6			C01F7		C01F8	
Sampling Location :		MC07-GW-114		MC07-GW-C3			MC07-SD-09		MC07-SD-10	
Matrix :		Aqueous		Aqueous			Soil		Soil	
Units :		pg/L		pg/L			pg/g		pg/g	
Date Sampled :		3/13/2007		3/14/2007			3/06/2007		3/06/2007	
Time Sampled :		16:30		10:45			14:10		14:20	
Dilution Factor :		50		1.17			47.6		48.1	
PCB Chlorination Level (IUPAC#)	QL	Result	Flag	Result	Flag	QL	Result	Flag	Result	Flag
2,2',3,3',4,4',5,5'-OcCB (#194)	10	3000000	J	12900		1	544000	J	82800	
2,2',3,3',4,4',5,6'-OcCB (#195)	10	1190000		4800		1	216000		20800	
2,2',3,3',4,4',5,6'-OcCB (#196)	10	2080000	J	8790		1	377000		70800	
2,2',3,3',4,4',6,6'-OcCB (#197)	10	692000		3270		1	111000		16600	
2,2',3,3',4,5,5',6'-OcCB (#198)	10	4070000	J	19300		1	726000	J	139000	
2,2',3,3',4,5,5',6'-OcCB (#199)	10	4070000	J	19300		1	726000	J	139000	
2,2',3,3',4,5,6,6'-OcCB (#200)	10	692000		3270		1	111000		16600	
2,2',3,3',4,5',6,6'-OcCB (#201)	10	569000		2680		1	94000		17900	
2,2',3,3',5,5',6,6'-OcCB (#202)	10	746000		3370		1	133000		36100	
2,2',3,4,4',5,5',6'-OcCB (#203)	10	1700000		10100		1	348000		64600	
2,2',3,4,4',5,6,6'-OcCB (#204)	10					1				
2,3,3',4,4',5,5',6'-OcCB (#205)	10	117000		545		1	21200		2430	
2,2',3,3',4,4',5,5',6'-NoCB (#206)	10	742000		8080		1	173000		76800	
2,2',3,3',4,4',5,6,6'-NoCB (#207)	10	144000		971		1	28800		5080	
2,2',3,3',4,5,5',6,6'-NoCB (#208)	10	168000		1820		1	39500		8850	
2,2',3,3',4,4',5,5',6,6'-DeCB (#209)	10	48200		1290	J	1	19700		16600	

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#197 & #200 coelute, #198 & # 199 coelute

APPENDIX F
TABLE F-2
Polychlorinated Biphenyl Congeners Comparison
Metro Container Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A CONGENERS COMPARED BY ASCENDING CONCENTRATION

