

**FINAL TRIP REPORT  
JUNE 2010 SOIL AND SEDIMENT SAMPLING EVENT  
METRO CONTAINER SITE  
TRAINER, DELAWARE COUNTY, PENNSYLVANIA**

Prepared for:

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

Prepared by:

Weston Solutions, Inc.  
Edison, New Jersey 08837

EPA Contract No. EP-S3-10-05

Technical Direction Document No. WS03-10-10-001  
Document Control No. W0031.1A.00168

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## **1.0 INTRODUCTION**

U.S. Environmental Protection Agency (EPA) Region 3 has tasked Weston Solutions, Inc. (WESTON®) to support EPA's assessment activities at the Metro Container site in Trainer, Delaware County, Pennsylvania under Superfund Technical Assessment and Response Team (START) Contract No. EP-S3-10-05, Technical Direction Document (TDD) No. WS03-10-10-001. Under the previous Region 3 START contract (Eastern Area START Contract No. EP-S3-05-02), Tetra Tech EM Inc. (Tetra Tech) conducted sampling events at the Metro Container site in March 2007 (TDD Nos. E13-008-06-07-008 and E23-014-07-07-011), August 2008 (TDD No. E33-020-08-07-009), and June 2010 (TDD No. E43-030-09-09-004). This trip report summarizes the field activities and laboratory analytical results for the June 2010 sampling event, which included soil and sediment sampling at and near the site (the previous sampling activities were described in trip reports prepared by Tetra Tech on November 7, 2007 and April 14, 2009).

References are listed after the text. Appendix A provides the figures, Appendix B provides analytical data summary tables, Appendix C provides a copy of the field logbook notes, and Appendix D provides the analytical data reports.

## **2.0 BACKGROUND**

This section includes background information on the Metro Container site, including its location, description, and history of site activities and investigations.

### **2.1 Site Location**

The Metro Container site is located in Trainer, Delaware County, Pennsylvania. The approximate geographic coordinates of the center of the site are 39.82642 degrees north latitude and 75.39903 degrees west longitude (U.S. Geological Survey [USGS] 1995). The Metro Container site is located south of the intersection of West 2<sup>nd</sup> Street and Price Street, in a heavily industrialized area of southeastern Pennsylvania. Industrial facilities surrounding the site include a scrap metal yard and water treatment plant to the east, rail yard to the southeast, and ConocoPhillips, Inc. refinery to the south and west. A mixed commercial and residential area is located north of the Metro Container site, directly across West 2<sup>nd</sup> Street. The site lies along Stoney Creek, a small tributary, approximately 0.17 mile upstream (north) of the stream's confluence with the Delaware River. The rail yard and a portion of the ConocoPhillips refinery are located along Stoney Creek between the site and the Delaware River. The refinery has a large outfall for non-contact cooling water adjacent to the site, which continuously releases a high volume of water to Stoney Creek. Appendix A, Figure 1 shows the site location (USGS 1995), while Figure 2 shows an aerial view of the site and surrounding area (U.S. Fish & Wildlife Service [USFWS] 2008).

The areas sampled during the June 2010 sampling event are located on the former Metro Container property and in the Delaware River south of the property. This area is characterized by mudflats located northeast of the confluence of Stoney Creek and Delaware River, which is tidal in this region. The mudflats are exposed during low tide and completely submerged during high tide. This area is surrounded by undeveloped land to the northeast and the ConocoPhillips refinery to the southwest. Depositional areas of higher elevation than the surrounding mudflats were observed

along the southern boundary of the sampling area and in a partially grass-covered area to the southwest.

## **2.2 Site Description**

The Metro Container site is a graded, industrial property of approximately 10.41 acres. Two buildings are currently located on the site. The larger building is 40,000 square feet (ft<sup>2</sup>) and is currently used by Trainer Industries, LLC, the current property occupant, as a chemical storage and painting area. The open area located west of the building is used for sand blasting of pipes and vessels prior to repainting. The smaller building is approximately 6,000 ft<sup>2</sup> and is currently used for office space. Price Street intersects the property from West 2<sup>nd</sup> Street to the eastern edge of the property at the rail yard. By agreement with the current property owner, most of the site was 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 control.

The northwest portion of the Metro Container site is characterized by trees and shrubs and ground cover vegetation. Some areas of the site, including Price Street and a road between the two structures, are asphalt-covered. An elevated, recently-graded area south of the gravel-covered parking lot is the former location of a concrete holding tank. The southern and western portion of the property is bordered by Stoney Creek, a small tributary to the Delaware River. The ConocoPhillips oil refinery operates the Stoney Creek Guard Basin, which continuously discharges a large volume of non-contact cooling water into Stoney Creek, along the southern boundary of Stoney Creek. Figure 3 in Appendix A presents an aerial view of the site layout and immediate surroundings.

## **2.3 Site History**

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 19<sup>th</sup> century, the site was occupied by the Delaware Oil Works. From 1913 to approximately 1920, the site was occupied by the Manufacturers Paraffin Company, which included storage tanks, refinery stills, an agitator house, condensers, storage facilities, and a packing shed and barreling house for 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. The two 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". The formerly-used chemical disposal lagoon that is currently filled-in was constructed between 1953 and 1959 during the late stages of Stauffer property ownership (MWH 2005).

From 1963 to 1969, Joseph A. Reis Company owned the property and used it for steel drum recycling (MWH 2005). Sanborn maps list the location of the former disposal lagoon as a pond, and aerial photographs from 1965 and 1970 indicate that the "pond" was filled with a black liquid (MWH 2005). Sometime prior to 1969, Universal Container Corporation assumed ownership of the property, and apparently continued the drum recycling operation (MWH 2005).

In 1983, the property was conveyed to the First Union Commercial Corporation, then to Metro Container Corporation, with drum recycling and reclamation operations continuing through these changes in property ownership (MWH 2005). Metro Container received an estimated 450,000 drums per 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 that MWH issued on November 11, 2005, provides a detailed history of the environmental regulatory violations committed by the various facility owners, as well as assessments conducted at the site by various parties that included the Pennsylvania Department of Health (PADOH), Delaware River Basin Commission, Pennsylvania Department of Environmental Protection (PADEP; formerly known as Pennsylvania Department of Environmental Resources [PADER]), Delcora, EPA, U.S. Coast Guard, and the U.S. Attorney for the Eastern District (MWH 2005).

Between 1986 and 1989, EPA and PADEP issued at least 23 notices of violations (NOV) and conducted numerous site inspections at the Metro Container site. In July 1991, owners and operators of the Metro Container Corporation pleaded guilty in federal court to toxic waste dumping charges during Metro Container Corporation's ownership of the facility. Some time between 1994 and 1995, a fire destroyed the roof of the main office building at the abandoned site (MWH 2005).

## **2.4 Previous Investigations**

Numerous investigations have been conducted at the Metro Container site. EPA's website provides a summary of the actions taken regarding the site, which includes more than 40 Issue Request Letters (IOLs) dated from December 1985 through February 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 on Consent (AOC) issued on September 21, 1999.

Beginning in 1965, Metro Container Corporation was ordered by PADOH to cease discharging untreated waste directly into Stoney Creek. Discharges to Stoney Creek occurred unabated into the early 1970s, even after installation of a primary treatment system after 1972. A trench was cut from an on-site lagoon in 1969 allowing wastewater from the lagoon to discharge directly into Stoney Creek. Unpermitted discharges to the creek continued through the 1980s (MWH 2005).

In the early 1970s, PADEP received reports of on-site landfilling of drums and other wastes, oil seeps from the lagoon, black substance seeping from the site to adjacent railroad tracks, and unpermitted discharges from the Metro Container site. PADEP verified these reports during site inspections. PADEP site inspections conducted in the 1980s identified improperly stored drums and wastes; poor housekeeping; liquids flowing into building storm drains and finally to Stoney Creek; filling and dumping in the Stoney Creek floodplain; red material flowing on the ground and into Stoney Creek; drum wastes stored in site buildings overflowing into building drains and discharging into Stoney Creek; black substance leaking into Stoney Creek; leaking drum stored outside on the ground; and various spills. PADEP issued numerous NOVs to the facility for these observed violations. PADEP follow-up inspections indicated that the facility remained in noncompliance with

environmental regulations and that violations described in the NOV's were not mitigated. The facility continued to release wastes to the ground surface and surface water (MWH 2005).

In 1987, a three-alarm fire damaged a portion of the drum reclaiming building after a worker accidentally dropped a torch into a paint bucket. Also in 1987, EPA's Technical Assistance Team (TAT) conducted a visual site inspection of the Metro Container site. The following observations were made during the 1987 inspection: (1) 60,000 unclaimed drums were stored on site; (2) wastewater treatment shutdown resulted in the build-up of untreated sludge, which was stored in a concrete holding tank and thousands of unsecured drums throughout the facility; and (3) many of the stored drums were in poor condition. Limited sampling by TAT revealed ethylene benzene, toluene, chlorinated hydrocarbons, base neutrals, phenols, and lead (MWH 2005).

In 1988, EPA collected waste samples from the site for waste characterization. Results from this investigation revealed numerous volatile organic compounds (VOC) and semivolatile organic compounds (SVOC). In 1988, the U.S. Coast Guard responded to a spill of oil discharged from the Metro Container site into Stoney Creek and ultimately the Delaware River. EPA conducted numerous sampling investigations in 1988 (MWH 2005).

In 1988, in response to Metro Container Corporation's unwillingness to comply with environmental regulations, rectify negligent activities, and address continued discharges from the site to Stoney Creek, EPA obtained funds under CERCLA to control the off-site migration of contamination and to erect a security fence around the site. EPA began negotiations with responsible parties to remediate the site. After a long period of negotiations, the responsible parties contracted MK Environmental to conduct removal activities at the site. The contractor removed and disposed of 6,054.5 tons of waste, including sludge, drums, and contaminated soil. Approximately 1.5 feet of visually contaminated soil was excavated and the excavated area was graded to create sheet flow drainage to Stoney Creek. The location of the excavation and primary references for the excavation are not in available reports for the site. About 6,500 cubic yards of contaminated soil was removed (MWH 2005).

According to the 2005 MWH Site Characterization Report, Pennoni Associates, Inc. (Pennoni), conducted a site investigation in 1999 that included the collection of subsurface soil, surface water, and ground water samples. The number of samples collected by Pennoni is not provided in the MWH Site Characterization Report. In 2005, MWH conducted a comprehensive site characterization including the collection of 130 soil (waste) samples from 130 soil borings, ground water samples, and surface water samples (MWH 2005).

In March 2007, Tetra Tech conducted removal site assessment sampling at the Metro Container site on behalf of EPA. Tetra Tech collected 25 surface soil, 24 subsurface soil, 19 groundwater, 4 soil gas, 9 surface water, and 10 sediment samples at the site (Tetra Tech 2007). The majority of the surface water and sediment samples were collected from Stoney Creek, and one sediment sample was collected from the mudflats at the confluence of Stoney Creek and the Delaware River. Analytical results revealed the presence of VOCs, SVOCs, antimony, arsenic, lead, vanadium, pesticides, and polychlorinated biphenyls (PCB) on site and in Stoney Creek. Specifically, the PCBs Aroclor-1248, Aroclor-1254, and Aroclor-1260 were detected in soil samples collected from the site at individual concentrations up to 62,000 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ). Two sediment samples collected from Stoney Creek contained the same PCBs at individual concentrations up to 9,500  $\mu\text{g}/\text{kg}$ . According to Tetra Tech, a comparison of the PCB congeners reported in the Stoney Creek

sediment samples to the congeners detected in groundwater from on-site monitoring wells demonstrated that the PCBs in the off-site sediment samples had migrated from the site. A full discussion of the results of this sampling event was presented in the November 7, 2007 trip report prepared by Tetra Tech (Tetra Tech 2007). Sample locations for the March 2007 investigation are shown in Appendix A, Figure 4.

In August 2008, Tetra Tech collected 16 additional sediment samples from the Delaware River in the vicinity of the Metro Container site. The samples were collected from an area of concern identified by EPA Region 3's Biological Technical Assistance Group (BTAG) to determine the impact of site contaminants on Delaware River sediments. Analytical results indicated the presence of PCBs in 7 of the 16 sediment samples, at individual concentrations up to 1,600 µg/kg. Polycyclic aromatic hydrocarbons (PAH) and pesticides were reported for 5 of the 16 samples. Maximum concentrations of metals were reported for the same samples that contained PAHs and PCBs. The analytical results obtained from this sampling event indicated that an area of sediments contaminated with PAHs and PCBs is located in the Delaware River in the vicinity of the Metro Container site. A full discussion of the results of this sampling event was presented in the April 14, 2009 trip report prepared by Tetra Tech (Tetra Tech 2009). Sample locations for the August 2008 investigation are shown in Appendix A, Figure 5.

### **3.0 SAMPLING ACTIVITIES**

On June 7, 2010, Tetra Tech, EPA, and PADEP personnel mobilized to the Metro Container site. PADEP representative Sara Pantelidou had conducted historical inspections of the site and was knowledgeable of the locations of pertinent site features such as the formerly-used wastewater lagoon and drum disposal and storage areas. Ms. Pantelidou indicated to EPA and Tetra Tech the location of the formerly-used lagoon. Visual inspection of the area by Tetra Tech revealed that the lagoon is gravel-filled, partially vegetated with grasses and weeds, and very hard at the surface. Upon visual inspection of other proposed on-site sample locations, a determination was made that collecting samples with a hand auger would not be feasible due to the hardness of the surface. After consulting with Tetra Tech, EPA decided to forego collection of the other on-site soil samples proposed in the May 2010 Final Sampling and Analysis Plan (SAP) for the Metro Container Site (Tetra Tech 2010a), with the exception of the formerly-used lagoon area.

From June 7-10, 2010, Tetra Tech collected soil and sediment samples at and in the vicinity of the Metro Container site in accordance with the EPA-approved Final SAP for the Metro Container Site (Tetra Tech 2010a). Deviations from the Final SAP are described in Section 3.4. The areas targeted for sampling included the on-site former lagoon area and the mudflats at the confluence of Stoney Creek and the Delaware River. During the completion of the sampling event, Tetra Tech documented all site activities in site logbooks in accordance with Tetra Tech Standard Operating Procedure (SOP) No. 024, "Recording of Notes in Field Logbook" and logged the sample locations electronically using global positioning system (GPS) equipment (Tetra Tech 2010b). Table 1 provides the sample identifiers, collection times, descriptions, locations, and depths for the soil and sediment samples. The sample locations are shown in Appendix A, Figure 6, and a copy of the field logbook notes is provided in Appendix C.

#### **3.1 Soil Sampling**

On June 7, 2010, Tetra Tech collected three surface soil samples (MC-SS-01, MC-SS-02, and MC-SS-03) and two subsurface soil samples (MC-SB-02 and MC-SB-03) from the formerly-used chemical disposal lagoon area. On June 8, 2010, Tetra Tech collected two surface soil samples (MC-SS-04 and MC-SS-05) and one subsurface soil sample (MC-SB-04) from off-site areas to document background conditions. For this sampling event, surface soil samples were collected from 0 to 6 inches below ground surface (bgs) and subsurface soil samples were collected from 6 to 12 inches bgs. All sampling procedures were documented in the field logbook (Appendix C) at the time of sample collection and the sample locations were recorded with a GPS unit.

All soil samples were collected in accordance with Tetra Tech SOP No. 005-2, "Soil Sampling". Tetra Tech collected the soil samples using a hand-held auger decontaminated in accordance with Tetra Tech SOP No. 002-3, "General Equipment Decontamination". Initially, the soil from 0 to 6 inches bgs was collected with a hand auger; placed into a dedicated, disposable aluminum pan; and homogenized with a dedicated, disposable plastic scoop prior to placement into the laboratory containers. The subsurface soil sample was collected from 6 to 12 inches bgs in the same boring as the surface soil sample. The subsurface soil was also placed into a dedicated, disposable aluminum pan from the hand-auger and homogenized with a dedicated, disposable plastic scoop prior to placement into the laboratory containers (Tetra Tech 2010b). Due to refusal of the hand auger, subsurface soil samples were not collected from the borings where surface soil samples MC-SS-01 and MC-SS-05 were collected.

### **3.2 Sediment Sampling**

On June 7, 8, and 10, 2010, Tetra Tech collected a total of 15 sediment samples at and in the vicinity of the Metro Container site. Sediment samples MC-SD-05, MC-SD-06 and MC-SD-07 were collected from submerged locations within Stoney Creek directly adjacent to the site. A strong petroleum odor and black staining was observed in these sediment samples. Sample MC-SD-07 was collected directly upstream of the ConocoPhillips refinery outfall for non-contact cooling water. The surface water in the location of the outfall was noted to be significantly warmer than the water located upstream of this outfall.

Three sediment samples were collected from Stoney Creek upstream of the Metro Container site to document background conditions. Samples MC-SD-02 and MC-SD-03 were collected adjacent to the Stoney Creek Technologies site, where there is an ongoing EPA removal action. Sediment sample MC-SD-01 was collected upstream of both sites (Stoney Creek Technologies and Metro Container).

**TABLE 1  
SAMPLING SUMMARY**

| <b>Sample Identifier</b> | <b>Sample Date</b> | <b>Collection Time</b> | <b>Sample Description</b>  | <b>Sample Location and Depth</b>  |
|--------------------------|--------------------|------------------------|--|---|
| <b>SOIL SAMPLES</b>      |                    |                        |  |   |
| MC-SS-01                 | 06/07/10           | 1120                   | dry, brown to dark-brown, silty, fine sand                         | On-site surface soil sample from the former chemical disposal lagoon, west/southwest of monitoring well MW-6. Depth: 0-6 inches below ground surface (bgs).                         |
| MC-SS-02                 | 06/07/10           | 1202                   | silty, fine sand with brick, rock, and wood debris                 | On-site surface soil sample from the former chemical disposal lagoon, south of MW-6. Depth: 0-6 inches bgs.   |
| MC-SB-02                 | 06/07/10           | 1211                   | dry, brown, silty, fine sand with brick, glass, wood, and rock     | On-site subsurface soil sample from the same location as surface sample MC-SS-02. Depth: 6-12 inches bgs.   |
| MC-SS-03                 | 06/07/10           | 1240                   | dry, silty fine sand with rocks                                    | On-site surface soil sample from the former chemical disposal lagoon, north/northeast of MW-6. Depth: 0-6 inches bgs.   |
| MC-SB-03                 | 06/07/10           | 1248                   | dry, brown, silty, fine sand with wood, rock, and brick fragments. | On-site subsurface soil sample from the same location as surface sample MC-SS-03. Depth: 6-12 inches bgs.   |
| MC-SS-04                 | 06/08/20           | 1500                   | dry, gray-brown, organic soil, silty fine sand                     | Background surface soil sample from vegetated industrial land north of the Amtrak/SEPTA railroad tracks. Depth: 0-6 inches bgs.   |
| MC-SB-04                 | 06/08/10           | 1510                   | dry, brown, silt with some fine sand and clay.                     | Background subsurface soil sample from the same location as surface sample MC-SS-04. Depth: 6-12 inches bgs.  |
| MC-SS-05                 | 06/08/10           | 1724                   | brown, sandy soil with silt  | Background soil sample from Market Square Memorial Park (community park). Depth: 0-6 inches bgs.  |
| <b>SEDIMENT SAMPLES</b>  |                    |                        |  |   |
| MC-SD-01                 | 06/10/10           | 1600                   | wet, black, sandy silt   | Background sediment sample from submerged location in the northern end of Stoney Creek, upstream of the Metro Container and Stoney Creek Technologies sites. Depth: 0-8 inches bgs. |
| MC-SD-02                 | 06/08/10           | 1430                   | black, sandy silt with gravel; petroleum odor noted                | Sediment sample from submerged location in Stoney Creek, adjacent to Stoney Creek Technologies site and upstream of Metro Container site. Depth: 0-6 inches bgs.                    |



**TABLE 1 (continued)**  
**SAMPLING SUMMARY**

| <b>Sample Identifier</b> | <b>Sample Date</b> | <b>Collection Time</b> | <b>Sample Description</b>   | <b>Sample Location and Depth</b>   |
|--------------------------|--------------------|------------------------|---|--|
| MC-SD-03                 | 06/08/10           | 1401                   | black, sandy silt with gravel, some organic matter; petroleum odor noted  | Sediment sample from submerged location in Stoney Creek, approximately 20 feet south of elevated railroad tracks, adjacent to Stoney Creek Technologies site, and upstream of Metro Container site. Depth: 0-6 inches bgs.                               |
| MC-SD-05                 | 06/07/10           | 1235                   | black silt, clay, and gravel; very strong petroleum odor  | Sediment sample from submerged location along the east side of Stoney Creek that receives drainage from Metro Container site. Waste material was observed in the nearby stream bank. Depth: 0-6 inches bgs.  |
| MC-SD-06                 | 06/07/10           | 1205                   | gray, silty sediment  | Sediment sample from submerged location along the east side of Stoney Creek, approximately 1 foot downstream of the drainage ditch that drains the Metro Container site, in an area where rubble forms the banks of Stoney Creek. Depth: 0-6 inches bgs. |
| MC-SD-07                 | 06/07/10           | 1140                   | black sand and silt with large amount of organic material; strong petroleum odor and elevated temperature noted | Sediment sample from submerged location along the east side of Stoney Creek approximately 20 feet upstream of the ConocoPhillips cooling water discharge. Depth: 0-6 inches bgs.   |
| MC-SD-10                 | 06/07/10           | 1616                   | wet, dark-brown to brown sand with organic material; petroleum odor noted                                       | Sediment sample from exposed Delaware River mudflat, collected during low tide while the location was exposed; location is submerged during high tide. Depth: 6-8 inches bgs.  |
| MC-SD-13                 | 06/07/10           | 1619                   | wet, dark-brown to brown sand with organic material; petroleum odor noted                                       | Duplicate of sample MC-SD-10 for quality assurance/quality control (QA/QC) purposes.   |
| MC-SD-11                 | 06/07/10           | 1608                   | wet, dark-brown to brown sand with organic material; petroleum odor noted                                       | Sediment sample from Delaware River mudflat, collected during low tide while the location was exposed; location is submerged during high tide. Depth: 4-6 inches bgs.  |

**TABLE 1 (continued)  
SAMPLING SUMMARY**

| <b>Sample Identifier</b> | <b>Sample Date</b> | <b>Collection Time</b> | <b>Sample Description</b>  | <b>Sample Location and Depth</b>  |
|--------------------------|--------------------|------------------------|--|---|
| MC-SD-12                 | 06/07/10           | 1600                   | moist to wet, dark-brown sand with organic material; petroleum odor noted. | Sediment sample from Delaware River mudflat, collected during low tide while the location was exposed; location is submerged during high tide. Depth: 4-6 inches bgs.   |
| MC-SD-15                 | 06/07/10           | 1600                   | dark-gray to black silty sand with small amount of organic matter.         | Sediment sample from Delaware River mudflat adjacent to a small, undeveloped peninsula located upstream of the Stoney Creek/Delaware River confluence. Collected during low tide while the location was exposed; location is submerged during high tide. Depth: 0-6 inches bgs. |
| MC-SD-16                 | 06/07/10           | 1630                   | dark-gray to black, silty sand with small amount of organic material       | Sediment sample from Delaware River mudflat adjacent to a small, undeveloped peninsula located upstream of the Stoney Creek/Delaware River confluence. Collected during low tide while the location was exposed; location is submerged during high tide. Depth: 0-6 inches bgs. |
| MC-SD-17                 | 06/08/10           | 1624                   | gray clay with some organic matter   | Sediment sample from Stoney Creek at its confluence with the Delaware River. Location is submerged by the Delaware River during high tide.  |
| MC-SD-18                 | 06/08/10           | 1614                   | gray clay with some organic matter   | Sediment sample from Stoney Creek at its confluence with the Delaware River upstream of sample MC-SD-17. Location is submerged by the Delaware River during high tide.  |
| MC-SD-19                 | 06/08/10           | 1602                   | gray clay with some organic matter   | Sediment sample from Stoney Creek at its confluence with the Delaware River upstream of sample MC-SD-18. Location is submerged by the Delaware River during high tide.  |
| MC-FB-01                 | 06/08/10           | 1330                   | field blank  | Field blank for QA/QC purposes.   |
| MC-RB-01                 | 06/08/10           | 1741                   | rinsate blank (hand auger)   | Rinsate blank for QA/QC purposes.   |

Notes:

MC = Metro Container site

SS = Surface soil

SB = Subsurface soil

SD = Sediment

FB = Field blank

RB = Rinsate blank

Tetra Tech collected sediment samples MC-SD-17, MC-SD-18, and MC-SD-19 from Stoney Creek downstream of the Metro Container site, within the stream portion that forms the confluence with the Delaware River. These three samples were collected along the bank of Stoney Creek during low tide, in areas that are submerged by the Delaware River during high tide. Tetra Tech also collected four sediment samples (MC-SD-10, MC-SD-13 [duplicate of MC-SD-10], MC-SD-11, and MC-SD-12) from the Delaware River in the confluence area, which is characterized by tidal wetlands including mudflats, and two additional sediment samples (MC-SD-15 and MC-SD-16) from mudflats located further east (upstream) along the Delaware River. The mudflats are exposed during low tide and submerged during high tide.

All sediment samples were collected in accordance with Tetra Tech SOP No. 006-4, "Sediment and Sludge Sampling". At each location, sediment was collected from 0 to 6 inches bgs using a hand-held auger decontaminated in accordance with Tetra Tech SOP No. 002-3, "General Equipment Decontamination". The sediment was placed into a dedicated aluminum pan and homogenized using a dedicated plastic scoop prior to placement into the laboratory containers. All sampling procedures were documented in the field logbook (Appendix C) at the time of sample collection and the sample locations were recorded with a GPS unit (Tetra Tech 2010b).

### 3.3 Sample Management

The samples collected during this sampling event were submitted to an EPA-assigned Contract Laboratory Program (CLP) laboratory for Target Compound List (TCL) semivolatile organic compound (SVOC) and pesticide/PCB analysis and Target Analyte List (TAL) metals analysis. In addition, a portion of each sample was submitted to the EPA Region 3 Laboratory for Total Organic Carbon (TOC) analysis. Samples were handled and packaged in accordance with the Tetra Tech SOP No. 019, "Packaging and Shipping Samples" and with the Tetra Tech "Quality Assurance Project Plan (QAPP) for START". All shipping containers were properly labeled with EPA custody seals and were delivered with signed chain-of-custody forms and appropriate hazard warnings for laboratory personnel (Tetra Tech 2010b). Table 2 provides the sample shipment summary for this sampling event.

**TABLE 2**  
**SAMPLE SHIPMENT SUMMARY**

| <b>Sample Matrix</b> | <b>Analyses</b>                          | <b>Laboratory</b>  |
|----------------------|--|--|
| Soil/Sediment        | CLP TCL SVOCs<br>CLP TCL Pesticides/PCBs | KAP Technologies<br>9391 Grogans Mill Road, Suite A-2<br>The Woodlands, TX 77380   |
| Soil/Sediment        | CLP TAL Metals                           | ChemTech Consulting Group (CHEM)<br>284 Sheffield Street<br>Mountainside, NJ 07092 |
| Soil/Sediment        | Total Organic Carbon                     | EPA Region 3 Laboratory<br>701 Mapes Road<br>Ft. Meade, MD 20755-5350              |

### 3.4 Deviations from Sampling and Analysis Plan

The June 2010 sampling event was completed in accordance with Tetra Tech's May 2010 Final SAP for the Metro Container Site (Tetra Tech 2010a). The SAP proposed the collection of seven on-site surface and subsurface soil samples. As discussed in Section 3.0, the number of on-site soil samples was revised on June 7, 2010 following the initial site walk-through of proposed on-site sampling locations. The on-site areas proposed for sampling had all been regraded and filled in with gravel; therefore, the field team made a determination that a hand auger would not be capable of penetrating the surface sufficiently to collect samples. Because analytical results are available from numerous investigations that have been completed on the site, the collection of these samples was deemed unnecessary. Therefore, the only on-site samples collected during this investigation (three surface soil and two subsurface soil) were obtained from the former chemical disposal lagoon area.


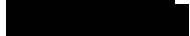
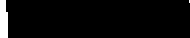

The Final SAP proposed the collection of 21 sediment samples. A total of 15 sediment samples were collected during this sampling event. The reduction in the number of sediment samples collected was due to issues regarding the accessibility of some proposed sampling locations.

There were no other deviations from the May 2010 Final SAP.

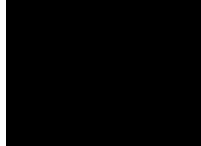
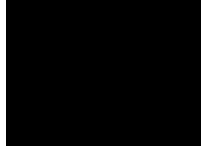
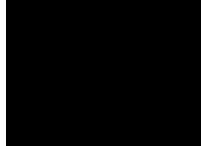
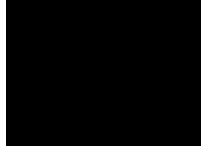
### 3.5 Personnel

The following people were present during the June 2010 Metro Container field activities:

#### June 7, 2010

|   |                                     |              |
|---|-------------------------------------|--------------|
|  | Project Manager                     | Tetra Tech   |
|  | Environmental Scientist             | Tetra Tech   |
|  | Environmental Scientist             | Tetra Tech   |
|  | Environmental Scientist             | Tetra Tech   |
| Charlene Creamer  | Site Assessment Manager             | EPA Region 3 |
| Dustin Armstrong  | Environmental Protection Specialist | PADEP        |
| Sara Pantelidou   | Geologist                           | PADEP        |

#### June 8, 2010

|   |                         |            |
|---|-------------------------|------------|
|  | Project Manager         | Tetra Tech |
|  | Environmental Scientist | Tetra Tech |
|  | Environmental Scientist | Tetra Tech |
|  | Environmental Scientist | Tetra Tech |

#### June 10, 2010

|   |                         |            |
|---|-------------------------|------------|
|  | Chemist                 | Tetra Tech |
|  | Environmental Scientist | Tetra Tech |

## **4.0 ANALYTICAL RESULTS**

The soil and sediment samples collected during this sampling event were analyzed by an EPA CLP laboratory in accordance with the EPA CLP Statement of Work for TCL SVOCs and PCBs, as well as TAL metals. In addition, a portion of each sample was analyzed for TOC by the EPA Region 3 laboratory. Analytical data summary tables for the soil, sediment, and QA/QC samples collected during this sampling event are provided in Appendix B. The analytical data reports are included in Appendix D.

### **4.1 Soil Sample Analytical Results**

The analytical results for on-site soil samples are compared to the results for the off-site background samples. As shown in Table B-1, the SVOCs reported in the soil samples consisted predominantly of polycyclic aromatic hydrocarbons (PAH). PAHs were detected above CRQLs in all soil samples including background, with the maximum background concentrations in sample MC-SS-05. Several PAHs were detected at concentrations significantly above background in soil sample MC-SB-02, which was collected within the former disposal lagoon. One PAH, benzo(g,h,i)perylene, was also detected in sample MC-SB-03 at a concentration greater than three times background. Total PAHs for soil sample MC-SS-05 was reported at 20,005 µg/kg, compared with the maximum background total of 4,367 µg/kg in soil sample MC-SS-05.

Table B-2 summarizes the PCBs detected in the soil samples. Aroclor-1260 was detected in the background soil samples at concentrations up to 230 µg/kg. In comparison, Aroclor-1260 was detected in on-site soil samples MC-SS-02, MC-SB-02, and MC-SS-03 at concentrations ranging from 750 µg/kg to 1,100 µg/kg, with the highest concentration reported for sample MC-SS-02.

As shown in Table C-3, the metals cadmium, chromium, and mercury were detected at significant concentrations in on-site soil samples. The maximum background concentrations of cadmium, chromium, and mercury were 3.3, 36.8, and 0.75 milligrams per kilogram (mg/kg), respectively. Cadmium was detected significantly above background in soil samples MC-SS-01 (13.9 mg/kg) and MC-SB-02 (18.2 mg/kg). Chromium was detected at concentrations ranging from 143 mg/kg to 184 mg/kg in soil samples MC-SS-01, MC-SS-02, and MC-SB-02. Mercury was detected significantly above background in samples MC-SS-01 (2.6 mg/kg) and MC-SB-02 (3.1 mg/kg).

### **4.2 Sediment Sample Analytical Results**

The analytical results for sediment samples collected from Stoney Creek at or downstream of the site are compared to the results for upstream sediment samples MC-SD-01, MC-SD-02, and MC-SD-03. The results for samples collected from the Delaware River downstream of the site are compared to upstream sediment samples MC-SD-15 and MC-SD-16. As shown in Table B-4, SVOCs were not detected significantly above background in any of the sediment samples. Although Aroclor-1260 was detected above background in sediment sample MC-SD-11, the result might be biased high and cannot be used to show an observed release concentration. Table B-5 shows the relative Aroclor concentrations in the sediment samples.

As shown in Table B-6, chromium and mercury were detected at concentrations significantly above background in Stoney Creek and Delaware River sediments. The chromium and mercury

concentrations of 239 mg/kg and 0.81 mg/kg in sediment sample MC-SD-05 exceeded the maximum Stoney Creek background concentrations (66.9 mg/kg in MC-SD-03 and 0.1 mg/kg in MC-SD-02, respectively). Tetra Tech collected sediment sample MC-SD-05 from a submerged portion of Stoney Creek adjacent to the Metro Container site. Mercury was detected at concentrations of 2.0 mg/kg and 1.2 mg/kg in sediment samples MC-SD-10 and MC-SD-11, respectively, significantly above the maximum background concentration of 0.21 mg/kg in upstream sediment sample MC-SD-15. Tetra Tech collected samples MC-SD-10 and MC-SD-11 from a tidal wetland within the Delaware River, at the confluence with Stoney Creek.

## **5.0 SUMMARY AND CONCLUSIONS**

The analytical results for soil samples show that several hazardous substances are present within the former disposal lagoon area and are attributable to that source at the Metro Container site. Hazardous substances detected significantly above background in source soil samples include several PAHs, Aroclor-1260, cadmium, chromium, and mercury. The sediment sample analytical results document an observed release to Stoney Creek adjacent to the site and to Delaware River downstream of the site. The hazardous substances shown at observed release concentrations and attributable to the Metro Container site include chromium and mercury.

## 6.0 REFERENCES

Pennsylvania Department of Conservation and Natural Resources (PA DCNR). 2011. PAMAP Program Data Download. Available at: <http://www.pamap.dcnr.state.pa.us/pamap/>.

MWH Americas, Inc (MWH). 2005. Site Characterization Report, Trainer Industries, LLC/Former Metro Container Corporation, Trainer, Pennsylvania. Prepared for ConocoPhillips Company. November 11, 2005.

Tetra Tech. 2007. Trip Report for the Metro Container Site, Trainer, Delaware County, Pennsylvania. Prepared for U.S. Environmental Protection Agency (EPA). November 7, 2007.

Tetra Tech. 2009. Final Trip Report for the Metro Container Site, 2008 Sediment Sampling Event, Trainer, Delaware County, Pennsylvania. Prepared for EPA. April 14, 2009.

Tetra Tech. 2010a. Final Sampling and Analysis Plan for the Metro Container Site, Trainer, Chester [sic] County, Pennsylvania. Prepared for EPA. May 21, 2010.

Tetra Tech. 2010b. Draft Trip Report for the Metro Container Site June 2010 Sampling Event, Trainer, Delaware County, Pennsylvania. Prepared for EPA. June 30, 2010.

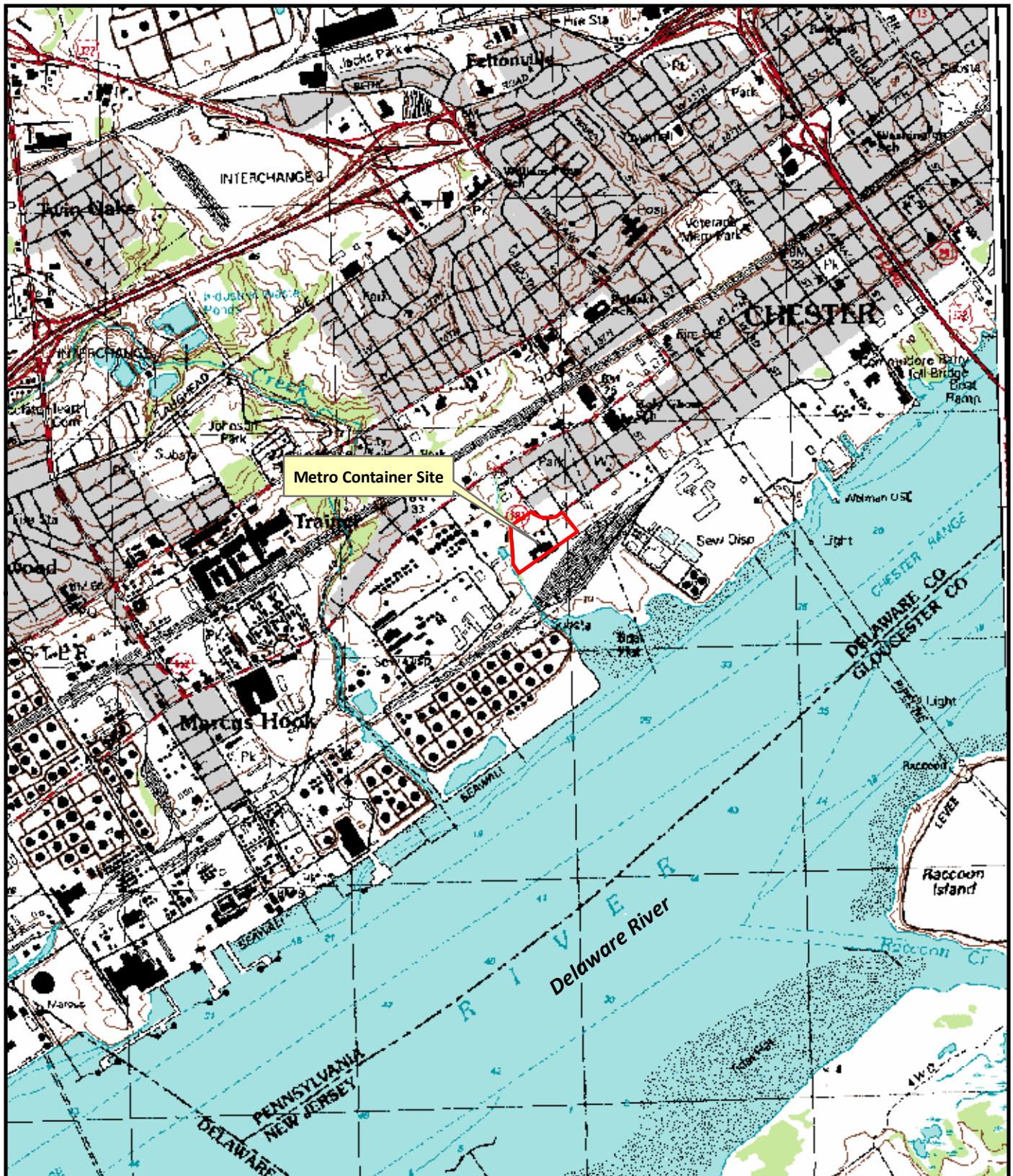
U.S. Fish & Wildlife Survey (USFWS). 2008. National Wetlands Inventory, Geospatial Wetlands Digital Data. Available from: <http://www.fws.gov/wetlands/Data/DataDownload.html>.

U.S. Geological Survey (USGS). 1995. 7.5-Minute Series Topographic Quadrangle Map, Marcus Hook, PA-NJ-DE.

## **APPENDIX A**

### **FIGURES**

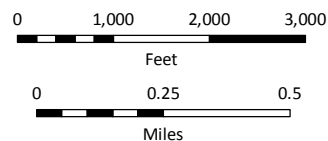
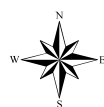




## Legend

Approximate Site Boundary

Data Sources:  
 Basemap - USGS 7.5-Minute Series Topographic Map:  
 Marcus Hook, PA-N.J.-Del. Quadrangles, 1993.



Metro Container Corporation  
 Trainer, Delaware County, Pennsylvania

**FIGURE 1**  
 Site Location Map

TDD#: WS03-10-10-001  
 Contract: EP-S3-10-05



AR103482

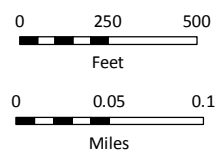
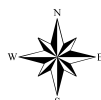




## Legend

- Approximate Site Boundary
- HRS Eligible Wetlands
- Stream
- Railroad Tracks

Data Sources:  
 Basemap - PAMAP Program, PA Department of Conservation  
 and Natural Resources, Bureau of Topographic and  
 Geologic Survey.  
 Wetlands data available from:  
<http://www.fws.gov/wetlands/Data/DataDownload.html>



Metro Container Corporation  
 Trainer, Delaware County, Pennsylvania

**FIGURE 2**  
 Site Vicinity Map

TDD#: WS03-10-10-001  
 Contract: EP-S3-10-05



AR103483

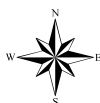




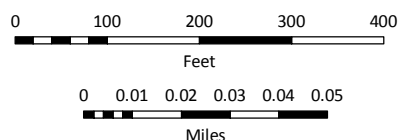
## Legend

- Approximate Site Boundary
- HRS Eligible Wetlands
- Stream
- Railroad Tracks

Note: Locations of site features are approximate.



Data Sources:  
 Basemap - PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey.  
 Wetlands data available from:  
<http://www.fws.gov/wetlands/Data/DataDownload.html>



Metro Container Corporation  
 Trainer, Delaware County, Pennsylvania

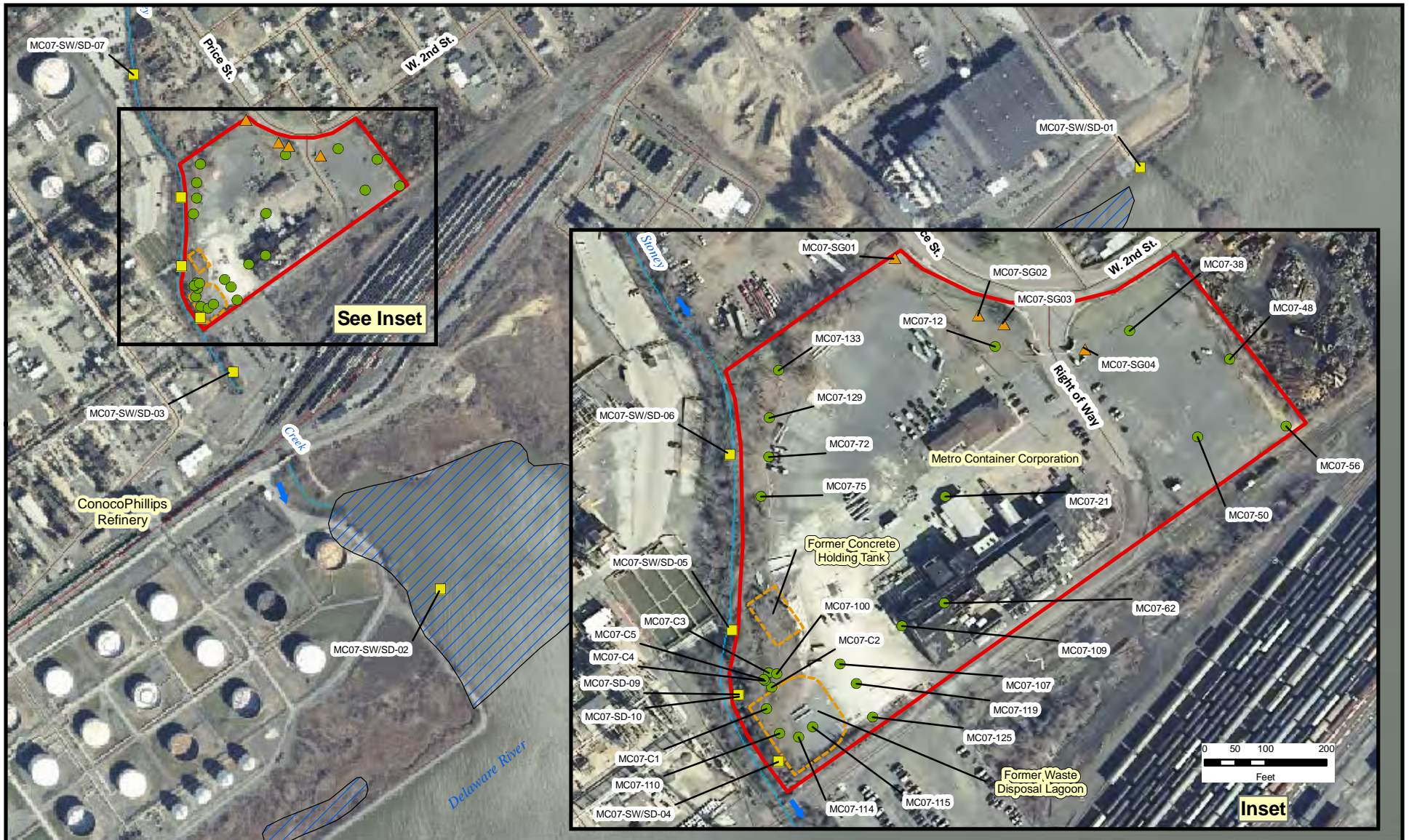
**FIGURE 3**  
**Site Layout Map**

TDD#: WS03-10-10-001  
 Contract: EP-S3-10-05



AR103484

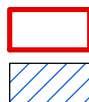




## Legend

### Sample Locations

- Surface Water/Sediment
- Soil/Groundwater
- ▲ Soil Gas



Approximate Site Boundary

HRS-Eligible Wetlands

Road

Stream

Railroad Tracks

Note: Locations of site features are approximate.

Data Sources:  
Basemap - PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey.

Tetra Tech, Eastern Area START, Region 3. Field Logbook for the Metro Container Site. November 27, 2006 to September 4, 2007.



0 200 400 600 Feet

0 0.05 0.1 Miles

Metro Container Corporation  
Trainer, Delaware County, Pennsylvania

## FIGURE 4 March 2007 Sample Location Map

TDD#: WS03-10-10-001  
Contract: EP-S3-10-05



AR103485





## Legend

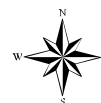
- |  |  |
|--|--|
| <span style="color: yellow;">■</span> Sediment Sample Location | <span style="color: red;">—+—+—</span> Railroad Tracks   |
| <span style="color: orange;">—</span> Composite Sampling Line  | <span style="background-color: lightblue; border: 1px solid blue; display: inline-block; width: 20px; height: 10px;"></span> HRS-Eligible Wetlands |
| <span style="color: brown;">—</span> Road                      | <span style="background-color: lightbrown; border: 1px solid brown; display: inline-block; width: 20px; height: 10px;"></span> Oil-Stained Area    |
| <span style="color: blue;">—</span> Stream                     | <span style="border: 2px solid red; display: inline-block; width: 20px; height: 10px;"></span> Approximate Site Boundary                           |

Note: Locations of site features are approximate.

Data Sources:  
 Basemap - PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey.

Wetlands data available from: <http://www.fws.gov/wetlands/Data/DataDownload.html>.

Tetra Tech, Eastern Area START, Region 3. Field Logbook for the Metro Container Site, No. 020-08-07-009. August 18 – 19, 2008.



0 100 200 300  
Feet

Metro Container Corporation  
 Trainer, Delaware County, Pennsylvania

**FIGURE 5**  
**August 2008**  
**Sample Location Map**

TDD#: WS03-11-01-001  
 Contract: EP-S3-10-05



AR103486





**APPENDIX B**

**ANALYTICAL DATA SUMMARY TABLES**

**TABLE B-1, page 1 of 2**  
**SOIL ANALYTICAL RESULTS - SVOCs**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:               |      | C45A9    |    | C45B0    |    | C4598    |   | C45B1    |    | C4599    |   | C45B5    |   | C45B2    |   | C45B9    |   |
|------------------------------|------|----------|----|----------|----|----------|---|----------|----|----------|---|----------|---|----------|---|----------|---|
| Sampling Location:           |      | MC-SS-01 |    | MC-SS-02 |    | MC-SB-02 |   | MC-SS-03 |    | MC-SB-03 |   | MC-SS-04 |   | MC-SB-04 |   | MC-SS-05 |   |
| Date Sampled:                |      | 6/7/2010 |    | 6/7/2010 |    | 6/7/2010 |   | 6/7/2010 |    | 6/7/2010 |   | 6/8/2010 |   | 6/8/2010 |   | 6/8/2010 |   |
| %Moisture:                   |      | 3        |    | 5        |    | 6        |   | 4        |    | 6        |   | 5        |   | 6        |   | 6        |   |
| Dilution Factor:             |      | 1.0      |    | 1.0      |    | 1.0/4.98 |   | 1.0      |    | 1.0      |   | 1.0      |   | 1.0      |   | 1.0      |   |
| Semivolatile Compound        | CRQL | Result   | Q  | Result   | Q  | Result   | Q | Result   | Q  | Result   | Q | Result   | Q | Result   | Q | Result   | Q |
| Benzaldehyde                 | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Phenol                       | 170  | 400      | J  |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Bis(2-chloroethyl)ether      | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 2-Chlorophenol               | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 2-Methylphenol               | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 2,2'-Oxybis(1-chloropropane) | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Acetophenone                 | 170  | 130      | J  |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 4-Methylphenol               | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| N-Nitroso-di-n-propylamine   | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Hexachloroethane             | 170  |          | UJ |          | UJ |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Nitrobenzene                 | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Isophorone                   | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Nitrophenol                | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dimethylphenol           | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Bis(2-chloroethoxy)methane   | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dichlorophenol           | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Naphthalene                  | 170  | 88       | J  |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 4-Chloroaniline              | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Hexachlorobutadiene          | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Caprolactam                  | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 4-Chloro-3-methylphenol      | 170  |          | UJ |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Methylnaphthalene          | 170  | 71       | J  |          |    |          |   |          |    |          |   |          |   | 81       | J |          |   |
| Hexachlorocyclopentadiene    | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4,6-Trichlorophenol        | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4,5-Trichlorophenol        | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 1,1'-Biphenyl                | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Chloronaphthalene          | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Nitroaniline               | 330  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Dimethylphthalate            | 170  |          |    |          |    |          |   | 100      | J  |          |   |          |   |          |   |          |   |
| 2,6-Dinitrotoluene           | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Acenaphthylene               | 170  |          |    |          |    | 110      | J |          |    |          |   |          |   |          |   |          |   |
| 3-Nitroaniline               | 330  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Acenaphthene                 | 170  |          |    |          |    | 120      | J |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dinitrophenol            | 330  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| 4-Nitrophenol                | 330  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |
| Dibenzofuran                 | 170  |          |    |          |    | 95       | J |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dinitrotoluene           | 170  |          |    |          |    |          |   |          |    |          |   |          |   |          |   |          |   |



**TABLE B-1, page 2 of 2**  
**SOIL ANALYTICAL RESULTS - SVOCs**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:             |      | C45A9    |     | C45B0    |       | C4598    |   | C45B1    |     | C4599    |     | C45B5    |     | C45B2    |   | C45B9    |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
|----------------------------|------|----------|-----|----------|-------|----------|---|----------|-----|----------|-----|----------|-----|----------|---|----------|-------|-----|-------|-------|--------|---|-------|-----|-------|-----|-------|-----|-------|---|-------|--|-----|--|-----|---|-----|-----|-----|-------|---|-----|-----|-----|-----|-----|
| Sampling Location:         |      | MC-SS-01 |     | MC-SS-02 |       | MC-SB-02 |   | MC-SS-03 |     | MC-SB-03 |     | MC-SS-04 |     | MC-SB-04 |   | MC-SS-05 |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Date Sampled:              |      | 6/7/2010 |     | 6/7/2010 |       | 6/7/2010 |   | 6/7/2010 |     | 6/7/2010 |     | 6/8/2010 |     | 6/8/2010 |   | 6/8/2010 |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| %Moisture:                 |      | 3        |     | 5        |       | 6        |   | 4        |     | 6        |     | 5        |     | 6        |   | 6        |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Dilution Factor:           |      | 1.0      |     | 1.0      |       | 1.0/4.98 |   | 1.0      |     | 1.0      |     | 1.0      |     | 1.0      |   | 1.0      |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Semivolatile Compound      | CRQL | Result   | Q   | Result   | Q     | Result   | Q | Result   | Q   | Result   | Q   | Result   | Q   | Result   | Q | Result   | Q     |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Diethylphthalate           | 170  |          | R   |          |       | 200      | J |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Fluorene                   | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| 4-Chlorophenyl-phenylether | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| 4-Nitroaniline             | 330  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| 4,6-Dinitro-2-methylphenol | 330  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| N-Nitrosodiphenylamine     | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| 1,2,4,5-Tetrachlorobenzene | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| 4-Bromophenyl-phenylether  | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Hexachlorobenzene          | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Atrazine                   | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Pentachlorophenol          | 330  | 420      |     | 360      | J     | 2,100    |   | 170      | J   | 380      |     | 120      | J   | 140      | J | 440      |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Phenanthrene               | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Anthracene                 | 130  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | J     | 580 | J     |       | 110    | J |       | 90  |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Carbazole                  | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | J     | 180 |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Di-n-butylphthalate        | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 770   |     |       |       |        |   |       |     | 750   | J   | 3,100 | +   | 240   | J | 620   |  | 450 |  | 230 | J | 830 |     |     |       |   |     |     |     |     |     |
| Fluoranthene               | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Pyrene                     | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     | 680 | 550 | 2,700 | + | 200 | 590 | 340 | 210 | 650 |
| Butylbenzylphthalate       | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     | 82  | J   |       | J | 88  |     |     |     |     |
| 3,3'-Dichlorobenzidine     | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Benzo(a)anthracene         | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     | 430 | 280 | J     |   |     |     |     |     |     |
| Chrysene                   | 170  | 480      | 380 | J        | 1,600 | 120      | J | 500      | 290 | J        | 190 | J        | 400 |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Bis(2-ethylhexyl)phthalate | 170  | 390      | 300 |          | 520   | 87       | J | 210      | 80  | J        |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Di-n-octylphthalate        | 170  | 390      |     | 340      | J     | 1,400    |   | 99       | J   | 380      |     | 270      |     | 190      | J | 300      |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Benzo(b)fluoranthene       | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Benzo(k)fluoranthene       | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 380   | 290 | J     | 1,600 | 100    | J | 370   | 220 | J     | 140 | J     | 320 |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Benzo(a)pyrene             | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 500   | 310 | J     | 1,700 | 110    | J | 600   | 170 | J     | 120 | J     | 350 |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Indeno(1,2,3-cd)pyrene     | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 340   | 250 | J     | 1,100 | 77     | J |       | 150 | J     | 110 | J     | 230 |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Dibenzo(a,h)anthracene     | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 170   | J   | 97    | J     |        |   |       | 77  | J     |     |       | 120 | J     |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| Benzo(g,h,i)perylene       | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 490   | 290 |       | 1,200 | 90     | J | 790   | 160 | J     | 120 | J     | 260 |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| 2,3,4,6-Tetrachlorophenol  | 170  |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          |       |     |       |       |        |   |       |     |       |     |       |     |       |   |       |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |
| TOTAL PAHs                 |      |          |     |          |       |          |   |          |     |          |     |          |     |          |   |          | 6,343 |     | 4,285 |       | 20,005 |   | 1,494 |     | 5,204 |     | 2,533 |     | 1,658 |   | 4,367 |  |     |  |     |   |     |     |     |       |   |     |     |     |     |     |

**Notes:**

All CRQLs and results are in micrograms per kilogram (µg/kg)  
CRQL = Contract Required Quantitation Limit  
Sample quantitation limit = (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]  
PAHs = Polycyclic aromatic hydrocarbons  
Empty cell indicates substance not reported above detection limit  
**Bold** indicates that value significantly exceeds background  
*Italics* indicates maximum background concentrations

**Data Qualifiers (Q):**

UJ = Not detected, quantitation limit may be inaccurate or imprecise.  
J = Analyte present. Reported value may not be accurate or precise.  
R = Unusable result. Analyte may or may not be present in the sample.  
Supporting data necessary to confirm result.  
+ = Result reported from dilution analysis.