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number : Sampling Location : PCB Chlorination Level (IUPAC#) Units : Matrix : Date Sampled : Time Sampled : Dilution Factor :	QL	C01F5 MC07-GW-114 Result pg/L Aqueous 3/13/2007 16:30 50	Flag	C01F6 MC07-GW-C3 Result pg/L Aqueous 3/14/2007 10:45 1.17	Flag	QL	C01F7 MC07-SD-09 Result pg/g Soil 3/06/2007 14:10 47.6	Flag	C01F8 MC07-SD-10 Result pg/g Soil 3/06/2007 14:20 48.1	Flag
2,3,3'-TrCB (#20)	10	57000000	J	18200	J	1	182000		119000	
2,3,4,5-TeCB (#61)	10	15500000	J	43100		1	625000	J	425000	
2,3',4',5'-TeCB (#70)	10	15500000	J	43100		1	625000		425000	
2,3',4',5'-TeCB (#76)	10	15500000	J	43100		1	625000		425000	
2,4,4',5-TeCB (#74)	10	15500000	J	43100		1	625000		425000	
2,2',5,5'-TeCB (#52)	10	11700000	J	38900		1	1040000	J	417000	
2,2',3,4,4',5,5'-HpCB (#180)	10	10900000	J	37100		1	1800000	J	212000	
2,3,3',4',5,5',6-HpCB (#193)	10	10900000	J	37100		1	1800000	J	212000	
2,2',3,4',5,6-HxCB (#147)	10	9840000	J	38500		1	1320000	J	157000	
2,2',3,4',5',6-HxCB (#149)	10	9840000	J	38500		1	1320000	J	157000	
2,2',4,4',5,5'-HxCB (#153)	10	9840000	J	38900		1	1460000	J	165000	
2,3,4,4',5',6-HxCB (#168)	10	9840000	J	38900		1	1460000	J	165000	
2,2',3,3',4,5-HxCB (#129)	10	8840000	J	37000		1	1280000	J	173000	
2,2',3,4,4',5'-HxCB (#138)	10	8840000	J	37000		1	1280000	J	173000	
2,3,3',4',5,6-HxCB (#163)	10	8840000	J	37000		1	1280000	J	173000	
2,2',3,5'-TeCB (#44)	10	8310000	J	30300		1	742000	J	368000	
2,2',4,4'-TeCB (#47)	10	8310000	J	30300		1	742000	J	368000	
2,3,5,6-TeCB (#65)	10	8310000	J	30300		1	742000	J	368000	
2,3,3',4',6-PeCB (#110)	10	8180000	J	35500		1	1120000	J	281000	
2,3,4,4',6-PeCB (#115)	10	8180000	J	35500		1	1120000	J	281000	
2,2',3,4',5-PeCB (#90)	10	7630000	J	34700		1	1010000	J	223000	
2,2',4,5,5'-PeCB (#101)	10	7630000	J	34700		1	1010000	J	223000	
2,3,3',5',6-PeCB (#113)	10	7630000	J	34700		1	1010000	J	223000	
2,3',4,4'-TeCB (#66)	10	7530000	J	20800		1	427000		267000	
2,2',3,4',5,5',6-HpCB (#187)	10	7480000	J	25500		1	1150000	J	175000	
2,2',3,5',6-PeCB (#95)	10	6680000	J	30400		1	891000	J	213000	
2,4',5-TeCB (#31)	10	6360000	J	19400	J	1	158000		125000	
2,2',3,4,5-PeCB (#86)	10	5740000	J	27300		1	776000	J	211000	
2,2',3,4,5'-PeCB (#87)	10	5740000	J	27300		1	776000	J	211000	
2,2',3,4',5'-PeCB (#97)	10	5740000	J	27300		1	776000	J	211000	
2,3,3',4,5'-PeCB (#108)	10	5740000	J	27300		1	776000	J	211000	
2,3',4,4',6-PeCB (#119)	10	5740000	J	27300		1	776000	J	211000	
2,3',4',5',6-PeCB (#125)	10	5740000	J	27300		1	776000	J	211000	
2,4,4'-TrCB (#28)	10	5700000	J	18200	J	1	182000		119000	
2,3',4,4',5-PeCB (#118)	10	5540000	J	26500		1	554000	J	156000	
2,2',5-TeCB (#18)	10	5110000	J	18900	J	1	181000		105000	
2,4,6-TeCB (#30)	10	5110000	J	18900	J	1	181000		105000	
2,2',3,3',4,5,6'-HpCB (#174)	10	5010000	J	19800		1	726000	J	48400	
2,2',4,5'-TeCB (#49)	10	4490000	J	15900		1	394000		192000	
2,3',4,6-TeCB (#69)	10	4490000	J	15900		1	394000		192000	
2,2',3,4,4',5',6-HpCB (#183)	10	4470000	J	13900		1	792000	J	116000	
2,2',3,4,5,5',6-HpCB (#185)	10	4470000	J	13900		1	792000	J	116000	
2,2',3,3'-TeCB (#40)	10	4380000	J	11200		1	286000		143000	
2,3',4',6-TeCB (#71)	10	4380000	J	11200		1	286000		143000	
2,3,3',4'-TeCB (#56)	10	4340000	J	10600		1	164000		117000	
2,2',3,3',5,6'-HxCB (#135)	10	4280000	J	19000		1	666000	J	72700	

APPENDIX F
TABLE F-2
Polychlorinated Biphenyl Congeners Comparison
Metro Container Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A CONGENERS COMPARED BY ASCENDING CONCENTRATION