**TABLE B-2**  
**SOIL ANALYTICAL RESULTS - AROCLORS**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:      |      | C45A9    |   | C45B0        |     | C4598      |     | C45B1      |   | C4599    |   | C45B5    |    | C45B2      |   | C45B9    |    |
|---------------------|------|----------|---|--------------|-----|------------|-----|------------|---|----------|---|----------|----|------------|---|----------|----|
| Sampling Location:  |      | MC-SS-01 |   | MC-SS-02     |     | MC-SB-02   |     | MC-SS-03   |   | MC-SB-03 |   | MC-SS-04 |    | MC-SB-04   |   | MC-SS-05 |    |
| Date Sampled:       |      | 6/7/2010 |   | 6/7/2010     |     | 6/7/2010   |     | 6/7/2010   |   | 6/7/2010 |   | 6/8/2010 |    | 6/8/2010   |   | 6/8/2010 |    |
| %Moisture:          |      | 3        |   | 5            |     | 6          |     | 4          |   | 6        |   | 5        |    | 6          |   | 6        |    |
| Dilution Factor:    |      | 1.0      |   | 0.99/4.97    |     | 1.0/10     |     | 0.99/4.98  |   | 1.0      |   | 1.0      |    | 0.99       |   | 1.0      |    |
| Compound            | CRQL | Result   | Q | Result       | Q   | Result     | Q   | Result     | Q | Result   | Q | Result   | Q  | Result     | Q | Result   | Q  |
| Aroclor-1016        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   | 8.5      | J  |
| Aroclor-1221        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |
| Aroclor-1232        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |
| Aroclor-1242        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |
| Aroclor-1248        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |
| Aroclor-1254        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |
| <b>Aroclor-1260</b> | 33   |          |   | <b>1,100</b> | J + | <b>930</b> | J + | <b>750</b> | + |          |   | 61       | J  | <b>230</b> |   | 4.9      | J  |
| Aroclor-1262        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |
| Aroclor-1268        | 33   |          |   |              |     |            |     |            |   |          |   |          | UJ |            |   |          | UJ |

**Notes:**

All CRQLs and results are in micrograms per kilogram (µg/kg)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]

Empty cell indicates substance not reported above detection limit

**Bold** indicates that value significantly exceeds background

*Italics* indicates maximum background concentrations

**Data Qualifiers (Q):**

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

J = Analyte present. Reported value may not be accurate or precise.

+ = Result reported from dilution analysis.

**TABLE B-3**  
**SOIL ANALYTICAL RESULTS - METALS AND TOTAL ORGANIC CARBON**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:       |      | MC45A9   |    | MC45B0   |    | MC4598   |    | MC45B1   |    | MC4599   |    | MC45B5   |   | MC45B2   |   | MC45B9   |    |
|----------------------|------|----------|----|----------|----|----------|----|----------|----|----------|----|----------|---|----------|---|----------|----|
| Sampling Location:   |      | MC-SS-01 |    | MC-SS-02 |    | MC-SB-02 |    | MC-SS-03 |    | MC-SB-03 |    | MC-SS-04 |   | MC-SB-04 |   | MC-SS-05 |    |
| Date Sampled:        |      | 6/7/2010 |    | 6/7/2010 |    | 6/7/2010 |    | 6/7/2010 |    | 6/7/2010 |    | 6/8/2010 |   | 6/8/2010 |   | 6/8/2010 |    |
| %Solids:             |      | 96.1     |    | 93.9     |    | 92.7     |    | 94.9     |    | 93.6     |    | 92.4     |   | 92.8     |   | 93.8     |    |
| Dilution Factor:     |      | 1.0      |    | 1.0      |    | 1.0      |    | 1.0      |    | 1.0      |    | 1.0      |   | 1.0      |   | 1.0      |    |
| Analyte              | CRQL | Result   | Q  | Result   | Q  | Result   | Q  | Result   | Q  | Result   | Q  | Result   | Q | Result   | Q | Result   | Q  |
| Aluminum             | 20   | 6,640    |    | 6,100    |    | 6,340    |    | 5,590    |    | 6,130    |    | 5,780    |   | 6,610    |   | 7,980    |    |
| Antimony             | 6    | 4.1      | J  | 2.6      | J  | 5.7      | L  | 0.87     | J  | 0.93     | J  | 13.3     |   | 13.2     |   | 0.43     | J  |
| Arsenic              | 1    | 3.7      |    | 5.1      |    | 3        |    | 6.9      |    | 7.2      |    | 18.3     | J | 22.5     | J | 8.6      |    |
| Barium               | 20   | 339      |    | 210      |    | 366      |    | 140      |    | 144      |    | 118      |   | 134      |   | 118      |    |
| Beryllium            | 0.5  | 1.5      |    | 1        |    | 1.5      |    | 0.36     | J  | 0.65     |    | 0.52     | J | 0.73     |   | 0.49     |    |
| Cadmium              | 0.5  | 13.9     |    | 7.3      |    | 18.2     |    | 3.4      |    | 3.1      |    | 2.6      |   | 3.3      |   | 0.82     |    |
| Calcium              | 500  | 10,900   |    | 9,460    |    | 17,000   |    | 9,390    |    | 16,000   |    | 2,530    |   | 5,930    |   | 4,610    |    |
| Chromium             | 1    | 143      |    | 184      |    | 184      |    | 64.4     |    | 53.5     |    | 36.8     |   | 35.6     |   | 24.6     |    |
| Cobalt               | 5    | 15.3     |    | 11.3     |    | 17.3     |    | 7        |    | 7.2      |    | 25.2     |   | 45       |   | 7.3      |    |
| Copper               | 2.5  | 167      | J  | 114      | J  | 158      | J  | 52.8     | J  | 56.1     | J  | 317      |   | 494      |   | 33.3     | J  |
| Iron                 | 10   | 26,800   | J  | 25,600   | J  | 23,800   | J  | 20,600   | J  | 19,700   | J  | 83,800   | J | 68,600   | J | 14,000   | J  |
| Lead                 | 1    | 665      |    | 445      |    | 851      |    | 191      |    | 183      |    | 522      | J | 592      | J | 158      |    |
| Magnesium            | 500  | 5,290    | J  | 5,260    | J  | 8,320    | J  | 4,720    | J  | 8,250    | J  | 1,320    |   | 3,310    |   | 3,200    | J  |
| Manganese            | 1.5  | 377      | K  | 481      | K  | 312      | K  | 294      | K  | 273      | K  | 616      |   | 1,320    |   | 401      | K  |
| Mercury              | 0.1  | 2.6      |    | 1.6      |    | 3.1      |    | 0.9      |    | 0.89     |    | 0.35     |   | 0.22     |   | 0.75     |    |
| Nickel               | 4    | 33.5     |    | 28       |    | 29.9     |    | 19.3     |    | 19.6     |    | 29.4     |   | 39.3     |   | 17.5     |    |
| Potassium            | 500  | 1,810    |    | 1,360    |    | 1,680    |    | 1,130    |    | 990      |    | 967      |   | 928      |   | 1,250    |    |
| Selenium             | 3.5  | 3.9      |    | 3.4      |    | 3.5      |    | 3.3      |    | 2.6      | J  | 11.3     | L | 9.3      | L | 2.2      | J  |
| Silver               | 1    | 1.6      |    | 1.1      |    | 2        |    | 0.57     | J  | 0.43     | J  | 1.8      |   | 1.9      |   | 0.3      | J  |
| Sodium               | 500  | 238      | B  | 193      | B  | 274      | B  | 185      | B  | 189      | B  | 143      | J | 136      | J | 103      | B  |
| Thallium             | 2.5  |          | UL |          | UL |          | UL |          | UL |          | UL | 0.52     | B | 0.43     | B |          | UL |
| Vanadium             | 5    | 26.7     |    | 35.8     |    | 24.7     |    | 28.2     |    | 28.4     |    | 31       |   | 26.9     |   | 33.4     |    |
| Zinc                 | 6    | 1,220    | J  | 803      | J  | 1,160    | J  | 626      | J  | 543      | J  | 465      |   | 564      |   | 153      | J  |
| Total Organic Carbon | N/A  | 42,900   |    | 63,200   |    | 52,600   |    | 47,800   |    | 26,000   |    | 89,900   |   | 184,000  |   | 35,300   |    |

**Notes:**

All CRQLs and results are in milligrams per kilogram (mg/kg)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor) / (%Solids/ 100)

Empty cell indicates substance not reported above detection limit

**Bold** indicates that value significantly exceeds background

*Italics* indicates maximum background concentrations

**Data qualifiers (Q):**

J = Analyte present. Reported value may not be accurate or precise.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

B = Not detected substantially above the level reported in laboratory or field blanks.

UL = Not detected, quantitation limit is probably higher.

**TABLE B-4, page 1 of 4**  
**SOIL ANALYTICAL RESULTS - SVOCs**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:<br>Sampling Location:<br>Date Sampled:<br>%Moisture:<br>Dilution Factor: |      | C45C5<br>MC-SD-01<br>6/10/2010<br>28<br>1.0 |   | C45B3<br>MC-SD-02<br>6/8/2010<br>35<br>1.0 |   | C45B4<br>MC-SD-03<br>6/8/2010<br>26<br>1.0 |   | C45A0<br>MC-SD-05<br>6/7/2010<br>19<br>1.0 |    | C45A1<br>MC-SD-06<br>6/7/2010<br>33<br>1.0 |   | C45A2<br>MC-SD-07<br>6/7/2010<br>21<br>1.0 |    | C45A3<br>MC-SD-10<br>6/7/2010<br>39<br>0.99 |   | C45A6<br>MC-SD-13<br>6/7/2010<br>39<br>0.99 |    |
|---|------|---|---|--|---|--|---|--|----|--|---|--|----|---|---|---|----|
| Semivolatile Compound   | CRQL | Result                                      | Q | Result                                     | Q | Result                                     | Q | Result                                     | Q  | Result                                     | Q | Result                                     | Q  | Result                                      | Q | Result                                      | Q  |
| Benzaldehyde  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| Phenol  | 170  |   |   | 300  |   | 210  | J |  | UJ |  |   |  | UJ |   |   |   | UJ |
| Bis(2-chloroethyl)ether   | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| 2-Chlorophenol  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| 2-Methylphenol  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| 2,2'-Oxybis(1-chloropropane)  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| Acetophenone  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| 4-Methylphenol  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| N-Nitroso-di-n-propylamine  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| Hexachloroethane  | 170  |   |   |  |   |  |   |  | UJ |  |   |  | UJ |   |   |   | UJ |
| Nitrobenzene  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| Isophorone  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2-Nitrophenol   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,4-Dimethylphenol  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| Bis(2-chloroethoxy)methane  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,4-Dichlorophenol  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| Naphthalene   | 170  |   |   | 120  | J |  |   |  |    | 100  | J |  |    |   |   |   |    |
| 4-Chloroaniline   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| Hexachlorobutadiene   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| Caprolactam   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 4-Chloro-3-methylphenol   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2-Methylnaphthalene   | 170  |   |   |  |   |  |   | 110  | J  | 160  | J |  |    | 150   | J |   |    |
| Hexachlorocyclopentadiene   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,4,6-Trichlorophenol   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,4,5-Trichlorophenol   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 1,1'-Biphenyl   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2-Chloronaphthalene   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2-Nitroaniline  | 330  |   |   |  |   |  |   |  | R  |  |   |  |    |   |   |   |    |
| Dimethylphthalate   | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,6-Dinitrotoluene  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| Acenaphthylene  | 170  | 120   | J |  |   | 140  | J |  |    |  |   | 91   | J  |   |   |   |    |
| 3-Nitroaniline  | 330  |   |   |  |   |  |   |  | R  |  |   |  |    |   |   |   |    |
| Acenaphthene  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,4-Dinitrophenol   | 330  |   |   |  |   |  |   |  | R  |  |   |  |    |   |   |   |    |
| 4-Nitrophenol   | 330  |   |   |  |   |  |   |  | R  |  |   |  |    |   |   |   |    |
| Dibenzofuran  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |
| 2,4-Dinitrotoluene  | 170  |   |   |  |   |  |   |  |    |  |   |  |    |   |   |   |    |

**TABLE B-4, page 2 of 4**  
**SOIL ANALYTICAL RESULTS - SVOCs**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:<br>Sampling Location:<br>Date Sampled:<br>%Moisture:<br>Dilution Factor: |      | C45C5<br>MC-SD-01<br>6/10/2010<br>28<br>1.0 |   | C45B3<br>MC-SD-02<br>6/8/2010<br>35<br>1.0 |   | C45B4<br>MC-SD-03<br>6/8/2010<br>26<br>1.0 |   | C45A0<br>MC-SD-05<br>6/7/2010<br>19<br>1.0 |   | C45A1<br>MC-SD-06<br>6/7/2010<br>33<br>1.0 |   | C45A2<br>MC-SD-07<br>6/7/2010<br>21<br>1.0 |   | C45A3<br>MC-SD-10<br>6/7/2010<br>39<br>0.99 |   | C45A6<br>MC-SD-13<br>6/7/2010<br>39<br>0.99 |   |
|---|------|---|---|--|---|--|---|--|---|--|---|--|---|---|---|---|---|
| Semivolatile Compound   | CRQL | Result                                      | Q | Result                                     | Q | Result                                     | Q | Result                                     | Q | Result                                     | Q | Result                                     | Q | Result                                      | Q | Result                                      | Q |
| Diethylphthalate  | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| Fluorene  | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| 4-Chlorophenyl-phenylether  | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| 4-Nitroaniline  | 330  |   |   |  |   |  |   |  | R |  |   |  |   |   |   |   |   |
| 4,6-Dinitro-2-methylphenol  | 330  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| N-Nitrosodiphenylamine  | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| 1,2,4,5-Tetrachlorobenzene  | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| 4-Bromophenyl-phenylether   | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| Hexachlorobenzene   | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| Atrazine  | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| Pentachlorophenol   | 330  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| Phenanthrene  | 170  | 360   |   | 640  | J | 650  |   | 250  |   | 300  |   | 580  |   | 360   |   | 190   | J |
| Anthracene  | 170  |   |   | 170  | J | 200  | J |  |   | 100  | J | 140  | J |   |   |   |   |
| Carbazole   | 170  |   |   | 110  | J | 130  | J |  |   |  |   |  |   |   |   |   |   |
| Di-n-butylphthalate   | 170  | 93  | J |  |   | 110  | J |  |   |  |   |  |   |   |   |   |   |
| Fluoranthene  | 170  | 1,200                                       |   | 1,200                                      | J | 2,100                                      |   | 430  |   | 460  |   | 1,100                                      |   | 180   | J | 390   |   |
| Pyrene  | 170  | 770   |   | 1,000                                      |   | 1,200                                      |   | 360  |   | 410  |   | 800  |   | 210   | J | 320   |   |
| Butylbenzylphthalate  | 170  |   |   |  |   | 120  | J |  |   |  |   |  |   |   |   |   |   |
| 3,3'-Dichlorobenzidine  | 170  |   |   |  |   |  |   |  |   |  |   | 88   | J |   |   |   |   |
| Benzo(a)anthracene  | 170  | 490   |   | 640  | J | 820  |   | 140  | J | 270  |   | 450  |   | 130   | J | 210   | J |
| Chrysene  | 170  | 520   | J | 720  | J | 930  | J | 140  | J | 300  |   | 480  |   | 160   | J | 220   | J |
| Bis(2-ethylhexyl)phthalate  | 170  | 690   |   | 580  |   | 410  |   |  |   |  |   | 300  |   | 350   |   | 220   | J |
| Di-n-octylphthalate   | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| Benzo(b)fluoranthene  | 170  | 420   |   | 610  | J | 790  |   |  |   | 280  |   | 410  |   | 130   | J | 150   | J |
| Benzo(k)fluoranthene  | 170  | 510   | J | 570  | J | 640  | J |  |   | 210  | J | 370  |   |   |   | 170   | J |
| Benzo(a)pyrene  | 170  | 500   | J | 740  | J | 850  | J | 91   | J | 380  |   | 290  |   | 150   | J | 210   | J |
| Indeno(1,2,3-cd)pyrene  | 170  | 350   |   | 510  | J | 560  |   |  |   |  |   | 300  |   |   |   | 120   | J |
| Dibenzo(a,h)anthracene  | 170  | 130   | J | 290  | J | 280  |   |  |   |  |   |  |   |   |   |   |   |
| Benzo(g,h,i)perylene  | 170  | 360   |   | 810  |   | 730  |   |  |   | 460  |   | 300  |   | 120   | J | 150   | J |
| 2,3,4,6-Tetrachlorophenol   | 170  |   |   |  |   |  |   |  |   |  |   |  |   |   |   |   |   |
| TOTAL PAHs  |      | 6,063                                       |   | 9,046                                      |   | 10,897                                     |   | 1,521                                      |   | 3,430                                      |   | 5,699                                      |   | 1,940                                       |   | 2,350                                       |   |

**Notes:**

All CRQLs and results are in micrograms per kilogram (µg/kg)  
CRQL = Contract Required Quantitation Limit  
Sample quantitation limit = (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]  
PAHs = Polycyclic aromatic hydrocarbons  
Empty cell indicates substance not reported above detection limit

**Data Qualifiers (Q):**

UJ = Not detected, quantitation limit may be inaccurate or imprecise.  
J = Analyte present. Reported value may not be accurate or precise.  
R = Unusable result. Analyte may not be present in the sample.  
Supporting data necessary to confirm result.

**TABLE B-4, page 3 of 4**  
**SOIL ANALYTICAL RESULTS - SVOCs**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:               |      | C45A4    |   | C45A5    |   | C45A7    |    | C45A8    |   | C45B6    |   | C45B7    |   | C45B8    |   |
|------------------------------|------|----------|---|----------|---|----------|----|----------|---|----------|---|----------|---|----------|---|
| Sampling Location:           |      | MC-SD-11 |   | MC-SD-12 |   | MC-SD-15 |    | MC-SD-16 |   | MC-SD-17 |   | MC-SD-18 |   | MC-SD-19 |   |
| Date Sampled:                |      | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |    | 6/7/2010 |   | 6/8/2010 |   | 6/8/2010 |   | 6/8/2010 |   |
| %Moisture:                   |      | 44       |   | 35       |   | 43       |    | 51       |   | 43       |   | 48       |   | 40       |   |
| Dilution Factor:             |      | 1.0      |   | 1.0      |   | 1.0      |    | 1.0      |   | 1.0      |   | 0.99     |   | 1.0      |   |
| Semivolatile Compound        | CRQL | Result   | Q | Result   | Q | Result   | Q  | Result   | Q | Result   | Q | Result   | Q | Result   | Q |
| Benzaldehyde                 | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Phenol                       | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Bis(2-chloroethyl)ether      | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 2-Chlorophenol               | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 2-Methylphenol               | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 2,2'-Oxybis(1-chloropropane) | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Acetophenone                 | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| 4-Methylphenol               | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| N-Nitroso-di-n-propylamine   | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Hexachloroethane             | 170  |          |   |          |   |          | UJ |          |   |          |   |          |   |          |   |
| Nitrobenzene                 | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Isophorone                   | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Nitrophenol                | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dimethylphenol           | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Bis(2-chloroethoxy)methane   | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dichlorophenol           | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Naphthalene                  | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 4-Chloroaniline              | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Hexachlorobutadiene          | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Caprolactam                  | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 4-Chloro-3-methylphenol      | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Methylnaphthalene          | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Hexachlorocyclopentadiene    | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4,6-Trichlorophenol        | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4,5-Trichlorophenol        | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 1,1'-Biphenyl                | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Chloronaphthalene          | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2-Nitroaniline               | 330  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Dimethylphthalate            | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,6-Dinitrotoluene           | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Acenaphthylene               | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 3-Nitroaniline               | 330  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Acenaphthene                 | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dinitrophenol            | 330  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 4-Nitrophenol                | 330  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| Dibenzofuran                 | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |
| 2,4-Dinitrotoluene           | 170  |          |   |          |   |          |    |          |   |          |   |          |   |          |   |

**TABLE B-4, page 4 of 4**  
**SOIL ANALYTICAL RESULTS - SVOCs**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

|                            |          |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
|----------------------------|----------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|--------|---|
| Sample Number:             | C45A4    | C45A5    |   | C45A7    |   | C45A8    |   | C45B6    |   | C45B7    |   | C45B8    |   |        |   |
| Sampling Location:         | MC-SD-11 | MC-SD-12 |   | MC-SD-15 |   | MC-SD-16 |   | MC-SD-17 |   | MC-SD-18 |   | MC-SD-19 |   |        |   |
| Date Sampled:              | 6/7/2010 | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |   | 6/8/2010 |   | 6/8/2010 |   | 6/8/2010 |   |        |   |
| %Moisture:                 | 44       | 35       |   | 43       |   | 51       |   | 43       |   | 48       |   | 40       |   |        |   |
| Dilution Factor:           | 1.0      | 1.0      |   | 1.0      |   | 1.0      |   | 1.0      |   | 0.99     |   | 1.0      |   |        |   |
| Semivolatile Compound      | CRQL     | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result | Q |
| Diethylphthalate           | 170      |          |   |          |   |          | J |          |   |          |   |          |   |        |   |
| Fluorene                   | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 4-Chlorophenyl-phenylether | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 4-Nitroaniline             | 330      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 4,6-Dinitro-2-methylphenol | 330      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| N-Nitrosodiphenylamine     | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 1,2,4,5-Tetrachlorobenzene | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 4-Bromophenyl-phenylether  | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Hexachlorobenzene          | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Atrazine                   | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Pentachlorophenol          | 330      | 550      |   |          |   | 210      | J |          |   |          |   |          |   |        |   |
| Phenanthrene               | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Anthracene                 | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Carbazole                  | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Di-n-butylphthalate        | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Fluoranthene               | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Pyrene                     | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Butylbenzylphthalate       | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 3,3'-Dichlorobenzidine     | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Benzo(a)anthracene         | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Chrysene                   | 170      | 320      |   |          |   | 160      | J |          |   |          |   |          |   |        |   |
| Bis(2-ethylhexyl)phthalate | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Di-n-octylphthalate        | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Benzo(b)fluoranthene       | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Benzo(k)fluoranthene       | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Benzo(a)pyrene             | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Indeno(1,2,3-cd)pyrene     | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Dibenzo(a,h)anthracene     | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| Benzo(g,h,i)perylene       | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| 2,3,4,6-Tetrachlorophenol  | 170      |          |   |          |   |          |   |          |   |          |   |          |   |        |   |
| TOTAL PAHs                 |          | 4,000    |   | 2,410    |   | 2,004    |   | 202      |   | 44       |   | 49       |   | 41     |   |

**Notes:**

All CRQLs and results are in micrograms per kilogram (µg/kg)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]

PAHs = Polycyclic aromatic hydrocarbons

Empty cell indicates substance not reported above detection limit

**Data Qualifiers (Q):**

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

J = Analyte present. Reported value may not be accurate or precise.

R = Unusable result. Analyte may not be present in the sample.

Supporting data necessary to confirm result.

**TABLE B-5**  
**SEDIMENT ANALYTICAL RESULTS - AROCLORS**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:     |      | C45C5     |   | C45B3    |   | C45B4    |   | C45A0    |   | C45A1    |   | C45A2    |   | C45A3    |   | C45A6    |   |
|--------------------|------|-----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Sampling Location: |      | MC-SD-01  |   | MC-SD-02 |   | MC-SD-03 |   | MC-SD-05 |   | MC-SD-06 |   | MC-SD-07 |   | MC-SD-10 |   | MC-SD-13 |   |
| Date Sampled:      |      | 6/10/2010 |   | 6/8/2010 |   | 6/8/2010 |   | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |   |
| %Moisture:         |      | 28        |   | 35       |   | 26       |   | 19       |   | 33       |   | 21       |   | 39       |   | 39       |   |
| Dilution Factor:   |      | 1.0       |   | 1.0      |   | 0.99     |   | 0.99     |   | 0.99     |   | 1.0      |   | 1.0      |   | 1.0      |   |
| Compound           | CRQL | Result    | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q |
| Aroclor-1016       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1221       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1232       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1242       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1248       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1254       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1260       | 33   |           |   |          |   |          |   |          |   |          |   |          |   | 64       | J | 27       | J |
| Aroclor-1262       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1268       | 33   |           |   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |

|                    |      |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
|--------------------|------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| Sample Number:     |      | C45A4    |   | C45A5    |   | C45A7    |   | C45A8    |   | C45B6    |   | C45B7    |   | C45B8    |   |
| Sampling Location: |      | MC-SD-11 |   | MC-SD-12 |   | MC-SD-15 |   | MC-SD-16 |   | MC-SD-17 |   | MC-SD-18 |   | MC-SD-19 |   |
| Date Sampled:      |      | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |   | 6/7/2010 |   | 6/8/2010 |   | 6/8/2010 |   | 6/8/2010 |   |
| %Moisture:         |      | 44       |   | 35       |   | 43       |   | 51       |   | 43       |   | 48       |   | 40       |   |
| Dilution Factor:   |      | 1.0      |   | 1.0      |   | 0.99     |   | 1.0      |   | 1.0      |   | 1.0      |   | 0.99     |   |
| Compound           | CRQL | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q |
| Aroclor-1016       | 33   | 140      | J | 27       | J |          |   |          | J |          |   |          |   |          |   |
| Aroclor-1221       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1232       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1242       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1248       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1254       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1260       | 33   |          |   |          |   |          |   | 37       |   |          |   |          |   |          |   |
| Aroclor-1262       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |
| Aroclor-1268       | 33   |          |   |          |   |          |   |          |   |          |   |          |   |          |   |

**Notes:**

All CRQLs and results are in micrograms per kilogram (µg/kg)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]

Empty cell indicates substance not reported above detection limit

*Italics* indicates maximum background concentrations

**Data Qualifiers (Q):**

J = Analyte present. Reported value may not be accurate or precise.



**TABLE B-6, page 1 of 2**  
**SEDIMENT ANALYTICAL RESULTS - METALS AND TOTAL ORGANIC CARBON**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:<br>Sampling Location:<br>Date Sampled:<br>% Solids:<br>Dilution Factor: |      | MC45C5<br>MC-SD-01<br>6/10/2010<br>76.7<br>1.0 |   | MC45B3<br>MC-SD-02<br>6/8/2010<br>70.0<br>1.0 |   | MC45B4<br>MC-SD-03<br>6/8/2010<br>70.0<br>1.0 |   | MC45A0<br>MC-SD-05<br>6/7/2010<br>76.7<br>1.0 |    | MC45A1<br>MC-SD-06<br>6/7/2010<br>73.5<br>1.0 |    | MC45A2<br>MC-SD-07<br>6/7/2010<br>79.3<br>1.0 |    | MC45A3<br>MC-SD-10<br>6/7/2010<br>58.3<br>1.0 |    | MC45A6<br>MC-SD-13<br>6/7/2010<br>53.5<br>1.0 |    |
|--|------|--|---|---|---|---|---|---|----|---|----|---|----|---|----|---|----|
| Analyte  | CRQL | Result   | Q | Result  | Q | Result  | Q | Result  | Q  | Result  | Q  | Result  | Q  | Result  | Q  | Result  | Q  |
| Aluminum   | 20   | 6,430  |   | 6,600   |   | 6,390   |   | 7,480   |    | 5,140   |    | 4,030   |    | 8,860   |    | 11,900  |    |
| Antimony   | 6    | 0.42   | J | 0.96  | J | 0.89  | J | 0.57  | J  |   | UL | 0.29  | J  | 0.55  | J  |   | UL |
| Arsenic  | 1    | 4.2  | J | 2.7   | J | 5.9   | J | 9.2   |    | 2.7   |    | 3   |    | 7.6   |    | 10.1  |    |
| Barium   | 20   | 99.7   |   | 101   |   | 173   |   | 3750  |    | 66.7  |    | 412   |    | 147   |    | 94.1  |    |
| Beryllium  | 0.5  | 0.68   |   | 0.57  | J | 0.37  | J | 2.1   |    | 0.53  | J  | 0.6   |    | 0.6   |    | 0.84  |    |
| Cadmium  | 0.5  | 0.95   |   | 0.97  |   | <i>1.1</i>                                    |   | 2.7   |    | 0.2   | J  | 0.67  |    | 1.5   |    | 0.55  | J  |
| Calcium  | 500  | 9,770  |   | 4,030   |   | <i>5,830</i>                                  |   | 21,100  |    | 863   |    | 9,940   |    | 3,180   |    | 2,520   |    |
| <b>Chromium</b>  | 1    | 36.1   |   | 34.1  |   | <i>66.9</i>                                   |   | <b>239</b>                                    |    | 17.5  |    | 50.2  |    | 37.8  |    | 67.8  |    |
| Cobalt   | 5    | 5.7  |   | 8.8   |   | 6   | J | 7.8   |    | 7.6   |    | 3.9   | J  | 8.6   |    | 10.4  |    |
| Copper   | 2.5  | 54   |   | 58  |   | 66.4  |   | 1080  | J  | 9.3   | J  | 41.9  | J  | 126   | J  | 31.2  | J  |
| Iron   | 10   | 18,200   | J | 16,600  | J | 17,700  | J | 20,100  | J  | 8,630   | J  | 13,900  | J  | 17,300  | J  | 18,300  | J  |
| Lead   | 1    | 89.3   | J | 99.1  | J | 82.4  | J | 283   |    | 18.3  |    | 56.6  |    | 106   |    | 54.7  |    |
| Magnesium  | 500  | 6,540  |   | 4,290   |   | 5,340   |   | 4,800   | J  | 1,540   | J  | 5,440   | J  | 2,780   | J  | 3,580   | J  |
| Manganese  | 1.5  | 194  |   | 292   |   | 210   |   | 653   | K  | 76  | K  | 260   | K  | 461   | K  | 295   | K  |
| <b>Mercury</b>   | 0.1  |  |   | <i>0.1</i>                                    | J | 0.054   | J | <b>0.81</b>                                   |    | 0.082   | J  | 0.16  |    | <b>2.0</b>                                    |    | 0.49  |    |
| Nickel   | 4    | 39.3   |   | 36.7  |   | 33.8  |   | 54.7  |    | 30.8  |    | 16.2  |    | 31  |    | 22.9  |    |
| Potassium  | 500  | 1,800  |   | 1,770   |   | 1,490   |   | 962   |    | 584   |    | 729   |    | 724   |    | 880   |    |
| Selenium   | 3.5  | 3.1  | J | 2.9   | J | 4.4   | J | 3.4   |    | 1.5   | J  | 2.2   | J  | 2.6   | J  | 3.1   | J  |
| Silver   | 1    | 0.31   | J | 0.45  | J | 0.27  | J | 0.68  | J  | 0.12  | J  | 0.22  | J  | 1.5   |    | 0.25  | J  |
| Sodium   | 500  | 229  | J | 158   | J | 214   | J | 500   | B  | 219   | B  | 171   | B  | 244   | B  | 321   | B  |
| Thallium   | 2.5  |  |   |   |   |   |   |   | UL |   | UL |   | UL |   | UL |   | UL |
| Vanadium   | 5    | 26.5   |   | 28.4  |   | 30  |   | 62.5  |    | 17.8  |    | 19.7  |    | 42.5  |    | 31.3  |    |
| Zinc   | 6    | 287  |   | 277   |   | 263   |   | 546   | J  | 33.3  | J  | 143   | J  | 255   | J  | 97.7  | J  |
| Total Organic Carbon   | N/A  | 54,200   |   | 56,400  |   | 68,700  |   | 74,600  |    | 11,600  |    | 38,300  |    | 9,200   |    | 13,000  |    |

**Notes:**

All CRQLs and results are in milligrams per kilogram (mg/kg)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor) / (%Solids/ 100)

Empty cell indicates substance not reported above detection limit

**Bold** indicates that value significantly exceeds background

*Italics* indicates maximum background concentrations

**Data qualifiers (Q):**

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

B = Not detected substantially above the level reported in laboratory or field blanks.

UL = Not detected, quantitation limit is probably higher.

**TABLE B-6, page 2 of 2**  
**SEDIMENT ANALYTICAL RESULTS - METALS AND TOTAL ORGANIC CARBON**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

| Sample Number:<br>Sampling Location:<br>Date Sampled:<br>% Solids:<br>Dilution Factor: |      | MC45A4<br>MC-SD-11<br>6/7/2010<br>49.0<br>1.0 |    | MC45A5<br>MC-SD-12<br>6/7/2010<br>64.2<br>1.0 |    | MC45A7<br>MC-SD-15<br>6/7/2010<br>72.0<br>1.0 |    | MC45A8<br>MC-SD-16<br>6/7/2010<br>48.3<br>1.0 |    | MC45B6<br>MC-SD-17<br>6/8/2010<br>56.5<br>1.0 |    | MC45B7<br>MC-SD-18<br>6/8/2010<br>51.7<br>1.0 |    | MC45B8<br>MC-SD-19<br>6/8/2010<br>60.5<br>1.0 |    |
|--|------|---|----|---|----|---|----|---|----|---|----|---|----|---|----|
| Analyte  | CRQL | Result  | Q  | Result  | Q  | Result  | Q  | Result  | Q  | Result  | Q  | Result  | Q  | Result  | Q  |
| Aluminum   | 20   | 11,000  |    | 12,100  |    | 5,500   |    | 6,940   |    | 10,800  |    | 14,600  |    | 12,800  |    |
| Antimony   | 6    | 1.3   | J  | 0.33  | J  | 0.64  | J  | 0.33  | J  |   | UL |   | UL |   | UL |
| Arsenic  | 1    | 13.1  |    | 4.6   |    | 5.6   |    | 6.5   |    | 5.4   |    | 6.4   |    | 5.9   |    |
| Barium   | 20   | 203   |    | 104   |    | 66.5  |    | 95.4  |    | 138   |    | 104   |    | 103   |    |
| Beryllium  | 0.5  | 0.87  |    | 0.77  |    | 0.36  | J  | 0.66  | J  | 0.98  |    | 0.82  | J  | 0.81  |    |
| Cadmium  | 0.5  | 2.1   |    | 0.81  |    | <i>0.86</i>                                   |    | 0.061   | J  | 0.54  | J  | 0.62  | J  | 0.49  | J  |
| Calcium  | 500  | 3,220   |    | 2,020   |    | 1,890   |    | 3,010   |    | 2,430   |    | 2,240   |    | 1,840   |    |
| <b>Chromium</b>  | 1    | 49.1  |    | 35.2  |    | 17  |    | 27.2  |    | 31.8  |    | 41  |    | 36.5  |    |
| Cobalt   | 5    | 11.8  |    | 11.1  |    | 5.4   | J  | 8.3   | J  | 8.8   |    | 11.3  |    | 9.7   |    |
| Copper   | 2.5  | 137   | J  | 32.2  | J  | 54.1  | J  | 33.3  | J  | 18.2  | J  | 9.1   | J  | 8.8   | J  |
| Iron   | 10   | 20,600  | J  | 25,900  | J  | 9,900   | J  | 16,500  | J  | 17,100  | J  | 24,000  | J  | 18,000  | J  |
| Lead   | 1    | 153   |    | 32.8  |    | 49.6  |    | 39.8  |    | 20.4  |    | 11.4  |    | 10.6  |    |
| Magnesium  | 500  | 3,480   | J  | 4,260   | J  | 2,050   | J  | 3,040   | J  | 3,640   | J  | 5,750   | J  | 4,270   | J  |
| Manganese  | 1.5  | 604   | K  | 390   | K  | 278   | K  | 732   | K  | 331   | K  | 359   | K  | 223   | K  |
| <b>Mercury</b>   | 0.1  | <b>1.2</b>                                    |    |   |    | <i>0.21</i>                                   |    | 0.21  | J  |   |    |   |    |   |    |
| Nickel   | 4    | 38.2  |    | 23.3  |    | 11.1  |    | 16.4  |    | 20.5  |    | 24.8  |    | 22.6  |    |
| Potassium  | 500  | 1,080   |    | 803   |    | 391   | J  | 918   | J  | 1,040   |    | 1,480   |    | 1,120   |    |
| Selenium   | 3.5  | 4.3   | J  | 3.5   | J  | 1.9   | J  | 2.7   | J  | 3   | J  | 4.1   | J  | 3   | J  |
| Silver   | 1    | 1.2   | J  | 0.42  | J  | 0.39  | J  | 0.59  | J  | 0.21  | J  | 0.33  | J  | 0.17  | J  |
| Sodium   | 500  | 290   | B  | 301   | B  | 221   | B  | 299   | B  | 292   | B  | 386   | B  | 325   | B  |
| Thallium   | 2.5  |   | UL |   | UL |   | UL |   | UL |   | UL |   | UL |   | UL |
| Vanadium   | 5    | 56.1  |    | 35.4  |    | 12.2  |    | 20.5  |    | 28.7  |    | 37.1  |    | 33.8  |    |
| Zinc   | 6    | 355   | J  | 112   | J  | 187   | J  | 179   | J  | 108   | J  | 66.2  | J  | 55.8  | J  |
| Total Organic Carbon   | N/A  | 20,400  |    | 9,910   |    | 18,100  |    | 18,500  |    | 26,800  |    | 39,600  |    | 14,700  |    |

**Notes:**

All CRQLs and results are in milligrams per kilogram (mg/kg)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor) / (%Solids/ 100)

Empty cell indicates substance not reported above detection limit

**Bold** indicates that value significantly exceeds background

*Italics* indicates maximum background concentrations

**Data qualifiers (Q):**

J = Analyte present. Reported value may not be accurate or precise.

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UL = Not detected, quantitation limit is probably higher.

**TABLE B-7, page 1 of 2**  
**ANALYTICAL RESULTS - FIELD AND RINSATE BLANKS**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

**SEMIVOLATILE ORGANIC COMPOUNDS**

|                              |      |          |   |          |   |
|------------------------------|------|----------|---|----------|---|
| Sample Number:               |      | C45C3    |   | C45C4    |   |
| Sampling Location:           |      | MC-FB-01 |   | MC-RB-01 |   |
| Matrix:                      |      | Aqueous  |   | Aqueous  |   |
| Date Sampled:                |      | 6/8/2010 |   | 6/8/2010 |   |
| Dilution Factor:             |      | 1.0      |   | 1.0      |   |
| Semivolatile Compound        | CRQL | Result   | Q | Result   | Q |
| Benzaldehyde                 | 5.0  |          |   |          |   |
| Phenol                       | 5.0  |          |   |          |   |
| Bis(2-chloroethyl)ether      | 5.0  |          |   |          |   |
| 2-Chlorophenol               | 5.0  |          |   |          |   |
| 2-Methylphenol               | 5.0  |          |   |          |   |
| 2,2'-Oxybis(1-chloropropane) | 5.0  |          |   |          |   |
| Acetophenone                 | 5.0  |          |   |          |   |
| 4-Methylphenol               | 5.0  |          |   |          |   |
| N-Nitroso-di-n-propylamine   | 5.0  |          |   |          |   |
| Hexachloroethane             | 5.0  |          |   |          |   |
| Nitrobenzene                 | 5.0  |          |   |          |   |
| Isophorone                   | 5.0  |          |   |          |   |
| 2-Nitrophenol                | 5.0  |          |   |          |   |
| 2,4-Dimethylphenol           | 5.0  |          |   |          |   |
| Bis(2-chloroethoxy)methane   | 5.0  |          |   |          |   |
| 2,4-Dichlorophenol           | 5.0  |          |   |          |   |
| Naphthalene                  | 5.0  |          |   |          |   |
| 4-Chloroaniline              | 5.0  |          |   |          |   |
| Hexachlorobutadiene          | 5.0  |          |   |          |   |
| Caprolactam                  | 5.0  |          |   |          |   |
| 4-Chloro-3-methylphenol      | 5.0  |          |   |          |   |
| 2-Methylnaphthalene          | 5.0  |          |   |          |   |
| Hexachlorocyclopentadiene    | 5.0  |          |   |          |   |
| 2,4,6-Trichlorophenol        | 5.0  |          |   |          |   |
| 2,4,5-Trichlorophenol        | 5.0  |          |   |          |   |
| 1,1'-Biphenyl                | 5.0  |          |   |          |   |
| 2-Chloronaphthalene          | 5.0  |          |   |          |   |
| 2-Nitroaniline               | 10   |          |   |          |   |
| Dimethylphthalate            | 5.0  |          |   |          |   |
| 2,6-Dinitrotoluene           | 5.0  |          |   |          |   |
| Acenaphthylene               | 5.0  |          |   |          |   |
| 3-Nitroaniline               | 10   |          |   |          |   |
| Acenaphthene                 | 5.0  |          |   |          |   |
| 2,4-Dinitrophenol            | 10   |          |   |          |   |
| 4-Nitrophenol                | 10   |          |   |          |   |
| Dibenzofuran                 | 5.0  |          |   |          |   |
| 2,4-Dinitrotoluene           | 5.0  |          |   |          |   |

| Sample Number:             |      | C45C3    |   | C45C4    |   |
|----------------------------|------|----------|---|----------|---|
| Sampling Location:         |      | MC-FB-01 |   | MC-RB-01 |   |
| Matrix:                    |      | Aqueous  |   | Aqueous  |   |
| Date Sampled:              |      | 6/8/2010 |   | 6/8/2010 |   |
| Dilution Factor:           |      | 1.0      |   | 1.0      |   |
| Semivolatile Compound      | CRQL | Result   | Q | Result   | Q |
| Diethylphthalate           | 5.0  |          |   |          |   |
| Fluorene                   | 5.0  |          |   |          |   |
| 4-Chlorophenyl-phenylether | 5.0  |          |   |          |   |
| 4-Nitroaniline             | 10   |          |   |          |   |
| 4,6-Dinitro-2-methylphenol | 10   |          |   |          |   |
| N-Nitrosodiphenylamine     | 5.0  |          |   |          |   |
| 1,2,4,5-Tetrachlorobenzene | 5.0  |          |   |          |   |
| 4-Bromophenyl-phenylether  | 5.0  |          |   |          |   |
| Hexachlorobenzene          | 5.0  |          |   |          |   |
| Atrazine                   | 5.0  |          |   |          |   |
| Pentachlorophenol          | 10   |          |   |          |   |
| Phenanthrene               | 5.0  |          |   |          |   |
| Anthracene                 | 5.0  |          |   |          |   |
| Carbazole                  | 5.0  |          |   |          |   |
| Di-n-butylphthalate        | 5.0  |          |   |          |   |
| Fluoranthene               | 5.0  |          |   |          |   |
| Pyrene                     | 5.0  |          |   |          |   |
| Butylbenzylphthalate       | 5.0  |          |   |          |   |
| 3,3'-Dichlorobenzidine     | 5.0  |          |   |          |   |
| Benzo(a)anthracene         | 5.0  |          |   |          |   |
| Chrysene                   | 5.0  |          |   |          |   |
| Bis(2-ethylhexyl)phthalate | 5.0  |          |   |          |   |
| Di-n-octylphthalate        | 5.0  |          |   |          |   |
| Benzo(b)fluoranthene       | 5.0  |          |   |          |   |
| Benzo(k)fluoranthene       | 5.0  |          |   |          |   |
| Benzo(a)pyrene             | 5.0  |          |   |          |   |
| Indeno(1,2,3-cd)pyrene     | 5.0  |          |   |          |   |
| Dibenzo(a,h)anthracene     | 5.0  |          |   |          |   |
| Benzo(g,h,i)perylene       | 5.0  |          |   |          |   |
| 2,3,4,6-Tetrachlorophenol  | 5.0  |          |   |          |   |

**TABLE B-7, page 1 of 2**  
**ANALYTICAL RESULTS - FIELD AND RINSATE BLANKS**  
**METRO CONTAINER SITE, TRAINER, PA**  
**JUNE 7-10, 2010**

**AROCLORS**

| Sample Number:     |      | C45C3    |   | C45C4    |   |
|--------------------|------|----------|---|----------|---|
| Sampling Location: |      | MC-FB-01 |   | MC-RB-01 |   |
| Matrix:            |      | Aqueous  |   | Aqueous  |   |
| Date Sampled:      |      | 6/8/2010 |   | 6/8/2010 |   |
| Dilution Factor:   |      | 1.0      |   | 1.0      |   |
| Compound           | CRQL | Result   | Q | Result   | Q |
| Aroclor-1016       | 1.0  |          |   |          |   |
| Aroclor-1221       | 1.0  |          |   |          |   |
| Aroclor-1232       | 1.0  |          |   |          |   |
| Aroclor-1242       | 1.0  |          |   |          |   |
| Aroclor-1248       | 1.0  |          |   |          |   |
| Aroclor-1254       | 1.0  |          |   |          |   |
| Aroclor-1260       | 1.0  |          |   |          |   |
| Aroclor-1262       | 1.0  |          |   |          |   |
| Aroclor-1268       | 1.0  |          |   |          |   |

**INORGANICS**

| Sample Number:     |      | C45C3    |    | C45C4    |    |
|--------------------|------|----------|----|----------|----|
| Sampling Location: |      | MC-FB-01 |    | MC-RB-01 |    |
| Matrix:            |      | Aqueous  |    | Aqueous  |    |
| Date Sampled:      |      | 6/8/2010 |    | 6/8/2010 |    |
| Dilution Factor:   |      | 1.0      |    | 1.0      |    |
| Analyte            | CRQL | Result   | Q  | Result   | Q  |
| Aluminum           | 200  | 6.6      | J  |          |    |
| Antimony           | 60   |          |    |          |    |
| Arsenic            | 10   |          |    |          |    |
| Barium             | 200  |          |    |          |    |
| Beryllium          | 5    |          |    |          |    |
| Cadmium            | 5    |          |    |          |    |
| Calcium            | 5000 |          |    |          |    |
| Chromium           | 10   |          |    |          |    |
| Cobalt             | 50   |          |    |          |    |
| Copper             | 25   |          |    |          |    |
| Iron               | 100  | 22.3     | J  |          | UL |
| Lead               | 10   |          |    |          |    |
| Magnesium          | 5000 |          |    |          |    |
| Manganese          | 15   |          |    |          |    |
| Mercury            | 0.2  |          |    |          |    |
| Nickel             | 40   | 0.46     | J  |          |    |
| Potassium          | 5000 |          |    |          |    |
| Selenium           | 35   |          |    |          |    |
| Silver             | 10   |          | UL |          | UL |
| Sodium             | 5000 |          |    |          |    |
| Thallium           | 25   |          |    |          |    |
| Vanadium           | 50   |          | UL |          | UL |
| Zinc               | 60   | 3.4      | J  |          |    |

**Notes:**

All CRQLs and results are in micrograms per liter (µg/L)

CRQL = Contract Required Quantitation Limit

Sample quantitation limit = (CRQL \* Dilution Factor)

Empty cell indicates substance not reported above detection limit

**Data qualifiers (Q):**

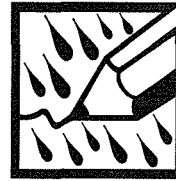
J = Analyte present. Reported value may not be accurate or precise.

UL = Not detected, quantitation limit is probably higher.