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :	QL	C01F5 MC07-GW-114 Result Flag pg/L Aqueous 3/13/2007 16:30 50	C01F6 MC07-GW-C3 Result Flag pg/L Aqueous 3/14/2007 10:45 1.17	QL	C01F7 MC07-SD-09 Result Flag pg/g Soil 3/06/2007 14:10 47.6	C01F8 MC07-SD-10 Result Flag pg/g Soil 3/06/2007 14:20 48.1
2,2',3,5,5',6-HxCB (#151)	10	4280000 J	19000	1	666000 J	72700
2,2',3,3',4,5,5',6-OcCB (#198)	10	4070000 J	19300	1	726000 J	139000
2,2',3,3',4,5,5',6'-OcCB (#199)	10	4070000 J	19300	1	726000 J	139000
2,3,4-TrCB (#21)	10	4070000 J	10700 J	1	62100	50900
2,3',4'-TrCB (#33)	10	4070000 J	10700 J	1	62100	50900
2,3,4',6-TeCB (#64)	10	3920000 J	11900	1	237000	141000
2,4'-DiCB (#8)	10	3180000 J	7740 J	1	49500	26500
2,2',4,4',5-PeCB (#99)	10	3150000 J	13900	1	445000	125000
2,2',3,3',4,4',5-HpCB (#170)	10	3140000 J	10600	1	528000 J	55800
2,2',3,3',5,6,6'-HpCB (#179)	10	3020000 J	10900	1	442000	
2,2',3,3',4,4',5,5'-OcCB (#194)	10	3000000 J	12900	1	544000 J	82800
2,3,3',4,4'-PeCB (#105)	10	2960000 J	12000	1	222000	96700
2,2',3,3',4,5',6'-HpCB (#177)	10	2790000 J	9640	1	438000	45900
2,2',3,3',4,6'-HxCB (#132)	10	2750000 J	12400	1	395000	58500
2,3,4,4'-TeCB (#60)	10	2630000 J	3870	1	61700	57500
2,3,4'-TrCB (#22)	10	2450000 J	6550 J	1	50000	36800
2,2',3,3',6-PeCB (#84)	10	2350000 J	10500	1	311000	89000
2,2',3,4'-TeCB (#42)	10	2200000 J	6780	1	181000	85900
2,2',4,5-TeCB (#48)	10	2190000 J	6380	1	93500	63800
2,2',3,3',4,4',5,6'-OcCB (#196)	10	2080000 J	8790	1	377000	70800
2,2',3-TrCB (#16)	10	1940000	7050 J	1	55800	32300
2,2',3,6-TeCB (#45)	10	1740000	5580	1	179000	81500
2,2',4,6'-TeCB (#51)	10	1740000	5580	1	179000	81500
2,2',4'-TrCB (#17)	10	1720000	5980 J	1	64900	37600
2,2',3,4,4',5,5',6-OcCB (#203)	10	1700000	10100	1	348000	64600
3,4,4'-TrCB (#37)	10	1670000	3400	1	39200	27700
2,2',3,4,5,5'-HxCB (#141)	10	1590000	6810	1	183000	19900 J
2,2'-DiCB (#4)	10	1550000	7360 J	1	42700	12900
2,2',3,3',6,6'-HxCB (#136)	10	1450000	5740	1	218000	26700
4,4'-DiCB (#15)	10	1310000	2470	1	33100	20800
2,2',3,3',4-PeCB (#82)	10	1240000	5100	1	161000	55000
2,2',4,6-TeCB (#50)	10	1240000	4090	1	143000	69100
2,2',5,6'-TeCB (#53)	10	1240000	4090	1	143000	69100
2,2',3,3',4,4',5,6-OcCB (#195)	10	1190000	4800	1	216000	20800
2,2',3,3',5,5',6-HpCB (#178)	10	1150000	4180	1	186000	23800
2,2',3,4,4'-PeCB (#85)	10	1150000	5790	1	155000	50500
2,2',3,4,6-PeCB (#88)	10	1150000	4810	1	178000	56800
2,2',3,4',6-PeCB (#91)	10	1150000	4810	1	178000	56800
2,3,4,5,6-PeCB (#116)	10	1150000	5790	1	155000	50500
2,3,4',5,6-PeCB (#117)	10	1150000	5790	1	155000	50500
2,4',6-TrCB (#32)	10	1110000	4840 J	1	71800	36600
2,2',3,3',4,4'-HxCB (#128)	10	1080000	5030	1	161000	26700
2,3,4,4',5,6-HxCB (#166)	10	1080000	5030	1	161000	26700
2,2',3,3',4,4',6-HpCB (#171)	10	1050000	3710	1	161000	18200
2,2,3,3',4,5,6-HpCB (#173)	10	1050000	3710	1	161000	18200
2,2',3,5,5'-PeCB (#92)	10	1030000	6290	1	186000	42800