**APPENDIX C**  
**FIELD LOGBOOK NOTES**

2503910

Metro  
Container



*"Rite in the Rain"*

ALL-WEATHER

JOURNAL

No. 391

---

Log book 1 of 2

"Rite in the Rain"  
ALL-WEATHER WRITING PAPER



Name

Address

Phone

Project

7 Creek Pkwy  
700 - Suite Boothwyn

PA 19061

Metro  
Container

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook.  
Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

6/7/2010

Metro

CONTENTS  
Garavelas

Container

PAGE

REFERENCE

DATE

Site Contact Meter  
Cell

Tetra Ted:

All notes taken in this  
logbook taken by

Nick office

ex 4

All samples on chain of  
custody begin with  
"MC"

6/7/2010

6/7/2010 Metro June 7, 2010

Dustin Armstrong

En. Protection Specialist

PADEP

Has Clean up SE Office

484-250 5723

Sara Pantclidou PADEP

PG Geologist

Special Projects

484-250-5778

(has historic knowledge of site)

Charles Creamer

EPA

215 814 2145

PADEP Contacts:

Alan Everett 484 2805151

Biologist

Kevin Hess

717-783-9491

Weather 75° Sunny

Samples on COCs begin with MC  
for Metro Containe

6/7/2010

6/7/2010 Metro June 7, 2010

SD-07 organic  
black strong  
petroleum smell/  
organic material  
rocks black silt/sand  
and silt as  
sample collected by  
[REDACTED]

At 1140

0-6" bgs  
sample 20 feet upstream  
of Conoco Phillips  
cooling water discharge  
IN Stony Creek  
sample very warm  
sediment, unusually  
warm sediment

sample collected for  
Metro Bank of

Stoney Creek, east bank

1/2 foot into water

6/7/2010



6/7/2010 Metro June 7 2010

Photo SD-07 Looking down  
at aluminum mixing  
pan of SD07 photo 28  
also taken of a Bottle  
SD-07, two photo of  
Bottles (photos 29+30)  
photo of Conoco Phillips  
discharge to Stony  
Creek (photo 31)

Photo #32  
looking down at  
pan with SD06 and  
white plastic scoop  
taken from the bank  
submerged sediment  
of Stony Creek by  
[redacted] at 1205  
silty gray sediment  
taken 1 foot ~~upstream~~  
downstream from drainage  
~~ditch~~ ditch from  
Metro contained, 0-6" hgs  
photo of SD06 in  
jar (photo 33)  
photo of drainage  
[redacted] 6/7/2010

6/7/2010 Metro June 7, 2010

ditch (photo 34)  
organic small

Bank composed of waste  
material rubble construction  
waste, banks of Stony  
Creek formed from waste

[redacted] GPS  
each coordinate in

poisoning along banks very  
heavy growth of poisoning

Samples collected using Auger

two photos taken looking  
upstream from SD-06  
(photos 35+36)

photo 37 of drum in stream,  
Stony Creek

photo 38 waste in Stony Creek  
photo waste in bank Stony  
Creek

[redacted] 6/7/2010

6/7/2010

Metro

photo 39 drainage ditch  
from metro near SP-06  
discharge pipe at bottom  
of ditch

photo 40 of SD5 black  
~~at grass~~ silty clay + gravel

photo 41 waste in bank near  
SD-05 SD5 very strong  
petroleum smell sample  
collected by [REDACTED]  
at 1235 taken @ 0-6" bgs

photo 42 looking down @  
SD 05

photo 43 looking down  
@ SD05

photo 44 looking down  
@ SD05

photo 45 looking  
down at SD05

photo 46 looking  
down at SD05

photo 47 looking  
up stream from SD 05

[REDACTED] 6/7/2010

June 7 2010 Metro

SD 06 Coordinates appear  
not to have recorded  
correctly

SS01 tanker between MW6  
and MW7 at lagoon

SS02 + SBO2 east of  
SE01, ~ 15 feet east

Conoco Phillips Representatives: [REDACTED]

SD-15 collected by [REDACTED] @ 400pm/600

sample collected as  
possible background @ 0-6" bgs  
tide low sample

collected from mud

flat exposed silty sand  
dark gray black small  
amount organic matter in

Delaware River

[REDACTED] 6/7/2010

6/7/2010 Metro  
 SD16 Sediment sample  
 collected from the Delaware  
 River as possible  
 background sample  
 sample collected 100 yards  
 east of SD15  
 sample collected at 430pm  
 1630 by [REDACTED]  
 gray silt and sand and  
 organic matter @ 0-6" layer

All sediment sample  
 collected during low tide  
 from exposed mud flats  
 surrounded by wetlands  
 dominated by Fragmites

Photo 48 and 49 Panorama  
 of Metro former process  
 building

Photo 50 looking at  
 sampling location  
 SD15

[REDACTED] 6/7/2010

6/7/2010 Metro  
 Photo 51 looking at wetlands  
 surrounding SD15

Photo 52 looking towards  
 the Delaware River from  
 SD15, looks like supports  
 for a pier exposed at the  
 surface

Photo 53 looking at  
 SD16 Photo 54 looking  
 at SD16

Photo 55 looking out to the  
 Delaware River from SD16

Photo 56 looking at sample  
 location SD16

Sara P. from PADEP  
 has been working at  
 Metro since Metro opened  
 at the location  
 Sara assisted TetraTech  
 with identifying sampling

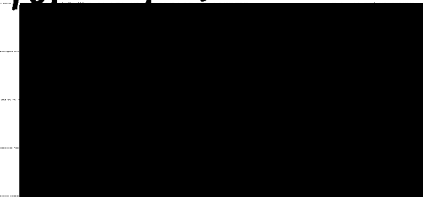
[REDACTED] 6/7/07

10 6/7/2010 Metro  
location at Metro  
including location of  
former lagoon / drum  
storage Area

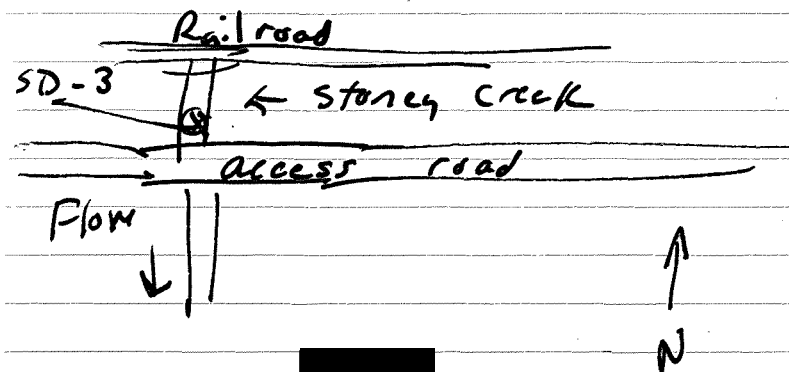
The former drum storage  
areas will be covered  
with fill material to  
construct gravel parking  
lot. Therefore soil samples  
could not be collected from  
these areas because the auger  
could not go through the  
gravel. Any sampling,  
sub surface, would need to  
be collected from a backhoe  
Conoco Phillips wants to use  
the site for a parking lot

6/8/2010 Metro

1300 START members -  
Tetra Tech



On-site at the Stony Creek  
site @ 1300, sign-in and  
get access, review Health  
and Safety Plan proceed to  
Stony Creek to get SD-03  
A background sample for  
Metes Contain for  
Stony Creek



6/8/2010

6/8/2010

Metro

Photo 69 of Aerial of Stoney Creek site

Photo 70 Looking upstream towards the level road track towards SD-03

Photo 71 looking down at SD03 sampling location

SD 03. Collected by [REDACTED]  
sediment - gravel sand and some organic matter

oil smelt to may collect to get a better material

@ 1400 photo 73 SD-03 location  
SD02 collected by Donna Davis at 1430 silty sand + gravel  
black oil sheen

photo 7

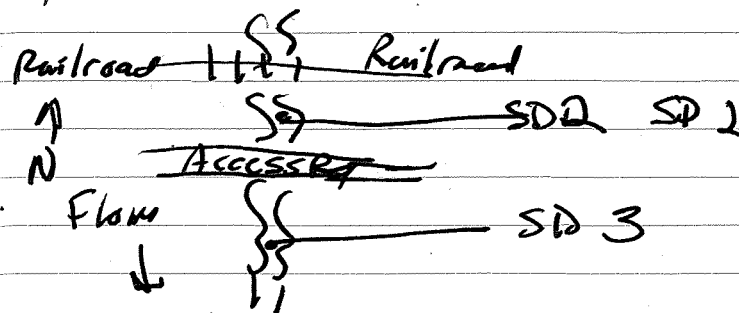
3 photos of SD02 location  
note collect in the left and concrete walls on the right

[REDACTED] 6/8/2010

6/8/2010

Metro

photos 74 to 76 SD-02



Background sample  
collect Booth and  
W. 6th Street  
Near Railroad,  
up gradient side  
North of Stoney Creek

site. Tried to find  
background sample for  
Stoney Creek upstream

[REDACTED] 6/8/2010

6/8/2010 Metro

of Stoney Creek Site  
 could not find the  
 creek walked along the  
 railroad on the N. side  
 of the Stoney Creek Site

CS04 collected by [redacted]  
 [redacted] @ 1500 N side  
 of RR track, gray brown  
 organic soil, silty sand, fine  
 silty matrix veg  
 area vegetated

SB04 collected At 1510  
 Background soil sample,  
 dry brown silty <sup>fine</sup> matrix  
 with some <sup>fine</sup> sand + clay, in ch  
 sample collect At 6-12 feet by S

Silty fine sand + some clay

6/8/2010

6/8/2010

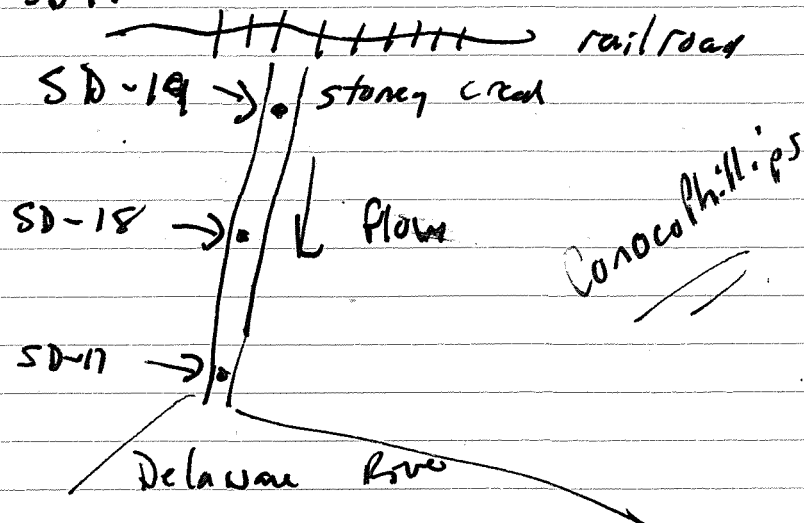
Metro

SD-19 gray clay some organic  
 No collect @ 1602 by [redacted]

SD-18 @ 1614 gray clay by [redacted] some organic

SD-17 @ 1624 gray clay by [redacted] some organic

SD-17



SD-17, 18 + 19 from Stoney  
 Creek on ConocoPhillips  
 property below south of  
 railroad

6/8/2010

6/8/2010 Metro

Background soil sample  
collected at Market  
Square Memorial Park

SS05 Background soil  
collected @ 1724 by  
[redacted]

[redacted] soil with silt  
adjacent to river

Surface soil (SS) sample  
collected after vegetation  
removed from the surface

1730 to 1930 Tried to find  
background sampling location  
for Delaware River and  
Stony Creek. Could not  
find Stony Creek upstream  
of Stony Creek Site. Walked  
along the railroad adjacent  
to the Stony Creek Site. Could  
not find Stony Creek.

All Background Delaware River  
sampling location, were  
too dangerous to get to.

6/8/2010

Metro

Late entry

Photo 26 Green pipe  
discharge to Stony  
Creek from Metro  
east bank

Photo 27 Green pipe  
discharge Same as  
photo 26

photo 48 Metro Container  
former process Bldg  
photo 49 Metro Bldg

Could not find background for  
Stony Creek. Using SD15 +  
SD16 for background location  
for Delaware River. Other  
possible background locations  
were covered with rocks  
for erosion control or  
too dangerous to access

[redacted] 6/8/2010

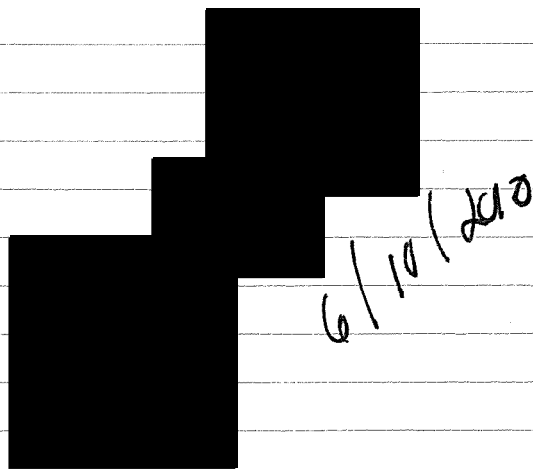
6/10/2010

Metro

After rain found the  
Northern end of Stoney  
Creek, north of railroad  
+ Stoney Creek Site

Will collect a background  
sample from this location.

- All  
Surface runoff from Metro flows to  
Stoney Creek



end of entries for 6/10/2010

6/11/2010

Metro

Late Entry - site observations

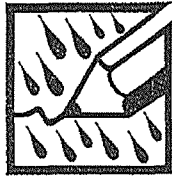
None of the former source  
areas such as lagoons  
are visible. The entire  
site has been graded and  
covered with gravel to level  
the property. A bermed area  
exists where the former lagoon  
was located. The MWH reports  
for the site are still  
accurate. The site has not  
changed significantly.

No sewers observed on site.  
Monitoring wells still onsite.  
The area around the site  
is densely developed  
with junk yard to the North  
and Conoco Phillips to the  
south. Residential properties  
are mixed in. The site is  
active but contact with  
sources is not possible  
as sources are covered.

6/11/2010



Metro Container  
6/7/10 - 6/10/10



*"Rite in the Rain"*  
ALL-WEATHER  
**JOURNAL**  
No. 391

Metro Container  
Trainer, PA

Monday - 6-7-10  
Weather = Clear, 70°F  
Sunny.

onsite to conduct soil sampling - surface  
and subsurface - at former lagoon  
source areas.

1120 [redacted] begins collecting surface soil (SS)  
sample 01 (SS-01) from former  
lagoon area. Sample SS-01 consists  
of dry, fine-grained silty sand, brown to  
dark brown in color. PID = 0.0. Sample depth = 6".  
[SS-01 collected @ 1120] SS-01 collected  
from area west-southwest of NW-6.

1130 [redacted] begins augering activities for  
collection of SB-01. Encountered  
refusal @ ~ 1 ft. bgs. Offset boring  
location 1 ft. to right & attempted  
auger activities; refusal encountered  
again (rock + brick) @ 1 ft. bgs; offset  
boring location 1 ft. to left & attempted  
auger activities; refusal encountered  
once more @ 1 ft. bgs. Terminated  
auger activities @ SB-01.

Metro Container (Cont'd) Monday - 6-7-10

1155 [redacted] move to location of  
sample SS-02 + SB-02.

begins augering to collect sample  
SS-02. Surface soil collected in  
aluminum pan + homogenized prior  
to placing in glassware. + [redacted]  
Sample location is located south of NW-6.

1202 Collection of SS-02 @ 1202; Depth = 6".  
Soil consists of fine, silty sand with  
brick, rock and wood debris. PID = 0.0.  
Sample collected by BW.

1205 [redacted] continues hand augering for  
collection of sample SB-02.

1211 [redacted] placed soil for subsurface sample  
from bucket of auger into aluminum  
pan. Soil is homogenized + then  
placed into glassware. Sample SB-02  
collected @ 1211; Sample consists of  
brown, dry, fine silty sand with  
brick, glass, wood + rock. PID = 0.0.  
[redacted] collect sample SB-02.  
Sample depth = 12".

1221 [redacted] photograph samples + sample  
locations for SS-01, SS-02 + SB-02.

# Metro Containers (Cont'd) Monday-6-7-10

- 1235 [redacted] move to sample location #3 for surface soil sample SS-03 and subsurface soil sample SB-03. Sample location within former lagoon area, fill encountered 0 - 1 foot below surface. Soil is dry, fine silty sand with rocks.
- 1240 [redacted] hand augers for soil sample SS-03. Surface soil placed into aluminum pan and homogenized prior to collecting sample into glass jars. [redacted] collects [SS-03] at 1240. PID = 0.0 ppm; <sup>Sample</sup> Depth = 6".
- 1245 [redacted] continues to hand auger for soil sample SB-03. Refusal at 12" below ground surface. Sample Depth = 12".
- 1248 [redacted] collects [SB-03]. Soil that made up sample SB-03 was contained within an aluminum pan + homogenized prior to the soil being placed in sample jars. Sample consisted of brown, fine, dry, silty sand with wood, rock, brick fragments.
- 1300 [redacted] decon. equipment + load van.

# Metro Containers (Cont'd) Monday-6-7-10

- 1335 [redacted] offsite for lunch.
- 1400 [redacted] meet [redacted] @ Conoco Phillips facility to check-in, watch safety video + briefing.
- 1500 [redacted] arrive at mudflat location on Conoco Phillips property + discuss scope of work and sampling plans. START begins to gather PPE + sampling equipment needed for sampling of mudflats.
- 1545 [redacted] begin to walk onto mudflats to sampling locations.
- 1553 [redacted] begins hand augering activities at sample location SD-12. Augered to approx. 6" bgs; contained augered sediment in aluminum pan. Sediment homogenized in pan prior to placement in bottles.
- 1600 [redacted] collects sample [SD-12 @ 1600]. Sediment sample consisted of dark brown, moist/wet sand with organic material and a petroleum odor. [redacted] decons auger.
- 1603 [redacted] move to next sample point SD-11. [redacted] begins hand augering activities at SD-11 location.

# Metro Containers (Cont'd) Monday-6-7-10

11608 Sample [SD-11] collected by [REDACTED] @  
11608 Sediment sample consisted of  
dark brown to brown, wet sand with  
organic material. Petroleum odor  
was noted. [REDACTED] begins auger down.

11612 [REDACTED] move to next sample point  
SD-10. [REDACTED] begins hand augering  
activities at location SD-10.

11616 Sample [SD-10] collected by [REDACTED]  
@ 11616. Sediment sample consisted  
of dark brown to brown, wet sand  
with organic material. Petroleum  
odor was noted. [REDACTED] begins down.

11619 [REDACTED] of hand auger [REDACTED]

11619 <sup>concluded</sup> BW continued augering at location SD-10;  
duplicate sample [SD-13] collected  
from location SD-10 @ 11619 from  
approximately 6" bgs. Sediment sample  
consisted of dark brown to brown, wet  
sand with organic material. Petroleum  
odor was noted. [REDACTED] discons auger.

11631 [REDACTED] photograph hand auger / sediment  
sample locations.

11644 [REDACTED] walk back from mudflats and  
begin to organize samples + dis/pack equip.

# Metro Containers (Cont'd) Monday-6-7-10

| Sediment Sample       | Sample Depth (bgs) |
|-----------------------|--------------------|
| SD-10                 | 8"                 |
| SD-11                 | 6"                 |
| SD-12                 | 6"                 |
| SD-13 (dup. of SD-10) | 8"                 |

11730 START discons, pack equipment and  
samples in vehicles and dis/pack from  
Conoco Phillips property.



Metro Container

Trainer, PA

Weather: Sunny, clear, 70°F

Samples:

Tuesday, 6/8/10

START

1315 START arrives @ Stony Creek site in an effort to access Stony Creek for sampling.

1320 START checks in at Stony Creek site, reviews HASP for site and signs HASP.

1335 START travels through Stony Creek site to unimproved road which provides access to the creek.

1346 START collects equipment + PPE to enter creek for sample collection.

1350 [redacted] enters creek to collect a sediment sample.

1401 [redacted] collected sediment sample [SD-03]. Sediment consists of black sandy silt with gravel, collected within Stony Creek, north of the roadway crossover; Depth = 6"

1415 [redacted] moves to second location within Stony Creek to collect sediment sample.

Metro Container

Tuesday 6-8-10

1423 [redacted] collects sediment sample [SD-02]

Sediment consists of black sandy silt with gravel and petroleum odor.

Sample collected further north of roadway crossing. Sample Depth = 6"

1430 SD-03 and SD-02 sample locations GPS'd using Trimble.

1445 [redacted] moves to collect background soil sample from

North side of Septa/Amtrak railroad.

1500 [redacted] collects surface soil sample [SS-04]. Sample Depth = 6"; Sample consisted of

1510 [redacted] collects subsurface soil sample [SB-04]. Sample Depth = 12"; Sample consisted of

late note: 1330 = [redacted] collects Field Blank: MC-FB-01

1741 [redacted] collects inside blank: MC-RB-01.



Metro Containers Thursday-6/10/10

Weather = Clear, sunny, 76°F

Staff:

[REDACTED]

1430 [REDACTED] arrive at right of way for railroad access via West 6th Street.

! [REDACTED] review scope + H.A.S.P.

1439 [REDACTED] begin walk down right-of-way to determine a location for the collection of a background sediment sample.

1503 [REDACTED] identify a sample location-portion of Storey Creek.

1512 [REDACTED] conducts a recon. of sample area; [REDACTED] identifies the presence of trash/debris along the banks of the Creek.

1551 [REDACTED] begins augering in an effort to collect a background sediment sample. Sediment from auger is contained with an aluminum pan and homogenized prior to placement into sample glassware.

Metro Containers (Cont'd) Thursday-6/10/10

1600 [REDACTED] collects sample MC-SB-01 from this portion of Storey Creek. Sample consisted of wet, black sandy silt. Sample depth = 8".

1614 [REDACTED] remove sample equipment and pack vehicle.

1619 [REDACTED] remove for Boothwyn office.

6-10-10  
[REDACTED]

**APPENDIX D**  
**ANALYTICAL DATA REPORTS**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE : July 15, 2010  
SUBJECT: Region III Data QA Review  
FROM: Colleen Walling *CC Walling*  
Region III ESAT RPO (3EA20) *for*  
TO: Charlene Creamer  
Regional Project Manager (3HS12)

Attached is the organic data validation report for the Metro Container Corp. site (Case #: 40185; SDG#: C4598, C45B5) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

cc:

TO: #0027 TDF: #06108

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE



Lockheed Martin IS&GS – Civil  
Energy & Environment  
ESAT Region 3  
US EPA Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-530  
Telephone 410-305-3037 Facsimile 410-305-3597

**DATE:** July 8, 2010

**SUBJECT:** Level M3 Organic Data Validation for Case 40185  
SDG: C4598 and C45B5  
Site: Metro Container Corporation

**FROM:** [REDACTED]  
Organic Data Reviewer  
[REDACTED]  
Senior Oversight Chemist

**TO:** Colleen Walling  
ESAT Region 3 Project Officer

### **OVERVIEW**

Case 40185, Sample Delivery Groups (SDGs) C4598 and C45B5, consisted of twenty (25) soil samples submitted to KAP Technologies, Inc. (KAP) for semivolatile and aroclor analyses. The sample set included one (1) rinsate blank, one (1) field blank and one (1) field duplicate pair. Samples were analyzed according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM01.2 through Routine Analytical Services (RAS) program.

### **SUMMARY**

Data were validated according to the Region III Modifications to the National Functional Guidelines for Organic Data Review, Level M3. Areas that may impact data usability are listed below.

### **MAJOR PROBLEM**

- Semivolatile sample C45A9 reported zero percent (0%) recovery of Deuterated Monitoring Compound (DMC) 4,6-dinitro-2-methylphenol-d2 while sample C45A0RE reported less than ten percent (<10%) recovery for 4-nitrophenol-d4 in SDG C4598. Quantitation limits for compounds associated with these DMCs in these samples were rejected and qualified "R" on the DSFs.

**MINOR PROBLEMS**

- Several compounds failed precision criteria [Percent Relative Standard Deviations (%RSDs) and/or Percent Differences (%Ds)] in the initial and/or continuing calibrations. The associated positive sample results for these compounds were qualified "J" on the DSFs. Nitrobenzene precision exceeded fifty percent (%D > 50%) criteria in the continuing calibration performed on 06/24/2010 at 11:04 in SDG C4598. Since results for this compound in affected samples were reported from reanalyses no data were qualified based on this outlier.
- Semivolatile sample C45A7RE (SDG C4598) had a recovery of DMC anthracene-d10 outside the upper Quality Control (QC) limit. The "K" qualifier for the positive result (phenanthrene) associated with this DMC was superseded by "J" on the DSFs.
- Internal standard (IS) area counts for 1,4-dichlorobenzene-d4 and naphthalene-d8 were outside the lower control limits in sample C45A9 (SDG C4598). This sample was reanalyzed with similar results. The initial analysis results for this sample were reported on the DSFs. Reported results and quantitation limits for compounds associated with these internal standards were qualified "J" and "UJ", respectively, on the DSFs.
- Internal standard (IS) area counts for 1,4-dichlorobenzene-d4, naphthalene-d8, acenaphthene-d10 and/or perylene-d12 were outside the control limits in semivolatile samples C45A0, C45A2, C45A3, C45A6, C45A7, C45B0 and/or C45B1 (SDG C4598). These samples were reanalyzed with area count of 1,4-dichlorobenzene-d4 outside the lower control limit. The reanalysis results for these samples were reported on the DSFs. Quantitation limits for compounds associated with internal standard 1,4-dichlorobenzene-d4 were qualified "UJ" on the DSFs.
- Positive results for pesticide/PCB compounds with percent differences (%Ds) greater than twenty-five percent (>25%) between the two analytical columns were qualified "J" on the DSFs. The lower of the two columns results are reported.
- Aroclor analyses of sample C45A4 (SDG C4598) reported high recovery of Decachlorobiphenyl (DCB) on both analytical columns. Aroclor-1260 the only positive result reported in this sample was qualified "J" on the DSFs.
- Aroclor analysis of samples C45B5 and C45B9 (SDG C45B5) reported recovery of Tetrachloro-m-xylene (TCX) outside the lower control limit on both analytical columns. Reported results and quantitation limits in these samples were qualified "J" and "UJ", respectively, on the DSF.

**NOTES**

- No positive result was reported in the analyses of rinsate, field, method and storage blanks associated with this data set.
- The Response Factor (RRF) was less than 0.05 for pentachlorophenol in the semivolatile continuing calibration performed 06/24/2010 at 01:17 in SDG C4598. Since results for this compound in samples associated with this calibration were reported from reanalyses. No data were qualified based on this outlier.
- The concentration of several compounds exceeded the calibration range in the initial analyses of in the following field samples. These samples were diluted and re-analyzed to bring the concentration of these compounds within the calibration range. Results for these compounds are reported from the diluted analyses and annotated with a (+) symbol on the DSFs by the reviewer.

| <u>Fraction</u> | <u>Samples</u> | <u>Dilution Factor</u> | <u>Compounds</u>     |
|-----------------|----------------|------------------------|----------------------|
| Semivolatile    | C4598          | 5.0 X                  | Fluoranthene, Pyrene |
| Aroclor         | C4598          | 10 X                   | Aroclor-1260         |
|                 | C45B0, C45B1   | 5.0 X                  | Aroclor-1260         |

- All semivolatile soil samples in both SDGs were collected from 6/7/2010 to 6/10/2010 and extracted on 6/19/2010 to 6/20/2010. The aqueous technical holding time of (7) days from time of sample collection were exceeded by three (3) to five (5) days. Due to the stability of semivolatile compounds in the soil matrix, no data qualifying action was taken by data reviewer based on holding time outlier unless the holding time of fourteen (14) days was exceeded. The contractual holding time of ten (10) days from the Validated Time of Sample Receipt (VTSR) was met.
- Aroclor soil samples C4598, C4599, C45A0, C45A1, C45A2, C45A3, C45A4, C45A5, C45A6, C45A7, C45A8, C45A9, C45B0, and C45B1 (SDG C4598) were collected on 6/7/2010 and extracted on 6/15/2010. The aqueous technical holding time of (7) days from time of sample collection were exceeded by one (1) day. Due to the stability of aroclor compounds in the soil matrix, no data qualifying action was taken by data reviewer based on holding time outlier unless the holding time of fourteen (14) days was exceeded. The contractual holding time of ten (10) days from the VTSR was met.
- The following semivolatile samples had recoveries of DMCs outside the upper QC limits. Since the associated sample results were either non-detects or not reported from reanalyses, no data qualifying action was taken by data reviewer.

| <u>SDG</u> | <u>Sample</u> | <u>DMCs</u>           |
|------------|---------------|-----------------------|
| C4598      | C45A7RE       | Acenaphthylene-d8     |
|            | C45A9         | 2,4-Dichlorophenol-d3 |
| C45B5      | C45B5         | Acenaphthylene-d8     |

- The following semivolatile samples had recoveries of DMCs outside the lower QC limits. Since the associated sample results were reported from reanalysis, no data qualifying action was taken by data reviewer.

| <u>SDG</u> | <u>Sample</u> | <u>DMCs</u>      |
|------------|---------------|------------------|
| C4598      | C45A0, C45A3  | 2-Nitrophenol-d4 |
|            | C4598         | Pyrene-d10       |

- The following semivolatile samples had recoveries of DMCs < 10%. Since the associated sample results were reported from reanalysis, no data qualifying action was taken by data reviewer.

| <u>SDG</u> | <u>Sample</u>       | <u>DMCs</u>                   |
|------------|---------------------|-------------------------------|
| C4598      | C45A0, C45A3, C45A6 | 4-Nitrophenol-d4              |
|            | C45A2               | 4,6-dinitro-2-methylphenol-d2 |

- Internal standard (IS) area counts for 1,4-dichlorobenzene-d4, naphthalene-d8, acenaphthene-d10 and/or perylene-d12 were outside the lower control limits in samples C4598 and C45B4 (SDG C4598). These samples were reanalyzed with internal standard area counts were within the control limits. The reanalysis results for these samples were reported on the DSFs. No data were qualified based on these outliers.
- Aroclor analyses of sample C45A7 (SDG C4598) reported high recovery of DCB on both analytical columns. Since no positive results were reported in this sample, no data were qualified in this sample.
- Reported recoveries for pesticide and aroclors in Laboratory Control Samples (LCS) and Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis were within QC limits on both columns in both SDGs.
- A sample weight other than thirty (30) grams in the semivolatile and aroclor analyses was used for samples associated with this case. Dilution factors reported on DSFs reflect actual sample weight used.
- Results for semivolatile field duplicate pair, samples C45A3RE/C45A6RE (SDG C4598), were comparable for all compounds except for phenanthrene and bis(2-ethylhexyl)phthalate.

- Results for aroclor field duplicate pair, samples C45A3/C45A6 (SDG C4598), were comparable.
- Tentatively Identified Compounds (TICs) were reviewed during data validation. Compounds identified as blank contaminants were crossed off TIC Form Is by the reviewer. Several TICs were identified as the same target compounds at different retention time. Identification for these TICs was changed to "unknown" by the reviewer. TIC Form Is for samples in which TICs were identified are included in Appendix E.
- Compounds detected below Contract Required Quantitation Limits (CRQLs) were qualified "J" on the DSFs.

All data for Case 40185, SDGs C4598 and C45B5, were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review, September 1994.

#### **ATTACHMENTS**

|            |   |
|------------|---|
| Appendix A | Glossary of Data Qualifier Terms        |
| Appendix B | Data Summary Form                       |
| Appendix C | Chain-of-Custody Records                |
| Appendix D | Laboratory Case Narrative               |
| Appendix E | Tentatively Identified Compounds (TICs) |

DCN: 40185 – C4598 and C45B5

## **Appendix A**

### **Glossary of Data Qualifiers**



## **GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)**

### **CODES RELATED TO IDENTIFICATION**

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

### **CODES RELATED TO QUANTITATION**

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

### **OTHER CODES**

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

**Appendix B**  
Data Summary Forms



## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C4598

Number of Soil Samples : 20

Site :

METRO CONTAINER CORP

Number of Water Samples : 0

Lab. :

KAP

|                              |      |          |      |          |      |          |      |          |      |          |      |
|------------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sample Number :              |      | C4598RE  |      | C4599    |      | C45A0RE  |      | C45A1    |      | C45A2RE  |      |
| Sampling Location :          |      | MC-SB-02 |      | MC-SB-03 |      | MC-SD-05 |      | MC-SD-06 |      | MC-SD-07 |      |
| Field QC :                   |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :                     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :                      |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :               |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      |
| Time Sampled :               |      | 12:11    |      | 12:48    |      | 12:35    |      | 12:05    |      | 11:40    |      |
| %Moisture :                  |      | 6        |      | 6        |      | 19       |      | 33       |      | 21       |      |
| Dilution Factor :            |      | 1.0/4.98 |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound        | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| Benzaldehyde                 | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| Phenol                       | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| Bis(2-chloroethyl)ether      | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| 2-Chlorophenol               | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| 2-Methylphenol               | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| 2,2'-Oxybis(1-chloropropane) | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| Acetophenone                 | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| 4-Methylphenol               | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| N-Nitroso-di-n-propylamine   | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| Hexachloroethane             | 170  |          |      |          |      |          | UJ   |          |      |          | UJ   |
| Nitrobenzene                 | 170  |          |      |          |      |          |      |          |      |          |      |
| Isophorone                   | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Nitrophenol                | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4-Dimethylphenol           | 170  |          |      |          |      |          |      |          |      |          |      |
| Bis(2-chloroethoxy)methane   | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4-Dichlorophenol           | 170  |          |      |          |      |          |      |          |      |          |      |
| Naphthalene                  | 170  |          |      |          |      |          |      | 100      | J    |          |      |
| 4-Chloroaniline              | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachlorobutadiene          | 170  |          |      |          |      |          |      |          |      |          |      |
| Caprolactam                  | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Chloro-3-methylphenol      | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Methylnaphthalene          | 170  |          |      |          |      | 110      | J    | 160      | J    |          |      |
| Hexachlorocyclopentadiene    | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4,6-Trichlorophenol        | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4,5-Trichlorophenol        | 170  |          |      |          |      |          |      |          |      |          |      |
| 1,1'-Biphenyl                | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Chloronaphthalene          | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Nitroaniline               | 330  |          |      |          |      |          | R    |          |      |          |      |
| Dimethylphthalate            | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,6-Dinitrotoluene           | 170  |          |      |          |      |          |      |          |      |          |      |
| Acenaphthylene               | 170  | 110      | J    |          |      |          |      |          |      | 91       | J    |
| 3-Nitroaniline               | 330  |          |      |          |      |          | R    |          |      |          |      |
| Acenaphthene                 | 170  | 120      | J    |          |      |          |      |          |      |          |      |

## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C4598

Site :

METRO CONTAINER CORP

Lab. :

KAP

|                            |      |          |      |          |      |          |      |          |      |          |      |
|----------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sample Number :            |      | C4598RE  |      | C4599    |      | C45A0RE  |      | C45A1    |      | C45A2RE  |      |
| Sampling Location :        |      | MC-SB-02 |      | MC-SB-03 |      | MC-SD-05 |      | MC-SD-06 |      | MC-SD-07 |      |
| Field QC :                 |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :                   |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :                    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :             |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      |
| Time Sampled :             |      | 12:11    |      | 12:48    |      | 12:35    |      | 12:05    |      | 11:40    |      |
| %Moisture :                |      | 6        |      | 6        |      | 19       |      | 33       |      | 21       |      |
| Dilution Factor :          |      | 1.0/4.98 |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound      | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| 2,4-Dinitrophenol          | 330  |          |      |          |      |          | R    |          |      |          |      |
| 4-Nitrophenol              | 330  |          |      |          |      |          | R    |          |      |          |      |
| Dibenzofuran               | 170  | 95       | J    |          |      |          |      |          |      |          |      |
| 2,4-Dinitrotoluene         | 170  |          |      |          |      |          |      |          |      |          |      |
| Diethylphthalate           | 170  |          |      |          |      |          |      |          |      |          |      |
| Fluorene                   | 170  | 200      | J    |          |      |          |      |          |      |          |      |
| 4-Chlorophenyl-phenylether | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Nitroaniline             | 330  |          |      |          |      |          | R    |          |      |          |      |
| 4,6-Dinitro-2-methylphenol | 330  |          |      |          |      |          |      |          |      |          |      |
| N-Nitrosodiphenylamine     | 170  |          |      |          |      |          |      |          |      |          |      |
| 1,2,4,5-Tetrachlorobenzene | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Bromophenyl-phenylether  | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachlorobenzene          | 170  |          |      | 72       | J    |          |      |          |      |          |      |
| Atrazine                   | 170  |          |      |          |      |          |      |          |      |          |      |
| Pentachlorophenol          | 330  |          |      |          |      |          |      |          |      |          |      |
| Phenanthrene               | 170  | 2100     |      | 380      |      | 250      |      | 300      |      | 580      |      |
| Anthracene                 | 170  | 580      |      | 110      | J    |          |      | 100      | J    | 140      | J    |
| Carbazole                  | 170  | 180      | J    | 74       | J    |          |      |          |      |          |      |
| Di-n-butylphthalate        | 170  |          |      |          |      |          |      |          |      |          |      |
| Fluoranthene               | 170  | 3100 +   |      | 620      |      | 430      |      | 460      |      | 1100     |      |
| Pyrene                     | 170  | 2700 +   |      | 590      |      | 360      |      | 410      |      | 800      |      |
| Butylbenzylphthalate       | 170  |          |      | 88       | J    |          |      |          |      |          |      |
| 3,3'-Dichlorobenzidine     | 170  |          |      |          |      |          |      |          |      | 88       | J    |
| Benzo(a)anthracene         | 170  | 1700     |      | 420      |      | 140      | J    | 270      |      | 450      |      |
| Chrysene                   | 170  | 1600     |      | 500      |      | 140      | J    | 300      |      | 480      |      |
| Bis(2-ethylhexyl)phthalate | 170  | 520      |      | 210      |      |          |      |          |      | 300      |      |
| Di-n-octylphthalate        | 170  |          |      |          |      |          |      |          |      |          |      |
| Benzo(b)fluoranthene       | 170  | 1400     |      | 380      |      |          |      | 280      |      | 410      |      |
| Benzo(k)fluoranthene       | 170  | 1600     |      | 370      |      |          |      | 210      | J    | 370      |      |
| Benzo(a)pyrene             | 170  | 1700     |      | 600      |      | 91       | J    | 380      |      | 290      |      |
| Indeno(1,2,3-cd)pyrene     | 170  | 1100     |      |          |      |          |      |          |      | 300      |      |
| Dibenzo(a,h)anthracene     | 170  |          |      |          |      |          |      |          |      |          |      |
| Benzo(g,h,i)perylene       | 170  | 1200     |      | 790      |      |          |      | 460      |      | 300      |      |
| 2,3,4,6-Tetrachlorophenol  | 170  |          |      |          |      |          |      |          |      |          |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]

Revised 09/99

"+" = Results are reported from diluted analyses.

Case #: 40185

SDG : C4598

Site :

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Lab. :

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|                              |      |                 |      |          |      |          |      |                 |      |          |      |
|------------------------------|------|-----------------|------|----------|------|----------|------|-----------------|------|----------|------|
| Sample Number :              |      | C45A3RE         |      | C45A4    |      | C45A5    |      | C45A6RE         |      | C45A7RE  |      |
| Sampling Location :          |      | MC-SD-10        |      | MC-SD-11 |      | MC-SD-12 |      | MC-SD-13        |      | MC-SD-15 |      |
| Field QC :                   |      | Dup. of C45A6RE |      |          |      |          |      | Dup. of C45A3RE |      |          |      |
| Matrix :                     |      | Soil            |      | Soil     |      | Soil     |      | Soil            |      | Soil     |      |
| Units :                      |      | ug/Kg           |      | ug/Kg    |      | ug/Kg    |      | ug/Kg           |      | ug/Kg    |      |
| Date Sampled :               |      | 6/7/2010        |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010        |      | 6/7/2010 |      |
| Time Sampled :               |      | 16:16           |      | 16:08    |      | 16:00    |      | 16:19           |      | 16:00    |      |
| %Moisture :                  |      | 39              |      | 44       |      | 35       |      | 39              |      | 43       |      |
| Dilution Factor :            |      | 0.99            |      | 1.0      |      | 1.0      |      | 0.99            |      | 1.0      |      |
| Semivolatile Compound        | CRQL | Result          | Flag | Result   | Flag | Result   | Flag | Result          | Flag | Result   | Flag |
| Benzaldehyde                 | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| Phenol                       | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| Bis(2-chloroethyl)ether      | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| 2-Chlorophenol               | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| 2-Methylphenol               | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| 2,2'-Oxybis(1-chloropropane) | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| Acetophenone                 | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| 4-Methylphenol               | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| N-Nitroso-di-n-propylamine   | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| Hexachloroethane             | 170  |                 | UJ   |          |      |          |      |                 | UJ   |          | UJ   |
| Nitrobenzene                 | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Isophorone                   | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2-Nitrophenol                | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2,4-Dimethylphenol           | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Bis(2-chloroethoxy)methane   | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2,4-Dichlorophenol           | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Naphthalene                  | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 4-Chloroaniline              | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Hexachlorobutadiene          | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Caprolactam                  | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 4-Chloro-3-methylphenol      | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2-Methylnaphthalene          | 170  | 150             | J    |          |      |          |      |                 |      |          |      |
| Hexachlorocyclopentadiene    | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2,4,6-Trichlorophenol        | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2,4,5-Trichlorophenol        | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 1,1'-Biphenyl                | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2-Chloronaphthalene          | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2-Nitroaniline               | 330  |                 |      |          |      |          |      |                 |      |          |      |
| Dimethylphthalate            | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2,6-Dinitrotoluene           | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Acenaphthylene               | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 3-Nitroaniline               | 330  |                 |      |          |      |          |      |                 |      |          |      |
| Acenaphthene                 | 170  |                 |      |          |      |          |      |                 |      |          |      |

## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C4598

Site :

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Lab. :

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| Sample Number :            |      | C45A3RE         |      | C45A4    |      | C45A5    |      | C45A6RE         |      | C45A7RE  |      |
|----------------------------|------|-----------------|------|----------|------|----------|------|-----------------|------|----------|------|
| Sampling Location :        |      | MC-SD-10        |      | MC-SD-11 |      | MC-SD-12 |      | MC-SD-13        |      | MC-SD-15 |      |
| Field QC :                 |      | Dup. of C45A6RE |      |          |      |          |      | Dup. of C45A3RE |      |          |      |
| Matrix :                   |      | Soil            |      | Soil     |      | Soil     |      | Soil            |      | Soil     |      |
| Units :                    |      | ug/Kg           |      | ug/Kg    |      | ug/Kg    |      | ug/Kg           |      | ug/Kg    |      |
| Date Sampled :             |      | 6/7/2010        |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010        |      | 6/7/2010 |      |
| Time Sampled :             |      | 16:16           |      | 16:08    |      | 16:00    |      | 16:19           |      | 16:00    |      |
| %Moisture :                |      | 39              |      | 44       |      | 35       |      | 39              |      | 43       |      |
| Dilution Factor : .        |      | 0.99            |      | 1.0      |      | 1.0      |      | 0.99            |      | 1.0      |      |
| Semivolatile Compound      | CRQL | Result          | Flag | Result   | Flag | Result   | Flag | Result          | Flag | Result   | Flag |
| 2,4-Dinitrophenol          | 330  |                 |      |          |      |          |      |                 |      |          |      |
| 4-Nitrophenol              | 330  |                 |      |          |      |          |      |                 |      |          |      |
| Dibenzofuran               | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 2,4-Dinitrotoluene         | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Diethylphthalate           | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Fluorene                   | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 4-Chlorophenyl-phenylether | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 4-Nitroaniline             | 330  |                 |      |          |      |          |      |                 |      |          |      |
| 4,6-Dinitro-2-methylphenol | 330  |                 |      |          |      |          |      |                 |      |          |      |
| N-Nitrosodiphenylamine     | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 1,2,4;5-Tetrachlorobenzene | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 4-Bromophenyl-phenylether  | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Hexachlorobenzene          | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Atrazine                   | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Pentachlorophenol          | 330  |                 |      |          |      |          |      |                 |      |          |      |
| Phenanthrene               | 170  | 360             |      | 550      |      |          |      | 190             | J    | 210      | J    |
| Anthracene                 | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Carbazole                  | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Di-n-butylphthalate        | 170  |                 |      |          |      |          |      |                 |      | 120      | J    |
| Fluoranthene               | 170  | 180             | J    | 560      |      |          |      | 390             |      | 270      | J    |
| Pyrene                     | 170  | 210             | J    | 430      |      |          |      | 320             |      | 240      | J    |
| Butylbenzylphthalate       | 170  |                 |      |          |      |          |      |                 |      |          |      |
| 3,3'-Dichlorobenzidine     | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Benzo(a)anthracene         | 170  | 130             | J    | 320      |      |          |      | 210             | J    | 160      | J    |
| Chrysene                   | 170  | 160             | J    | 370      |      |          |      | 220             | J    | 180      | J    |
| Bis(2-ethylhexyl)phthalate | 170  | 350             |      | 370      |      | 2300     |      | 220             | J    | 180      | J    |
| Di-n-octylphthalate        | 170  |                 |      |          |      |          |      |                 |      |          |      |
| Benzo(b)fluoranthene       | 170  | 130             | J    | 250      | J    |          |      | 150             | J    | 120      | J    |
| Benzo(k)fluoranthene       | 170  |                 |      | 280      | J    |          |      | 170             | J    | 150      | J    |
| Benzo(a)pyrene             | 170  | 150             | J    | 320      |      | 110      | J    | 210             | J    | 170      | J    |
| Indeno(1,2,3-cd)pyrene     | 170  |                 |      | 190      | J    |          |      | 120             | J    |          |      |
| Dibenzo(a,h)anthracene     | 170  |                 |      | 130      | J    |          |      |                 |      |          |      |
| Benzo(g,h,i)perylene       | 170  | 120             | J    | 230      | J    |          |      | 150             | J    | 160      | J    |
| 2,3,4,6-Tetrachlorophenol  | 170  |                 |      |          |      |          |      |                 |      |          |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]

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| Sample Number :              |      | C45A8    |      | C45A9    |      | C45B0RE  |      | C45B1RE  |      | C45B2    |      |
|------------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location :          |      | MC-SD-16 |      | MC-SS-01 |      | MC-SS-02 |      | MC-SS-03 |      | MC-SB-04 |      |
| Field QC :                   |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :                     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :                      |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :               |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/8/2010 |      |
| Time Sampled :               |      | 16:30    |      | 11:20    |      | 12:02    |      | 12:40    |      | 15:10    |      |
| %Moisture :                  |      | 51       |      | 3        |      | 5        |      | 4        |      | 6        |      |
| Dilution Factor :            |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound        | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| Benzaldehyde                 | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| Phenol                       | 170  |          |      | 400      | J    |          | UJ   |          | UJ   |          |      |
| Bis(2-chloroethyl)ether      | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| 2-Chlorophenol               | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| 2-Methylphenol               | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| 2,2'-Oxybis(1-chloropropane) | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| Acetophenone                 | 170  |          |      | 130      | J    |          | UJ   |          | UJ   |          |      |
| 4-Methylphenol               | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| N-Nitroso-di-n-propylamine   | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| Hexachloroethane             | 170  |          |      |          | UJ   |          | UJ   |          | UJ   |          |      |
| Nitrobenzene                 | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| Isophorone                   | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| 2-Nitrophenol                | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| 2,4-Dimethylphenol           | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| Bis(2-chloroethoxy)methane   | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| 2,4-Dichlorophenol           | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| Naphthalene                  | 170  |          |      | 88       | J    |          |      |          |      |          |      |
| 4-Chloroaniline              | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| Hexachlorobutadiene          | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| Caprolactam                  | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| 4-Chloro-3-methylphenol      | 170  |          |      |          | UJ   |          |      |          |      |          |      |
| 2-Methylnaphthalene          | 170  |          |      | 71       | J    |          |      |          |      | 81       | J    |
| Hexachlorocyclopentadiene    | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4,6-Trichlorophenol        | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4,5-Trichlorophenol        | 170  |          |      |          |      |          |      |          |      |          |      |
| 1,1'-Biphenyl                | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Chloronaphthalene          | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Nitroaniline               | 330  |          |      |          |      |          |      |          |      |          |      |
| Dimethylphthalate            | 170  |          |      |          |      |          |      | 100      | J    |          |      |
| 2,6-Dinitrotoluene           | 170  |          |      |          |      |          |      |          |      |          |      |
| Acenaphthylene               | 170  |          |      |          |      |          |      |          |      |          |      |
| 3-Nitroaniline               | 330  |          |      |          |      |          |      |          |      |          |      |
| Acenaphthene                 | 170  |          |      |          |      |          |      |          |      |          |      |

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|                            |      |          |      |          |      |          |      |          |      |          |      |
|----------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sample Number :            |      | C45A8    |      | C45A9    |      | C45B0RE  |      | C45B1RE  |      | C45B2    |      |
| Sampling Location :        |      | MC-SD-16 |      | MC-SS-01 |      | MC-SS-02 |      | MC-SS-03 |      | MC-SB-04 |      |
| Field QC :                 |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :                   |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :                    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :             |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/8/2010 |      |
| Time Sampled :             |      | 16:30    |      | 11:20    |      | 12:02    |      | 12:40    |      | 15:10    |      |
| %Moisture :                |      | 51       |      | 3        |      | 5        |      | 4        |      | 6        |      |
| Dilution Factor :          |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound      | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| 2,4-Dinitrophenol          | 330  |          |      |          |      |          |      |          |      |          |      |
| 4-Nitrophenol              | 330  |          |      |          |      |          |      |          |      |          |      |
| Dibenzofuran               | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4-Dinitrotoluene         | 170  |          |      |          |      |          |      |          |      |          |      |
| Diethylphthalate           | 170  |          |      |          |      |          |      |          |      |          |      |
| Fluorene                   | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Chlorophenyl-phenylether | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Nitroaniline             | 330  |          |      |          |      |          |      |          |      |          |      |
| 4,6-Dinitro-2-methylphenol | 330  |          |      |          | R    |          |      |          |      |          |      |
| N-Nitrosodiphenylamine     | 170  |          |      |          |      |          |      |          |      |          |      |
| 1,2,4,5-Tetrachlorobenzene | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Bromophenyl-phenylether  | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachlorobenzene          | 170  |          |      |          |      |          |      |          |      |          |      |
| Atrazine                   | 170  |          |      |          |      |          |      |          |      |          |      |
| Pentachlorophenol          | 330  |          |      |          |      |          |      |          |      |          |      |
| Phenanthrene               | 170  |          |      | 420      |      | 360      | J    | 170      | J    | 140      | J    |
| Anthracene                 | 170  |          |      | 130      | J    |          |      |          |      |          |      |
| Carbazole                  | 170  |          |      | 80       | J    |          |      |          |      |          |      |
| Di-n-butylphthalate        | 170  |          |      |          |      |          |      |          |      |          |      |
| Fluoranthene               | 170  |          |      | 770      |      | 750      | J    | 240      | J    | 230      | J    |
| Pyrene                     | 170  |          |      | 680      |      | 550      |      | 200      |      | 210      |      |
| Butylbenzylphthalate       | 170  |          |      |          |      | 82       | J    |          |      |          |      |
| 3,3'-Dichlorobenzidine     | 170  |          |      |          |      |          |      |          |      |          |      |
| Benzo(a)anthracene         | 170  |          |      | 430      |      | 280      | J    | 96       | J    | 120      | J    |
| Chrysene                   | 170  |          |      | 480      |      | 380      | J    | 120      | J    | 190      | J    |
| Bis(2-ethylhexyl)phthalate | 170  | 150      | J    | 390      |      | 300      |      | 87       | J    |          |      |
| Di-n-octylphthalate        | 170  |          |      |          |      |          |      |          |      |          |      |
| Benzo(b)fluoranthene       | 170  |          |      | 390      |      | 340      | J    | 99       | J    | 190      | J    |
| Benzo(k)fluoranthene       | 170  |          |      | 380      |      | 290      | J    | 100      | J    | 140      | J    |
| Benzo(a)pyrene             | 170  |          |      | 500      |      | 310      | J    | 110      | J    | 120      | J    |
| Indeno(1,2,3-cd)pyrene     | 170  |          |      | 340      |      | 250      | J    | 77       | J    | 110      | J    |
| Dibenzo(a,h)anthracene     | 170  |          |      | 170      | J    | 97       | J    |          |      |          |      |
| Benzo(g,h,i)perylene       | 170  |          |      | 490      |      | 290      |      | 90       | J    | 120      | J    |
| 2,3,4,6-Tetrachlorophenol  | 170  |          |      |          |      |          |      |          |      |          |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / [(100 - %Moisture) / 100]

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|                              |      |          |      |          |      |          |      |          |      |          |      |
|------------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sample Number :              |      | C45B3    |      | C45B4RE  |      | C45B6    |      | C45B7    |      | C45B8    |      |
| Sampling Location :          |      | MC-SD-02 |      | MC-SD-03 |      | MC-SD-17 |      | MC-SD-18 |      | MC-SD-19 |      |
| Field QC :                   |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :                     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :                      |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :               |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      |
| Time Sampled :               |      | 14:30    |      | 14:01    |      | 16:24    |      | 16:14    |      | 16:02    |      |
| %Moisture :                  |      | 35       |      | 26       |      | 43       |      | 48       |      | 40       |      |
| Dilution Factor :            |      | 1.0      |      | 1.0      |      | 1.0      |      | 0.99     |      | 1.0      |      |
| Semivolatile Compound        | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| Benzaldehyde                 | 170  |          |      |          |      |          |      |          |      |          |      |
| Phenol                       | 170  | 300      |      | 210      | J    |          |      |          |      |          |      |
| Bis(2-chloroethyl)ether      | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Chlorophenol               | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Methylphenol               | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,2'-Oxybis(1-chloropropane) | 170  |          |      |          |      |          |      |          |      |          |      |
| Acetophenone                 | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Methylphenol               | 170  |          |      |          |      |          |      |          |      |          |      |
| N-Nitroso-di-n-propylamine   | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachloroethane             | 170  |          |      |          |      |          |      |          |      |          |      |
| Nitrobenzene                 | 170  |          |      |          |      |          |      |          |      |          |      |
| Isophorone                   | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Nitrophenol                | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4-Dimethylphenol           | 170  |          |      |          |      |          |      |          |      |          |      |
| Bis(2-chloroethoxy)methane   | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4-Dichlorophenol           | 170  |          |      |          |      |          |      |          |      |          |      |
| Naphthalene                  | 170  | 120      | J    |          |      |          |      |          |      |          |      |
| 4-Chloroaniline              | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachlorobutadiene          | 170  |          |      |          |      |          |      |          |      |          |      |
| Caprolactam                  | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Chloro-3-methylphenol      | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Methylnaphthalene          | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachlorocyclopentadiene    | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4,6-Trichlorophenol        | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4,5-Trichlorophenol        | 170  |          |      |          |      |          |      |          |      |          |      |
| 1,1'-Biphenyl                | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Chloronaphthalene          | 170  |          |      |          |      |          |      |          |      |          |      |
| 2-Nitroaniline               | 330  |          |      |          |      |          |      |          |      |          |      |
| Dimethylphthalate            | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,6-Dinitrotoluene           | 170  |          |      |          |      |          |      |          |      |          |      |
| Acenaphthylene               | 170  |          |      | 140      | J    |          |      |          |      |          |      |
| 3-Nitroaniline               | 330  |          |      |          |      |          |      |          |      |          |      |
| Acenaphthene                 | 170  |          |      |          |      |          |      |          |      |          |      |