APPENDIX F
TABLE F-2
Polychlorinated Biphenyl Congeners Comparison
Metro Container Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A CONGENERS COMPARED BY ASCENDING CONCENTRATION

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number : Sampling Location : PCB Chlorination Level (IUPAC#) Units : Matrix : Date Sampled : Time Sampled : Dilution Factor :	QL	C01F5 MC07-GW-114 Result Flag pg/L Aqueous 3/13/2007 16:30 50	C01F6 MC07-GW-C3 Result Flag pg/L Aqueous 3/14/2007 10:45 1.17	QL	C01F7 MC07-SD-09 Result Flag pg/g Soil 3/06/2007 14:10 47.6	C01F8 MC07-SD-10 Result Flag pg/g Soil 3/06/2007 14:20 48.1
2,2',3,4',5,5'-HxCB (#146)	10	1020000	4860	1	167000	21500
2,3',5-TrCB (#26)	10	1000000	2850 J	1	28100	17600
2,4,5-TrCB (#29)	10	1000000	2850 J	1	28100	17600
2,2',3,4-TeCB (#41)	10	984000	2970	1	47100	39500
2-MoCB (#1)	10	956000	5070	1	10600	4980
2,3,3',4,4',6-HxCB (#158)	10	837000	3580	1	119000	17000
2,3,3',4,4',5,6-HpCB (#190)	10	797000	2730	1	137000	16500
2,3'-DiCB (#6)	10	789000	2010 J	1	12100	7100
2,3,3',6-TeCB (#59)	10	753000	2230	1	66700	31300
2,3,4,6-TeCB (#62)	10	753000	2230	1	66700	31300
2,4,4',6-TeCB (#75)	10	753000	2230	1	66700	31300
2,2',3,3',4,6,6'-HpCB (#176)	10	751000	2670	1	112000	12300
2,2',3,3',5,5',6,6'-OoCB (#202)	10	746000	3370	1	133000	36100
2,2',3,3',4,4',5,5',6-NoCB (#206)	10	742000	8080	1	173000	76800
2,3,3',4,4',5-HxCB (#156)	10	741000	3750	1	88900	16000
2,3,3',4,4',5'-HxCB (#157)	10	741000	3750	1	88900	16000
2,2',3,3',4,4',6,6'-OoCB (#197)	10	692000	3270	1	111000	16600
2,2',3,3',4,5,6,6'-OoCB (#200)	10	692000	3270	1	111000	16600
2,2',3,3',4,5,5'-HpCB (#172)	10	632000		1	118000	11400
4-MoCB (#3)	10	588000	1050	1	5910	5220
2,2',3,4,5',6-HxCB (#144)	10	576000		1	88400	10200
2,2',3,3',4,5',6,6'-OoCB (#201)	10	569000	2680	1	94000	17900
2,2',3,6'-TeCB (#46)	10	569000	1790	1	50700	24700
2,2',6-TrCB (#19)	10	559000	1930 J	1	33300	12700
3,3',4,4'-TeCB (#77)	10	551000	1500	1	27200	18200
2,2',3,3',5-PeCB (#83)	10	513000	1910	1	37600	14600
2,2',3,5-TeCB (#43)	10	502000	1540	1	37500	15100
2,2',3,4,4',5-HxCB (#137)	10	490000	2660	1	82400	14700
2,3,3',4,6-PeCB (#109)	10	459000	2030	1	50300	17300
2,2',3,3',5,6-HxCB (#134)	10	438000	1740	1		5760 J
2,2',3,3',4,5'-HxCB (#130)	10	420000	2110	1	66300	10500
2,3,3',4',5,6-HxCB (#164)	10	385000	1480	1	54200	6320
2,3,4',5-TeCB (#63)	10	380000	1070	1	11500	10000
2,2',3,4',6'-PeCB (#98)	10	330000	1340	1	49700	17700
2,2',4,5,6'-PeCB (#102)	10	330000	1340	1	49700	17700
2,3',4-TrCB (#25)	10	330000	1010 J	1	11400	6230
2,3',6-TrCB (#27)	10	306000	987 J	1	18100	7450
2,3,3',4',5-PeCB (#107)	10	303000	1190	1		9100
2,3',4',5,5'-PeCB (#124)	10	303000	1190	1		9100
2,3-DiCB (#5)	10	297000	1030 J	1	4820 J	3060
2,5-DiCB (#9)	10	296000	820 J	1	5370	3460
3,4-DiCB (#12)	10	240000	404 J	1	3420	3140
3,4'-DiCB (#13)	10	240000	404 J	1	3420	3140
3,3',4,5'-TeCB (#79)	10	235000		1	27200	
2,3',4,5-TeCB (#67)	10	211000	491	1	7960	5400
3-MoCB (#2)	10	211000	309	1	1380	1080

APPENDIX F
TABLE F-2
Polychlorinated Biphenyl Congeners Comparison
Metro Container Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A CONGENERS COMPARED BY ASCENDING CONCENTRATION

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number :	QL	C01F5 MC07-GW-114 Result Flag pg/L Aqueous 3/13/2007 16:30 50	C01F6 MC07-GW-C3 Result Flag pg/L Aqueous 3/14/2007 10:45 1.17	QL	C01F7 MC07-SD-09 Result Flag pg/g Soil 3/06/2007 14:10 47.6	C01F8 MC07-SD-10 Result Flag pg/g Soil 3/06/2007 14:20 48.1
2,3,3',4,5,5'-HxCB (#159)	10	209000		1	25100	2690
2,3',4,4',5,5'-HxCB (#167)	10	204000	1070	1	38000	5330
2,2',3,3',4,5',6'-HpCB (#175)	10	194000		1	29400	1810
2,2',3,4,6'-PeCB (#89)	10	186000	617	1	23300	9990
2,4-DiCB (#7)	10	176000	428 J	1	2560	2080
2,3,4,4',5-PeCB (#114)	10	172000	728	1	6350	4290
2,2',3,3',4,5,5',6'-NoCB (#208)	10	168000	1820	1	39500	8850
2,3,3',4'-TeCB (#55)	10	156000		1		5930
2,2',3,3',4,4',5,6,6'-NoCB (#207)	10	144000	971	1	28800	5080
2,3,3',4',5,5'-HxCB (#162)	10	135000	541	1	5830	
2,3,3',4,4',5,5',6'-OxCB (#205)	10	117000	545	1	21200	2430
2,2',3,4,4',6'-HxCB (#139)	10	112000	649	1	16600	2360
2,2',3,4,4',6'-HxCB (#140)	10	112000	649	1	16600	2360
2,3,6-TrCB (#24)	10	111000	254 J	1	3050	1050
2,2',3,5,6-PeCB (#93)	10	105000	1030	1	26500	7460
2,2',4,4',6-PeCB (#100)	10	105000	6290	1	26500	7460
2,3,3',4',5'-PeCB (#122)	10	101000	371	1	11400	3290
2,2',3,3',4,6'-HxCB (#131)	10	96500	517	1	15200	
2,2',3,3',5,5'-HxCB (#133)	10	92800	488	1	15300	
2,2',3,6,6'-PeCB (#96)	10	89700	387	1	13400	5510
2,3',4,4',5'-PeCB (#123)	10	84900	307	1	9460	
2,6-DiCB (#10)	10	61300	286 J	1	1960	850
3,3',4'-TrCB (#35)	10	59400		1	1140 J	
2,3,3',4,4',5,5'-HpCB (#189)	10	56700	256	1	12200	981
2,2',3,5,6'-PeCB (#94)	10	54900	254	1	8020	3220
3,4',5'-TrCB (#39)	10	52900	187 J	1		1540
2,2',3,3',4,4',5,5',6,6'-DeCB (#209)	10	48200	1290 J	1	19700	16600
2,2',4,5',6-PeCB (#103)	10	42800	210	1	6400	2320
3,3'-DiCB (#11)	10	40700	136 B	1	1010	805
2,3',5,5'-TeCB (#72)	10	29200		1	3260	
2,2',4,4',5,6'-HxCB (#154)	10	26100	145	1		
2,2',6,6'-TeCB (#54)	10	23300	84.3 J	1	2270	1050
2,3',5'-TrCB (#34)	10	19000	123 J	1	399	
2,3',4,5'-TeCB (#68)	10	15200		1	1700	672 J
2,2',3,5,6,6'-HxCB (#152)	10	6420		1	1050	
2,3,5-TrCB (#23)	10	5370		1		
2,2',3,4',6,6'-HxCB (#150)	10	4440		1	965 J	
2,3',4,5,5'-PeCB (#120)	10	3380		1		
2,2',3,4,4',5,6,6'-OxCB (#204)	10			1		
2,2',3,4,4',5,6'-HpCB (#181)	10			1		
2,2',3,4,4',5,6'-HpCB (#182)	10			1		
2,2',3,4,4',6,6'-HpCB (#184)	10			1		
2,2',3,4,5,6,6'-HpCB (#186)	10			1		
2,2',3,4',5,6,6'-HpCB (#188)	10			1		
2,2',3,4,5,6-HxCB (#142)	10			1		
2,2',3,4,5,6'-HxCB (#143)	10			1	42400	