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| Sample Number :            |      | C45B3    |      | C45B4RE  |      | C45B6    |      | C45B7    |      | C45B8    |      |
|----------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location :        |      | MC-SD-02 |      | MC-SD-03 |      | MC-SD-17 |      | MC-SD-18 |      | MC-SD-19 |      |
| Field QC :                 |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :                   |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :                    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :             |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      |
| Time Sampled :             |      | 14:30    |      | 14:01    |      | 16:24    |      | 16:14    |      | 16:02    |      |
| %Moisture :                |      | 35       |      | 26       |      | 43       |      | 48       |      | 40       |      |
| Dilution Factor :          |      | 1.0      |      | 1.0      |      | 1.0      |      | 0.99     |      | 1.0      |      |
| Semivolatile Compound      | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| 2,4-Dinitrophenol          | 330  |          |      |          |      |          |      |          |      |          |      |
| 4-Nitrophenol              | 330  |          |      |          |      |          |      |          |      |          |      |
| Dibenzofuran               | 170  |          |      |          |      |          |      |          |      |          |      |
| 2,4-Dinitrotoluene         | 170  |          |      |          |      |          |      |          |      |          |      |
| Diethylphthalate           | 170  |          |      |          |      |          |      |          |      |          |      |
| Fluorene                   | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Chlorophenyl-phenylether | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Nitroaniline             | 330  |          |      |          |      |          |      |          |      |          |      |
| 4,6-Dinitro-2-methylphenol | 330  |          |      |          |      |          |      |          |      |          |      |
| N-Nitrosodiphenylamine     | 170  |          |      |          |      |          |      |          |      |          |      |
| 1,2,4,5-Tetrachlorobenzene | 170  |          |      |          |      |          |      |          |      |          |      |
| 4-Bromophenyl-phenylether  | 170  |          |      |          |      |          |      |          |      |          |      |
| Hexachlorobenzene          | 170  |          |      |          |      |          |      |          |      |          |      |
| Atrazine                   | 170  |          |      |          |      |          |      |          |      |          |      |
| Pentachlorophenol          | 330  |          |      |          |      |          |      |          |      |          |      |
| Phenanthrene               | 170  | 640      | J    | 650      |      |          |      |          |      |          |      |
| Anthracene                 | 170  | 170      | J    | 200      | J    |          |      |          |      |          |      |
| Carbazole                  | 170  | 110      | J    | 130      | J    |          |      |          |      |          |      |
| Di-n-butylphthalate        | 170  |          |      | 110      | J    |          |      |          |      |          |      |
| Fluoranthene               | 170  | 1200     | J    | 2100     |      |          |      |          |      |          |      |
| Pyrene                     | 170  | 1000     |      | 1200     |      |          |      |          |      |          |      |
| Butylbenzylphthalate       | 170  |          |      | 120      | J    |          |      |          |      |          |      |
| 3,3'-Dichlorobenzidine     | 170  |          |      |          |      |          |      |          |      |          |      |
| Benzo(a)anthracene         | 170  | 640      | J    | 820      |      |          |      |          |      |          |      |
| Chrysene                   | 170  | 720      | J    | 930      | J    |          |      |          |      |          |      |
| Bis(2-ethylhexyl)phthalate | 170  | 580      |      | 410      |      |          |      |          |      |          |      |
| Di-n-octylphthalate        | 170  |          |      |          |      |          |      |          |      |          |      |
| Benzo(b)fluoranthene       | 170  | 610      | J    | 790      |      |          |      |          |      |          |      |
| Benzo(k)fluoranthene       | 170  | 570      | J    | 640      | J    |          |      |          |      |          |      |
| Benzo(a)pyrene             | 170  | 740      | J    | 850      | J    |          |      |          |      |          |      |
| Indeno(1,2,3-cd)pyrene     | 170  | 510      | J    | 560      |      |          |      |          |      |          |      |
| Dibenzo(a,h)anthracene     | 170  | 290      | J    | 280      |      |          |      |          |      |          |      |
| Benzo(g,h,i)perylene       | 170  | 810      |      | 730      |      |          |      |          |      |          |      |
| 2,3,4,6-Tetrachlorophenol  | 170  |          |      |          |      |          |      |          |      |          |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$ 

Revised 09/99

## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C45B5

Number of Soil Samples : 3

Site :

METRO CONTAINER CORP

Number of Water Samples : 2

Lab. :

KAP

| Sample Number :              |      | C45B5    | C45B9    |        | C45C5     |        |      |        |      |
|------------------------------|------|----------|----------|--------|-----------|--------|------|--------|------|
| Sampling Location :          |      | MC-SS-04 | MC-SS-05 |        | MC-SD-01  |        |      |        |      |
| Field QC :                   |      |          |          |        |           |        |      |        |      |
| Matrix :                     |      | Soil     | Soil     |        | Soil      |        |      |        |      |
| Units :                      |      | ug/Kg    | ug/Kg    |        | ug/Kg     |        |      |        |      |
| Date Sampled :               |      | 6/8/2010 | 6/8/2010 |        | 6/10/2010 |        |      |        |      |
| Time Sampled :               |      | 15:00    | 17:24    |        | 16:00     |        |      |        |      |
| %Moisture :                  |      | 5        | 6        |        | 28        |        |      |        |      |
| Dilution Factor :            |      | 1.0      | 1.0      |        | 1.0       |        |      |        |      |
| Semivolatile Compound        | CRQL | Result   | Flag     | Result | Flag      | Result | Flag | Result | Flag |
| Benzaldehyde                 | 170  |          |          |        |           |        |      |        |      |
| Phenol                       | 170  |          |          |        |           |        |      |        |      |
| Bis(2-chloroethyl)ether      | 170  |          |          |        |           |        |      |        |      |
| 2-Chlorophenol               | 170  |          |          |        |           |        |      |        |      |
| 2-Methylphenol               | 170  |          |          |        |           |        |      |        |      |
| 2,2'-Oxybis(1-chloropropane) | 170  |          |          |        |           |        |      |        |      |
| Acetophenone                 | 170  |          |          |        |           |        |      |        |      |
| 4-Methylphenol               | 170  |          |          |        |           |        |      |        |      |
| N-Nitroso-di-n-propylamine   | 170  |          |          |        |           |        |      |        |      |
| Hexachloroethane             | 170  |          |          |        |           |        |      |        |      |
| Nitrobenzene                 | 170  |          |          |        |           |        |      |        |      |
| Isophorone                   | 170  |          |          |        |           |        |      |        |      |
| 2-Nitrophenol                | 170  |          |          |        |           |        |      |        |      |
| 2,4-Dimethylphenol           | 170  |          |          |        |           |        |      |        |      |
| Bis(2-chloroethoxy)methane   | 170  |          |          |        |           |        |      |        |      |
| 2,4-Dichlorophenol           | 170  |          |          |        |           |        |      |        |      |
| Naphthalene                  | 170  |          |          |        |           |        |      |        |      |
| 4-Chloroaniline              | 170  |          |          |        |           |        |      |        |      |
| Hexachlorobutadiene          | 170  |          |          |        |           |        |      |        |      |
| Caprolactam                  | 170  |          |          |        |           |        |      |        |      |
| 4-Chloro-3-methylphenol      | 170  |          |          |        |           |        |      |        |      |
| 2-Methylnaphthalene          | 170  |          |          |        |           |        |      |        |      |
| Hexachlorocyclopentadiene    | 170  |          |          |        |           |        |      |        |      |
| 2,4,6-Trichlorophenol        | 170  |          |          |        |           |        |      |        |      |
| 2,4,5-Trichlorophenol        | 170  |          |          |        |           |        |      |        |      |
| 1,1'-Biphenyl                | 170  |          |          |        |           |        |      |        |      |
| 2-Chloronaphthalene          | 170  |          |          |        |           |        |      |        |      |
| 2-Nitroaniline               | 330  |          |          |        |           |        |      |        |      |
| Dimethylphthalate            | 170  |          |          |        |           |        |      |        |      |
| 2,6-Dinitrotoluene           | 170  |          |          |        |           |        |      |        |      |
| Acenaphthylene               | 170  |          |          |        |           | 120    | J    |        |      |
| 3-Nitroaniline               | 330  |          |          |        |           |        |      |        |      |
| Acenaphthene                 | 170  |          |          |        |           |        |      |        |      |

## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C45B5

Site :

METRO CONTAINER CORP

Lab. :

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| Sample Number :            |      | C45B5    | C45B9    |        | C45C5     |        |      |        |      |        |      |
|----------------------------|------|----------|----------|--------|-----------|--------|------|--------|------|--------|------|
| Sampling Location :        |      | MC-SS-04 | MC-SS-05 |        | MC-SD-01  |        |      |        |      |        |      |
| Field QC :                 |      |          |          |        |           |        |      |        |      |        |      |
| Matrix :                   |      | Soil     | Soil     |        | Soil      |        |      |        |      |        |      |
| Units :                    |      | ug/Kg    | ug/Kg    |        | ug/Kg     |        |      |        |      |        |      |
| Date Sampled :             |      | 6/8/2010 | 6/8/2010 |        | 6/10/2010 |        |      |        |      |        |      |
| Time Sampled :             |      | 15:00    | 17:24    |        | 16:00     |        |      |        |      |        |      |
| %Moisture :                |      | 5        | 6        |        | 28        |        |      |        |      |        |      |
| Dilution Factor :          |      | 1.0      | 1.0      |        | 1.0       |        |      |        |      |        |      |
| Semivolatile Compound      | CRQL | Result   | Flag     | Result | Flag      | Result | Flag | Result | Flag | Result | Flag |
| 2,4-Dinitrophenol          | 330  |          |          |        |           |        |      |        |      |        |      |
| 4-Nitrophenol              | 330  |          |          |        |           |        |      |        |      |        |      |
| Dibenzofuran               | 170  |          |          |        |           |        |      |        |      |        |      |
| 2,4-Dinitrotoluene         | 170  |          |          |        |           |        |      |        |      |        |      |
| Diethylphthalate           | 170  |          |          |        |           |        |      |        |      |        |      |
| Fluorene                   | 170  |          |          |        |           |        |      |        |      |        |      |
| 4-Chlorophenyl-phenylether | 170  |          |          |        |           |        |      |        |      |        |      |
| 4-Nitroaniline             | 330  |          |          |        |           |        |      |        |      |        |      |
| 4,6-Dinitro-2-methylphenol | 330  |          |          |        |           |        |      |        |      |        |      |
| N-Nitrosodiphenylamine     | 170  |          |          |        |           |        |      |        |      |        |      |
| 1,2,4,5-Tetrachlorobenzene | 170  |          |          |        |           |        |      |        |      |        |      |
| 4-Bromophenyl-phenylether  | 170  |          |          |        |           |        |      |        |      |        |      |
| Hexachlorobenzene          | 170  |          |          |        |           |        |      |        |      |        |      |
| Atrazine                   | 170  |          |          |        |           |        |      |        |      |        |      |
| Pentachlorophenol          | 330  |          |          |        |           |        |      |        |      |        |      |
| Phenanthrene               | 170  | 120      | J        | 440    |           | 360    |      |        |      |        |      |
| Anthracene                 | 170  |          |          | 90     | J         |        |      |        |      |        |      |
| Carbazole                  | 170  |          |          |        |           |        |      |        |      |        |      |
| Di-n-butylphthalate        | 170  |          |          |        |           | 93     | J    |        |      |        |      |
| Fluoranthene               | 170  | 450      |          | 830    |           | 1200   |      |        |      |        |      |
| Pyrene                     | 170  | 340      |          | 650    |           | 770    |      |        |      |        |      |
| Butylbenzylphthalate       | 170  |          |          |        |           |        |      |        |      |        |      |
| 3,3'-Dichlorobenzidine     | 170  |          |          |        |           |        |      |        |      |        |      |
| Benzo(a)anthracene         | 170  | 200      |          | 370    |           | 490    |      |        |      |        |      |
| Chrysene                   | 170  | 290      | J        | 400    | J         | 520    | J    |        |      |        |      |
| Bis(2-ethylhexyl)phthalate | 170  | 80       | J        |        |           | 690    |      |        |      |        |      |
| Di-n-octylphthalate        | 170  |          |          |        |           |        |      |        |      |        |      |
| Benzo(b)fluoranthene       | 170  | 270      |          | 300    |           | 420    |      |        |      |        |      |
| Benzo(k)fluoranthene       | 170  | 220      | J        | 320    | J         | 510    | J    |        |      |        |      |
| Benzo(a)pyrene             | 170  | 170      | J        | 350    | J         | 500    | J    |        |      |        |      |
| Indeno(1,2,3-cd)pyrene     | 170  | 150      | J        | 230    |           | 350    |      |        |      |        |      |
| Dibenzo(a,h)anthracene     | 170  | 77       | J        | 120    | J         | 130    | J    |        |      |        |      |
| Benzo(g,h,i)perylene       | 170  | 160      | J        | 260    |           | 360    |      |        |      |        |      |
| 2,3,4,6-Tetrachlorophenol  | 170  |          |          |        |           |        |      |        |      |        |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$ 

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## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C45B5

Site :

METRO CONTAINER CORP

Lab. :

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|                              |      |             |               |        |      |        |      |        |      |
|------------------------------|------|-------------|---------------|--------|------|--------|------|--------|------|
| Sample Number :              |      | C45C3       | C45C4         |        |      |        |      |        |      |
| Sampling Location :          |      | MC-FB-01    | MC-RB-01      |        |      |        |      |        |      |
| Field QC :                   |      | Field Blank | Rinsate Blank |        |      |        |      |        |      |
| Matrix :                     |      | Water       | Water         |        |      |        |      |        |      |
| Units :                      |      | ug/L        | ug/L          |        |      |        |      |        |      |
| Date Sampled :               |      | 6/8/2010    | 6/8/2010      |        |      |        |      |        |      |
| Time Sampled :               |      | 13:30       | 17:41         |        |      |        |      |        |      |
| Dilution Factor :            |      | 1.0         | 1.0           |        |      |        |      |        |      |
| Semivolatle Compound         | CRQL | Result      | Flag          | Result | Flag | Result | Flag | Result | Flag |
| Benzaldehyde                 | 5.0  |             |               |        |      |        |      |        |      |
| Phenol                       | 5.0  |             |               |        |      |        |      |        |      |
| Bis(2-chloroethyl)ether      | 5.0  |             |               |        |      |        |      |        |      |
| 2-Chlorophenol               | 5.0  |             |               |        |      |        |      |        |      |
| 2-Methylphenol               | 5.0  |             |               |        |      |        |      |        |      |
| 2,2'-Oxybis(1-chloropropane) | 5.0  |             |               |        |      |        |      |        |      |
| Acetophenone                 | 5.0  |             |               |        |      |        |      |        |      |
| 4-Methylphenol               | 5.0  |             |               |        |      |        |      |        |      |
| N-Nitroso-di-n-propylamine   | 5.0  |             |               |        |      |        |      |        |      |
| Hexachloroethane             | 5.0  |             |               |        |      |        |      |        |      |
| Nitrobenzene                 | 5.0  |             |               |        |      |        |      |        |      |
| Isophorone                   | 5.0  |             |               |        |      |        |      |        |      |
| 2-Nitrophenol                | 5.0  |             |               |        |      |        |      |        |      |
| 2,4-Dimethylphenol           | 5.0  |             |               |        |      |        |      |        |      |
| Bis(2-chloroethoxy)methane   | 5.0  |             |               |        |      |        |      |        |      |
| 2,4-Dichlorophenol           | 5.0  |             |               |        |      |        |      |        |      |
| Naphthalene                  | 5.0  |             |               |        |      |        |      |        |      |
| 4-Chloroaniline              | 5.0  |             |               |        |      |        |      |        |      |
| Hexachlorobutadiene          | 5.0  |             |               |        |      |        |      |        |      |
| Caprolactam                  | 5.0  |             |               |        |      |        |      |        |      |
| 4-Chloro-3-methylphenol      | 5.0  |             |               |        |      |        |      |        |      |
| 2-Methylnaphthalene          | 5.0  |             |               |        |      |        |      |        |      |
| Hexachlorocyclopentadiene    | 5.0  |             |               |        |      |        |      |        |      |
| 2,4,6-Trichlorophenol        | 5.0  |             |               |        |      |        |      |        |      |
| 2,4,5-Trichlorophenol        | 5.0  |             |               |        |      |        |      |        |      |
| 1,1'-Biphenyl                | 5.0  |             |               |        |      |        |      |        |      |
| 2-Chloronaphthalene          | 5.0  |             |               |        |      |        |      |        |      |
| 2-Nitroaniline               | 10   |             |               |        |      |        |      |        |      |
| Dimethylphthalate            | 5.0  |             |               |        |      |        |      |        |      |
| 2,6-Dinitrotoluene           | 5.0  |             |               |        |      |        |      |        |      |
| Acenaphthylene               | 5.0  |             |               |        |      |        |      |        |      |
| 3-Nitroaniline               | 10   |             |               |        |      |        |      |        |      |
| Acenaphthene                 | 5.0  |             |               |        |      |        |      |        |      |

## DATA SUMMARY FORM: BNA

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Case #: 40185

SDG : C45B5

Site :

METRO CONTAINER CORP

Lab. :

KAP

| Sample Number :            |      | C45C3       | C45C4         |        |      |        |      |        |      |        |      |
|----------------------------|------|-------------|---------------|--------|------|--------|------|--------|------|--------|------|
| Sampling Location :        |      | MC-FB-01    | MC-RB-01      |        |      |        |      |        |      |        |      |
| Field QC :                 |      | Field Blank | Rinsate Blank |        |      |        |      |        |      |        |      |
| Matrix :                   |      | Water       | Water         |        |      |        |      |        |      |        |      |
| Units :                    |      | ug/L        | ug/L          |        |      |        |      |        |      |        |      |
| Date Sampled :             |      | 6/8/2010    | 6/8/2010      |        |      |        |      |        |      |        |      |
| Time Sampled :             |      | 13:30       | 17:41         |        |      |        |      |        |      |        |      |
| Dilution Factor :          |      | 1.0         | 1.0           |        |      |        |      |        |      |        |      |
| Semivolatile Compound      | CRQL | Result      | Flag          | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 2,4-Dinitrophenol          | 10   |             |               |        |      |        |      |        |      |        |      |
| 4-Nitrophenol              | 10   |             |               |        |      |        |      |        |      |        |      |
| Dibenzofuran               | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 2,4-Dinitrotoluene         | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Diethylphthalate           | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Fluorene                   | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 4-Chlorophenyl-phenylether | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 4-Nitroaniline             | 10   |             |               |        |      |        |      |        |      |        |      |
| 4,6-Dinitro-2-methylphenol | 10   |             |               |        |      |        |      |        |      |        |      |
| N-Nitrosodiphenylamine     | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 1,2,4,5-Tetrachlorobenzene | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 4-Bromophenyl-phenylether  | 5.0  |             |               |        |      |        |      |        |      |        |      |
| *Hexachlorobenzene         | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Atrazine                   | 5.0  |             |               |        |      |        |      |        |      |        |      |
| *Pentachlorophenol         | 10   |             |               |        |      |        |      |        |      |        |      |
| Phenanthrene               | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Anthracene                 | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Carbazole                  | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Di-n-butylphthalate        | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Fluoranthene               | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Pyrene                     | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Butylbenzylphthalate       | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 3,3'-Dichlorobenzidine     | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Benzo(a)anthracene         | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Chrysene                   | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Bis(2-ethylhexyl)phthalate | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Di-n-octylphthalate        | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Benzo(b)fluoranthene       | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Benzo(k)fluoranthene       | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Benzo(a)pyrene             | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Indeno(1,2,3-cd)pyrene     | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Dibenzo(a,h)anthracene     | 5.0  |             |               |        |      |        |      |        |      |        |      |
| Benzo(g,h,i)perylene       | 5.0  |             |               |        |      |        |      |        |      |        |      |
| 2,3,4,6-Tetrachlorophenol  | 5.0  |             |               |        |      |        |      |        |      |        |      |

CRQL = Contract Required Quantitation Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor)

Revised 09/99



## DATA SUMMARY FORM: Aroclor

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Case #: 40185

SDG : C4598

Number of Soil Samples : 20

Site :

METRO CONTAINER CORP

Number of Water Samples : 0

Lab. :

KAP

| Sample Number :     |      | C4598    |      | C4599    |      | C45A0    |      | C45A1    |      | C45A2    |      |
|---------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location : |      | MC-SB-02 |      | MC-SB-03 |      | MC-SD-05 |      | MC-SD-06 |      | MC-SD-07 |      |
| Field QC :          |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :            |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :             |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      | ug/Kg    |      |
| Date Sampled :      |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      |
| Time Sampled :      |      | 12:11    |      | 12:48    |      | 12:35    |      | 12:05    |      | 11:40    |      |
| %Moisture :         |      | 6        |      | 6        |      | 19       |      | 33       |      | 21       |      |
| Dilution Factor :   |      | 1.0/10   |      | 1.0      |      | 0.99     |      | 0.99     |      | 1.0      |      |
| Aroclor Compound    | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| Aroclor-1016        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1221        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1232        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1242        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1248        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1254        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1260        | 33   | 930 +    | J    |          |      |          |      |          |      |          |      |
| Aroclor-1262        | 33   |          |      |          |      |          |      |          |      |          |      |
| Aroclor-1268        | 33   |          |      |          |      |          |      |          |      |          |      |

| Sample Number :     |      | C45A3         |      | C45A4    |      | C45A5    |      | C45A6         |      | C45A7    |      |
|---------------------|------|---------------|------|----------|------|----------|------|---------------|------|----------|------|
| Sampling Location : |      | MC-SD-10      |      | MC-SD-11 |      | MC-SD-12 |      | MC-SD-13      |      | MC-SD-15 |      |
| Field QC :          |      | Dup. of C45A6 |      |          |      |          |      | Dup. of C45A3 |      |          |      |
| Matrix :            |      | Soil          |      | Soil     |      | Soil     |      | Soil          |      | Soil     |      |
| Units :             |      | ug/Kg         |      | ug/Kg    |      | ug/Kg    |      | ug/Kg         |      | ug/Kg    |      |
| Date Sampled :      |      | 6/7/2010      |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010      |      | 6/7/2010 |      |
| Time Sampled :      |      | 16:16         |      | 16:08    |      | 16:00    |      | 16:19         |      | 16:00    |      |
| %Moisture :         |      | 39            |      | 44       |      | 35       |      | 39            |      | 43       |      |
| Dilution Factor :   |      | 1.0           |      | 1.0      |      | 1.0      |      | 1.0           |      | 0.99     |      |
| Aroclor Compound    | CRQL | Result        | Flag | Result   | Flag | Result   | Flag | Result        | Flag | Result   | Flag |
| Aroclor-1016        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1221        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1232        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1242        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1248        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1254        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1260        | 33   | 64            | J    | 140      | J    | 27       | J    | 27            | J    |          |      |
| Aroclor-1262        | 33   |               |      |          |      |          |      |               |      |          |      |
| Aroclor-1268        | 33   |               |      |          |      |          |      |               |      |          |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$ 

Revised 09/99

"++" = The result is reported from diluted analyses.

AR103542

## DATA SUMMARY FORM: Aroclor

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Case #: 40185

SDG : C4598

Site :

METRO CONTAINER CORP

Lab. :

KAP

|                     |          |          |           |           |          |
|---------------------|----------|----------|-----------|-----------|----------|
| Sample Number :     | C45A8    | C45A9    | C45B0     | C45B1     | C45B2    |
| Sampling Location : | MC-SD-16 | MC-SS-01 | MC-SS-02  | MC-SS-03  | MC-SB-04 |
| Field QC :          |          |          |           |           |          |
| Matrix :            | Soil     | Soil     | Soil      | Soil      | Soil     |
| Units :             | ug/Kg    | ug/Kg    | ug/Kg     | ug/Kg     | ug/Kg    |
| Date Sampled :      | 6/7/2010 | 6/7/2010 | 6/7/2010  | 6/7/2010  | 6/8/2010 |
| Time Sampled :      | 16:30    | 11:20    | 12:02     | 12:40     | 15:10    |
| %Moisture :         | 51       | 3        | 5         | 4         | 6        |
| Dilution Factor :   | 1.0      | 1.0      | 0.99/4.97 | 0.99/4.98 | 0.99     |
| Aroclor Compound    | CRQL     | Result   | Flag      | Result    | Flag     |
| Aroclor-1016        | 33       |          |           |           |          |
| Aroclor-1221        | 33       |          |           |           |          |
| Aroclor-1232        | 33       |          |           |           |          |
| Aroclor-1242        | 33       |          |           |           |          |
| Aroclor-1248        | 33       |          |           |           |          |
| Aroclor-1254        | 33       |          |           |           |          |
| Aroclor-1260        | 33       | 37       | J         | 1100 +    | J        |
| Aroclor-1262        | 33       |          |           | 750 +     |          |
| Aroclor-1268        | 33       |          |           |           | 230      |

|                     |          |          |          |          |          |
|---------------------|----------|----------|----------|----------|----------|
| Sample Number :     | C45B3    | C45B4    | C45B6    | C45B7    | C45B8    |
| Sampling Location : | MC-SD-02 | MC-SD-03 | MC-SD-17 | MC-SD-18 | MC-SD-19 |
| Field QC :          |          |          |          |          |          |
| Matrix :            | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units :             | ug/Kg    | ug/Kg    | ug/Kg    | ug/Kg    | ug/Kg    |
| Date Sampled :      | 6/8/2010 | 6/8/2010 | 6/8/2010 | 6/8/2010 | 6/8/2010 |
| Time Sampled :      | 14:30    | 14:01    | 16:24    | 16:14    | 16:02    |
| %Moisture :         | 35       | 26       | 43       | 48       | 40       |
| Dilution Factor :   | 1.0      | 0.99     | 1.0      | 1.0      | 0.99     |
| Aroclor Compound    | CRQL     | Result   | Flag     | Result   | Flag     |
| Aroclor-1016        | 33       |          |          |          |          |
| Aroclor-1221        | 33       |          |          |          |          |
| Aroclor-1232        | 33       |          |          |          |          |
| Aroclor-1242        | 33       |          |          |          |          |
| Aroclor-1248        | 33       |          |          |          |          |
| Aroclor-1254        | 33       |          |          |          |          |
| Aroclor-1260        | 33       |          |          |          |          |
| Aroclor-1262        | 33       |          |          |          |          |
| Aroclor-1268        | 33       |          |          |          |          |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$ 

Revised 09/99

"+" = Results are reported from diluted analyses.