APPENDIX F
TABLE F-2
Polychlorinated Biphenyl Congeners Comparison
Metro Container Site, Trainer, Pennsylvania

DATA SUMMARY FORM: 1668A CONGENERS COMPARED BY ASCENDING CONCENTRATION

Case #: R32688

Site :

Metro Container

Lab. :

SGS

Sample Number : Sampling Location : PCB Chlorination Level (IUPAC#) Units : Matrix : Date Sampled : Time Sampled : Dilution Factor :	QL	C01F5 MC07-GW-114 Result Flag pg/L Aqueous 3/13/2007 16:30 50	C01F6 MC07-GW-C3 Result Flag pg/L Aqueous 3/14/2007 10:45 1.17	QL	C01F7 MC07-SD-09 Result Flag pg/g Soil 3/06/2007 14:10 47.6	C01F8 MC07-SD-10 Result Flag pg/g Soil 3/06/2007 14:20 48.1
2,2',3,4',5,6'-HxCB (#148)	10			1	594	
2,2',3,4,6,6'-HxCB (#145)	10			1		
2,2',4,4',6,6'-HxCB (#155)	10			1		
2,2',4,6,6'-PeCB (#104)	10			1	265 J	
2,3,3',4,4',5',6'-HpCB (#191)	10		355	1	17300	
2,3,3',4,5,5',6'-HpCB (#192)	10			1		
2,3,3',4,5,6-HxCB (#160)	10			1		
2,3,3',4,5',6-HxCB (#161)	10			1		19000
2,3,3',4,5-PeCB (#106)	10			1	11700	1960 J
2,3,3',5,5',6-HxCB (#165)	10			1		
2,3,3',5,5'-PeCB (#111)	10			1		
2,3,3',5,6-PeCB (#112)	10			1	9170	
2,3,3',5-TeCB (#57)	10			1		
2,3,3',5'-TeCB (#58)	10			1		777
2,3',4,5',6-PeCB (#121)	10			1		
2,3',5',6-TeCB (#73)	10			1		3170
3,3',4,4',5,5'-HxCB (#169)	10		169	1		
3,3',4,4',5-PeCB (#126)	10			1		
3,3',4,5,5'-PeCB (#127)	10			1		
3,3',4,5-TeCB (#78)	10			1		
3,3',5,5'-TeCB (#80)	10			1		
3,3',5-TrCB (#36)	10			1		
3,4,4',5-TeCB (#81)	10			1		
3,4,5-TrCB (#38)	10			1		
3,5-DiCB (#14)	10			1		

QL = Quantitation Limit

To calculate sample quantitation limits: (QL * Dilution Factor)

#12 & #13 coelute, #18 & #30 coelute, #26 & #29 coelute, #20 & #28 coelute, # 21& #33 coelute
 #40 & #71 coelute, #44,#47,#65 coelute, #45 & #51 coelute, #50 & #53 coelute, #49 & #69 coelute,
 #59,#62,#75 coelute, #61,#70, #74, #76 coelute
 #85,#116,#117 coelute, #86,#87,#97,#108,#119, #125 coelute, #88 & #91 coelute, #90,#101,#113 coelute,
 #93 & #100 coelute, #98 & #102 coelute#107,#124 coelute, #110,#115 coelute
 #128,#166 coelute, #129,#138,#163 coelute, #135 & #151 coelute, #139 & #140 coelute, #147& #149 coelute,
 #153 & #168 coelute, #156, #157 coelute
 #128,#166 coelute, #129,#138,#163 coelute, #135 & #151 coelute, #139 & #140 coelute, #147& #149 coelute,
 #153 & #168 coelute, #156, #157 coelute
 #171 & #173 coelute, # 180 & #193 coelute, #183 & #185 coelute, #197 & #200 coelute, #198 & # 199 coelute
 #197 & #200 coelute, #198 & # 199 coelute

APPENDIX - F

PCB Congeners Comparison Metro Container Site, Trainer, Pennsylvania

Tetra Tech compared the congeners found in monitoring wells GW-114 and GWC3, both onsite wells, to the congeners found in sediment samples SD-09 and SD-01 both collected outside the property limits.

Tetra Tech is providing two tables comparing the data.

The first table compares the data by the chlorination level presented using increasing International Union of Pure and Applied Chemicals (IUCAP) number. There are 209 PCB congeners. Of the 209 congeners there were only 32 congeners that were not detected in either the water samples or the sediment samples.

The only significant difference detected was for PCB congener 179. It was detected in both groundwater samples and a relatively high concentration compared to the other congeners (19 percent of the highest concentration), but was not detected in sediment sample SD-10.

The second table provides the data in concentration order comparing the highest concentrations found in sample GW-114 (onsite sample with the highest PCB concentrations to the other samples.

The table shows that for the first 122 congeners both the sediment samples have detects when they were found in sample GW-114 (with the exception of congener 179 as noted above). The concentration of this congener is 2.8 percent the concentration of the highest congener. Even congener 179 is only 19 percent of the highest concentration congener.

This clearly demonstrates that the congeners in the sediment samples can be attributed to the site with some environmental differences probably due to degradation of the congeners.

APPENDIX G
SOIL GAS SAMPLE RESULTS
(1 Page)

APPENDIX -G

TABLE -G1

SOIL GAS ANALYTICAL RESULTS

Metro Container Site, Trainer, Pennsylvania

Analytes	Ranging of Results [parts per billion volume (ppbv)]
Ethanol	Ranged 2.4 to 46 in three samples
Trichlorofluoromethane	Ranged 0.2 and 0.3 in 2 of 4 samples
Isopropyl alcohol	Ranged 382 to 230,000 in 4 of 4 samples
Acetone	Ranged 88 to 38,000 in 4 of 4 samples
Carbon disulfide	Ranged 0.8 and 1.0 in 2 of 4 samples
Hexane	Ranged 0.5 to 5.0 in 3 of 4 samples
2-butanone	Ranged .8 to 4 in 3 of 4 samples
Cyclohexane	Ranged 1.1 and 6.9 in 2 of 4 samples
Benzene	Ranged 0.8 to 1.8 in 3 of 4 samples