AR103543

## DATA SUMMARY FORM: Aroclor

Page \_\_15\_\_ of \_\_15\_\_

Case #: 40185

SDG : C45B5

Number of Soil Samples : 3

Site :

METRO CONTAINER CORP

Number of Water Samples : 2

Lab. :

KAP

| Sample Number :     |      | C45B5    |      | C45B9    |      | C45C5     |      |        |      |        |      |
|---------------------|------|----------|------|----------|------|-----------|------|--------|------|--------|------|
| Sampling Location : |      | MC-SS-04 |      | MC-SS-05 |      | MC-SD-01  |      |        |      |        |      |
| Field QC :          |      |          |      |          |      |           |      |        |      |        |      |
| Matrix :            |      | Soil     |      | Soil     |      | Soil      |      |        |      |        |      |
| Units :             |      | ug/Kg    |      | ug/Kg    |      | ug/Kg     |      |        |      |        |      |
| Date Sampled :      |      | 6/8/2010 |      | 6/8/2010 |      | 6/10/2010 |      |        |      |        |      |
| Time Sampled :      |      | 15:00    |      | 17:24    |      | 16:00     |      |        |      |        |      |
| %Moisture :         |      | 5        |      | 6        |      | 28        |      |        |      |        |      |
| Dilution Factor :   |      | 1.0      |      | 1.0      |      | 1.0       |      |        |      |        |      |
| Aroclor Compound    | CRQL | Result   | Flag | Result   | Flag | Result    | Flag | Result | Flag | Result | Flag |
| Aroclor-1016        | 33   |          | UJ   | 8.5      | J    |           |      |        |      |        |      |
| Aroclor-1221        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |
| Aroclor-1232        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |
| Aroclor-1242        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |
| Aroclor-1248        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |
| Aroclor-1254        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |
| Aroclor-1260        | 33   | 61       | J    | 4.9      | J    |           |      |        |      |        |      |
| Aroclor-1262        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |
| Aroclor-1268        | 33   |          | UJ   |          | UJ   |           |      |        |      |        |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$ 

Revised 09/99

|                     |      |             |      |               |      |        |      |        |      |        |      |
|---------------------|------|-------------|------|---------------|------|--------|------|--------|------|--------|------|
| Sample Number :     |      | C45C3       |      | C45C4         |      |        |      |        |      |        |      |
| Sampling Location : |      | MC-FB-01    |      | MC-RB-01      |      |        |      |        |      |        |      |
| Field QC :          |      | Field Blank |      | Rinsate Blank |      |        |      |        |      |        |      |
| Matrix :            |      | Water       |      | Water         |      |        |      |        |      |        |      |
| Units :             |      | ug/L        |      | ug/L          |      |        |      |        |      |        |      |
| Date Sampled :      |      | 6/8/2010    |      | 6/8/2010      |      |        |      |        |      |        |      |
| Time Sampled :      |      | 13:30       |      | 17:41         |      |        |      |        |      |        |      |
| Dilution Factor :   |      | 1.0         |      | 1.0           |      |        |      |        |      |        |      |
| Aroclor Compound    | CRQL | Result      | Flag | Result        | Flag | Result | Flag | Result | Flag | Result | Flag |
| *Aroclor-1016       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1221       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1232       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1242       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1248       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1254       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1260       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1262       | 1.0  |             |      |               |      |        |      |        |      |        |      |
| *Aroclor-1268       | 1.0  |             |      |               |      |        |      |        |      |        |      |

CRQL = Contract Required Quantitation Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits:  $(CRQL * Dilution Factor)$ 

Revised 09/99

AR103544

## **Appendix C**

### **Chain of Custody (COC) Records**

**EPA USEPA Contract Laboratory Program**  
**Organic Traffic Report & Chain of Custody Record**

Case No: 40185

DAS No:

**R**

|  |  |                               |                           |
|--|--|-------------------------------|---------------------------|
| Region: 3  | Date Shipped: 6/8/2010   | Chain of Custody Record       | Sampler Signature:        |
| Project Code:                                    | Carrier Name: FedEx  |                               |                           |
| Account Code:                                    | Airbill: 8731 0479 8162  | Relinquished By (Date / Time) | Received By (Date / Time) |
| CERCLIS ID: PAD044545895                         | Shipped to: KAP Technologies Inc<br>9391 Grogans Mill Rd,<br>Suite A-2<br>The Woodlands TX 77380<br>(281) 367-0065 | 1 [REDACTED] 6/8/10 8:00      |                           |
| Spill ID: [REDACTED]                             |  | 2                             |                           |
| Site Name/State: Metro Container Corp Project/PA |  | 3                             |                           |
| Project Leader: [REDACTED]                       |  | 4                             |                           |
| Action: Expanded Site Investigation/RI           |  |                               |                           |
| Sampling Co: Tetra Tech                          |  |                               |                           |

| ORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER         | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | INORGANIC<br>SAMPLE No. | QC<br>Type            |
|-----------------------|----------------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|-------|-------------------------|-----------------------|
| C4598                 | Soil (>12")/<br>[REDACTED] | M/G           | CLP SV/PCB (14)         | 436 (Ice Only) (1)               | MC-SB-02            | S: 6/7/2010                 | 12:11 | MC4598                  | -                     |
| C4599                 | Soil (>12")/<br>[REDACTED] | M/G           | CLP SV/PCB (14)         | 438 (Ice Only) (1)               | MC-SB-03            | S: 6/7/2010                 | 12:48 | MC4599                  | -                     |
| C45A0                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 440 (Ice Only) (1)               | MC-SD-05            | S: 6/7/2010                 | 12:35 | MC45A0                  | -                     |
| C45A1                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 442 (Ice Only) (1)               | MC-SD-06            | S: 6/7/2010                 | 12:05 | MC45A1                  | -                     |
| C45A2                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 444 (Ice Only) (1)               | MC-SD-07            | S: 6/7/2010                 | 11:40 | MC45A2                  | -                     |
| C45A3                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 446 (Ice Only) (1)               | MC-SD-10            | S: 6/7/2010                 | 16:16 | MC45A3                  | -                     |
| C45A4                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 448 (Ice Only) (1)               | MC-SD-11            | S: 6/7/2010                 | 16:08 | MC45A4                  | -                     |
| C45A5                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 450 (Ice Only) (1)               | MC-SD-12            | S: 6/7/2010                 | 16:00 | MC45A5                  | -                     |
| C45A6                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 452 (Ice Only) (1)               | MC-SD-13            | S: 6/7/2010                 | 16:19 | MC45A6                  | Duplicate of MC-SD-10 |
| C45A7                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 454 (Ice Only) (1)               | MC-SD-15            | S: 6/7/2010                 | 16:00 | MC45A7                  | -                     |
| C45A8                 | Sediment/<br>[REDACTED]    | M/G           | CLP SV/PCB (14)         | 456 (Ice Only) (1)               | MC-SD-16            | S: 6/7/2010                 | 16:30 | MC45A8                  | -                     |

|  |  |  |                               |
|--|--|--|-------------------------------|
| Shipment for Case Complete? N                      | Sample(s) to be used for laboratory QC:<br>C45A8 | Additional Sampler Signature(s):<br>[REDACTED] | Chain of Custody Seal Number: |
| Analysis Key:                                      | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G        | Shipment Iced? _____          |
| CLP SV/PCB = CLP Semivolatiles and Aroclors - soil |  |  |                               |

TR Number: 3-242195023-060810-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [REDACTED], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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AR103546





USEPA Contract Laboratory Program  
Organic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |  |   |                               |
|--|--|---|-------------------------------|
| Region: 3                                | Date Shipped: 6/9/2010   | Chain of Custody Record                   | Sampler Signature: [Redacted] |
| Project Code:                            | Carrier Name: FedEx  | Relinquished By: [Redacted] (Date / Time) | Received By: (Date / Time)    |
| Account Code:                            | Airbill: 8731 0479 8129  | 6-9-10 1500                               |                               |
| CERCLIS ID: PAD044545895                 | Shipped to: KAP Technologies Inc<br>9391 Grogans Mill Rd,<br>Suite A-2<br>The Woodlands TX 77380<br>(281) 367-0065 | 2   |                               |
| Spill ID:                                |  | 3   |                               |
| Site Name/State: Metro Container Corp/PA |  | 4   |                               |
| Project Leader: [Redacted]               |  |   |                               |
| Action: Expanded Site Investigation/RI   |  |   |                               |
| Sampling Co: Tetra Tech                  |  |   |                               |

| ORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER           | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No./<br>PRESERVATIVE/ Bottles  | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | INORGANIC<br>SAMPLE No. | QC<br>Type  |
|-----------------------|------------------------------|---------------|-------------------------|--|---------------------|-----------------------------|-------|-------------------------|-------------|
| C45B6                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 496 (Ice Only) (1)   | MC-SD-17            | S: 6/8/2010                 | 16:24 | MC45B6                  | -           |
| C45B7                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 498 (Ice Only) (1)   | MC-SD-18            | S: 6/8/2010                 | 16:14 | MC45B7                  | -           |
| C45B8                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 500 (Ice Only) (1)   | MC-SD-19            | S: 6/8/2010                 | 16:02 | MC45B8                  | -           |
| C45B9                 | Soil (0"-12")/<br>[Redacted] | M/G           | CLP SV/PCB (14)         | 502 (Ice Only) (1)   | MC-SS-05            | S: 6/8/2010                 | 17:24 | MC45B9                  | -           |
| C45C3                 | Field QC/<br>[Redacted]      | M/G           | W- SV/PCB (14)          | 518 (Ice Only), 519 (Ice<br>Only), 520 (Ice Only), 521<br>(Ice Only) (4) | MC-FB-01            | S: 6/8/2010                 | 13:30 | MC45C3                  | Field Blank |
| C45C4                 | Field QC/<br>[Redacted]      | M/G           | W- SV/PCB (14)          | 523 (Ice Only), 524 (Ice<br>Only), 525 (Ice Only), 526<br>(Ice Only) (4) | MC-RB-01            | S: 6/8/2010                 | 17:41 | MC45C4                  | Rinsate     |

|  |  |   |                               |
|--|--|---|-------------------------------|
| Shipment for Case<br>Complete? Y   | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Chain of Custody Seal Number: |
| Analysis Key:  | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Shipment Iced? _____          |
| CLP SV/PCB = CLP Semivolatiles and Aroclors - soil, W- SV/PCB = CLP-Water TCL Semivolatiles and Aroclors |  |   |                               |

TR Number: 3-242195023-060910-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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AR103547





USEPA Contract Laboratory Program  
Organic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |  |                               |                           |
|--|--|-------------------------------|---------------------------|
| Region: 3  | Date Shipped: 6/8/2010   | Chain of Custody Record       | Sampler Signature:        |
| Project Code:                                    | Carrier Name: FedEx  | Relinquished By (Date / Time) | Received By (Date / Time) |
| Account Code:                                    | Airbill: 8731 0479 8162  |                               |                           |
| CERCLIS ID: PAD044545895                         | Shipped to: KAP Technologies Inc<br>9391 Grogans Mill Rd,<br>Suite A-2<br>The Woodlands TX 77380<br>(281) 367-0065 | 4/8/10 1700                   |                           |
| Spill ID:  |  | 2                             |                           |
| Site Name/State: Metro Container Corp Project/PA |  | 3                             |                           |
| Project Leader:                                  |  | 4                             |                           |
| Action: Expanded Site Investigation/RI           |  |                               |                           |
| Sampling Co: Tetra Tech                          |  |                               |                           |

| ORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER           | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No./<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | INORGANIC<br>SAMPLE No. | QC<br>Type |
|-----------------------|------------------------------|---------------|-------------------------|-----------------------------------|---------------------|-----------------------------|-------|-------------------------|------------|
| C45A9                 | Soil (0"-12")/<br>[REDACTED] | M/G           | CLP SV/PCB (14)         | 458 (Ice Only) (1)                | MC-SS-01            | S: 6/7/2010                 | 11:20 | MC45A9                  | -          |
| C45B0                 | Soil (0"-12")/<br>[REDACTED] | M/G           | CLP SV/PCB (14)         | 460 (Ice Only) (1)                | MC-SS-02            | S: 6/7/2010                 | 12:02 | MC45B0                  | -          |
| C45B1                 | Soil (0"-12")/<br>[REDACTED] | M/G           | CLP SV/PCB (14)         | 462 (Ice Only) (1)                | MC-SS-03            | S: 6/7/2010                 | 12:40 | MC45B1                  | -          |

|  |  |  |                               |
|--|--|--|-------------------------------|
| Shipment for Case Complete? N                      | Sample(s) to be used for laboratory QC:<br>C45A8 | Additional Sampler Signature(s):<br>[REDACTED] | Chain of Custody Seal Number: |
| Analysis Key:                                      | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G        | Shipment Iced? _____          |
| CLP SV/PCB = CLP Semivolatiles and Aroclors - soil |  |  |                               |

TR Number: 3-242195023-060810-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [REDACTED] CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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USEPA Contract Laboratory Program  
Organic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |  |                             |                               |
|--|--|-----------------------------|-------------------------------|
| Region: 3                                | Date Shipped: 6/9/2010   | Chain of Custody Record     | Sampler Signature: [Redacted] |
| Project Code:                            | Carrier Name: FedEx  | Relinquished By: [Redacted] | Received By: [Redacted]       |
| Account Code:                            | Airbill: 8731 0479 8129  | (Date / Time) 6-9-10 1520   | (Date / Time)                 |
| CERCLIS ID: PAD044545895                 | Shipped to: KAP Technologies Inc<br>9391 Grogans Mill Rd,<br>Suite A-2<br>The Woodlands TX 77380<br>(281) 367-0065 | 2                           |                               |
| Spill ID:                                |  | 3                           |                               |
| Site Name/State: Metro Container Corp/PA |  | 4                           |                               |
| Project Leader: [Redacted]               |  |                             |                               |
| Action: Expanded Site Investigation/RI   |  |                             |                               |
| Sampling Co: Tetra Tech                  |  |                             |                               |

| ORGANIC<br>SAMPLE No. | MATRDX<br>SAMPLER            | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles   | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | INORGANIC<br>SAMPLE No. | QC<br>Type  |
|-----------------------|------------------------------|---------------|-------------------------|--|---------------------|-----------------------------|-------|-------------------------|-------------|
| C45B6                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 496 (Ice Only) (1)   | MC-SD-17            | S: 6/8/2010                 | 16:24 | MC45B6                  | -           |
| C45B7                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 498 (Ice Only) (1)   | MC-SD-18            | S: 6/8/2010                 | 16:14 | MC45B7                  | -           |
| C45B8                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 500 (Ice Only) (1)   | MC-SD-19            | S: 6/8/2010                 | 16:02 | MC45B8                  | -           |
| C45B9                 | Soil (0"-12")/<br>[Redacted] | M/G           | CLP SV/PCB (14)         | 502 (Ice Only) (1)   | MC-SS-05            | S: 6/8/2010                 | 17:24 | MC45B9                  | -           |
| C45C3                 | Field QC/<br>[Redacted]      | M/G           | W- SV/PCB (14)          | 518 (Ice Only), 519 (Ice<br>Only), 520 (Ice Only), 521<br>(Ice Only) (4) | MC-FB-01            | S: 6/8/2010                 | 13:30 | MC45C3                  | Field Blank |
| C45C4                 | Field QC/<br>[Redacted]      | M/G           | W- SV/PCB (14)          | 523 (Ice Only), 524 (Ice<br>Only), 525 (Ice Only), 526<br>(Ice Only) (4) | MC-RB-01            | S: 6/8/2010                 | 17:41 | MC45C4                  | Rinsate     |

|  |  |   |                               |
|--|--|---|-------------------------------|
| Shipment for Case Complete? Y  | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Chain of Custody Seal Number: |
| Analysis Key:  | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Shipment Iced? _____          |
| CLP SV/PCB = CLP Semivolatiles and Aroclors - soil, W- SV/PCB = CLP-Water TCL Semivolatiles and Aroclors |  |   |                               |

TR Number: 3-242195023-060910-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted] CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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F2V5.1.047 Page 1 of 1

AR103549



USEPA Contract Laboratory Program  
Organic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |  |                               |                               |
|--|--|-------------------------------|-------------------------------|
| Region: 3                                | Date Shipped: 6/9/2010   | Chain of Custody Record       | Sampler Signature: [Redacted] |
| Project Code:                            | Carrier Name: FedEx  | Relinquished By (Date / Time) | Received By (Date / Time)     |
| Account Code:                            | Airbill: 8731 0479 8129  | 1 [Redacted] 6-9-10 1500      |                               |
| CERCLIS ID: PAD044545895                 | Shipped to: KAP Technologies Inc<br>9391 Grogans Mill Rd,<br>Suite A-2<br>The Woodlands TX 77380<br>(281) 367-0065 | 2                             |                               |
| Spill ID:                                |  | 3                             |                               |
| Site Name/State: Metro Container Corp/PA |  | 4                             |                               |
| Project Leader: [Redacted]               |  |                               |                               |
| Action: Expanded Site Investigation/RI   |  |                               |                               |
| Sampling Co: Tetra Tech                  |  |                               |                               |

| ORGANIC<br>SAMPLE No. | MATRD/<br>SAMPLER            | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles   | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | INORGANIC<br>SAMPLE No. | QC<br>Type |
|-----------------------|------------------------------|---------------|-------------------------|------------------------------------|---------------------|-----------------------------|-------|-------------------------|------------|
| C45B2                 | Soil (>12")/<br>[Redacted]   | M/G           | CLP SV/PCB (14)         | 479 (Ice Only) (1)                 | MC-SB-04            | S: 6/8/2010                 | 15:10 | MC45B2                  | -          |
| C45B3                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 481 (Ice Only) (1)                 | MC-SD-02            | S: 6/8/2010                 | 14:30 | MC45B3                  | -          |
| C45B4                 | Sediment/<br>[Redacted]      | M/G           | CLP SV/PCB (14)         | 483 (Ice Only) (1)                 | MC-SD-03            | S: 6/8/2010                 | 14:00 | MC45B4                  | -          |
| C45B5                 | Soil (0"-12")/<br>[Redacted] | M/G           | CLP SV/PCB (14)         | 485 (Ice Only), 486 (Ice Only) (2) | MC-SS-04            | S: 6/8/2010                 | 15:00 | MC45B5                  | -          |

|  |  |   |                               |
|--|--|---|-------------------------------|
| Shipment for Case Complete: [Redacted]             | Sample(s) to be used for laboratory QC: C45B5    | Additional Sampler Signature(s): [Redacted] | Chain of Custody Seal Number: |
| Analysis Key:                                      | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G     | Shipment Iced? _____          |
| CLP SV/PCB = CLP Semivolatiles and Aroclors - soil |  |   |                               |

TR Number: 3-242195023-060810-0005

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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F2V5.1.047 Page 1 of 1

AR103550



**USEPA Contract Laboratory Program**  
**Organic Traffic Report & Chain of Custody Record**

|                 |              |          |
|-----------------|--------------|----------|
| <b>Case No:</b> | <b>40185</b> | <b>R</b> |
| <b>DAS No:</b>  |              |          |

|   |   |                                      |                                      |
|---|---|--------------------------------------|--------------------------------------|
| <b>Region:</b> 3                                | <b>Date Shipped:</b> 6/10/2010  | <b>Chain of Custody Record</b>       | <b>Sampler Signature:</b> [Redacted] |
| <b>Project Code:</b>                            | <b>Carrier Name:</b> FedEx  | <b>Relinquished By</b> (Date / Time) | <b>Received By</b> (Date / Time)     |
| <b>Account Code:</b>                            | <b>Airbill:</b> 8731 0479 8107  | 1 [Redacted]                         |                                      |
| <b>CERCLIS ID:</b> PAD044545895                 | <b>Shipped to:</b> KAP Technologies Inc<br>9391 Grogans Mill Rd,<br>Suite A-2<br>The Woodlands TX 77380<br>(281) 367-0065 | 2 [Redacted]                         |                                      |
| <b>Spill ID:</b>                                |   | 3 [Redacted]                         |                                      |
| <b>Site Name/State:</b> Metro Container Corp/PA |   | 4 [Redacted]                         |                                      |
| <b>Project Leader:</b> [Redacted]               |   |                                      |                                      |
| <b>Action:</b> Expanded Site Investigation/RI   |   |                                      |                                      |
| <b>Sampling Co:</b> Tetra Tech                  |   |                                      |                                      |

| ORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER      | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | INORGANIC<br>SAMPLE No. | QC<br>Type |
|-----------------------|-------------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|-------|-------------------------|------------|
| C45C5                 | Sediment/<br>[Redacted] | M/G           | CLP SV/PCB (14)         | 534 (Ice Only) (1)               | MC-SD-01            | S: 6/10/2010                | 16:00 | MC45C5                  | -          |

|  |   |  |                                      |
|--|---|--|--------------------------------------|
| <b>Shipment for Case Complete?</b> Y                                       | <b>Sample(s) to be used for laboratory QC:</b>          | <b>Additional Sampler Signature(s):</b>        | <b>Chain of Custody Seal Number:</b> |
| <b>Analysis Key:</b><br>CLP SV/PCB = CLP Semivolatiles and Aroclors - soil | <b>Concentration:</b> L = Low, M = Low/Medium, H = High | <b>Type/Designate:</b> Composite = C, Grab = G | <b>Shipment Iced?</b> _____          |

**TR Number: 3-242195023-061010-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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F2V5.1.047 Page 1 of 1

AR103551

# U.S EPA Region III Analytical Request Form

STS 5-21-10

40185

| OASQA USE ONLY |        |                |         |
|----------------|--------|----------------|---------|
| Control#       | CT4996 | RAS#           |         |
| DAS#           |        | NSF#           |         |
| PES#           |        | Analytical TAT | 14 days |

|  |                                     |   |                                       |
|--|-------------------------------------|---|---------------------------------------|
| Date: 5/17/2010  |                                     | Site Activity: Expanded Site Inspection   |                                       |
| Site Name: Metro Container Corp.   |                                     | Street Address: 2nd And Price Streets   |                                       |
| City: Trainer  | State: PA                           | Latitude: 39.82642  | Longitude: 75.39903                   |
| Program: Superfund   | Acct. #: 2010 T03N302DD2C032H QB 00 | CERCLIS #: PAD044545895   |                                       |
| Site ID:   | Spill ID: 032H                      | Operable Unit:  |                                       |
| Site Specific QA Plan Submitted: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes   |                                     | Title: START3 QAPP  | Date Approved: November 2006          |
| EPA Project Leader: Charlene Creamer   | Phone#: 215-814-2145                | Cell Phone #:   | E-mail: creamer.charlene@epa.gov      |
| Request Preparer: [REDACTED]   | Phone#: [REDACTED]                  | Cell Phone #: [REDACTED]  | E-mail: [REDACTED]                    |
| Request Preparer: [REDACTED]   | Phone#: [REDACTED]                  | Cell Phone #: [REDACTED]  | E-mail: [REDACTED]                    |
| Contractor: Tetra Tech EM Inc  |                                     | EPA CO/PO: [REDACTED]   |                                       |
| #Samples 37  | Matrix: Soil                        | Parameter: SVOC, PCB  | Method: CLP SOW SOM01.2 32430,31      |
| #Samples 37  | Matrix: Soil                        | Parameter: TAL Metals + Hg  | Method: CLP SOW ILM05.4 ICP-AES 32432 |
| #Samples 2   | Matrix: Blank                       | Parameter: SVOC, PCB  | Method: CLP SOW SOM01.2               |
| #Samples 2   | Matrix: Blank                       | Parameter: TAL Metals + Hg  | Method: CLP SOW ILM05.4 ICP-AES       |
| Ship Date From: 6/7/2010   |                                     | Ship Date To: 6/10/2010   | Org. Validation Level M3              |
| Unvalidated Data Requested: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes  |                                     | If Yes, TAT Needed: <input checked="" type="checkbox"/> 14days <input type="checkbox"/> 7days <input type="checkbox"/> 72hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 24hrs <input type="checkbox"/> Other (Specify) by CSAT |                                       |
| Validated Data Package Due: <input type="checkbox"/> 42 days <input checked="" type="checkbox"/> 30 days <input type="checkbox"/> 21days <input type="checkbox"/> 14 days <input type="checkbox"/> Other (Specify) |                                     | 14/16   |                                       |
| Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format)  |                                     |   |                                       |
| Special Instructions: Required detection limits attached.  |                                     |   |                                       |

## **Appendix D**

### **Laboratory Case Narrative**



|                              |                       |                      |
|------------------------------|-----------------------|----------------------|
| <b>Contract No. EPW05032</b> | <b>Case No. 40185</b> | <b>SDG No. C4598</b> |
|------------------------------|-----------------------|----------------------|

**SDG NARRATIVE**

**SAMPLE RECEIPT:**

**On 06/09/10 @ 10:00 A.M.** - Received one cooler via FedEx with shipment number 873104798162. The cooler temperature was 2.6<sup>0</sup>C.

**On 06/10/10 @ 08:55 A.M.** - Received one cooler via FedEx with shipment number 873104798129. The cooler temperature was 5.3<sup>0</sup>C.

The package contained the following samples for SVOA and AROCLORS analyses.  
The custody seals were intact.

| <b>EPA SAMPLE ID</b> | <b>pH</b> | <b>EPA SAMPLE ID</b> | <b>pH</b> |
|----------------------|-----------|----------------------|-----------|
| C4598                | NA        | C45A8MS              | NA        |
| C4598DL              | NA        | C45A8MSD             | NA        |
| C4598RE              | NA        | C45A9                | NA        |
| C4599                | NA        | C45A9RE              | NA        |
| C45A0                | NA        | C45B0                | NA        |
| C45A0RE              | NA        | C45B0DL              | NA        |
| C45A1                | NA        | C45B0RE              | NA        |
| C45A2                | NA        | C45B1                | NA        |
| C45A2RE              | NA        | C45B1DL              | NA        |
| C45A3                | NA        | C45B1RE              | NA        |
| C45A3RE              | NA        | C45B2                | NA        |
| C45A4                | NA        | C45B3                | NA        |
| C45A5                | NA        | C45B4                | NA        |
| C45A6                | NA        | C45B4RE              | NA        |
| C45A6RE              | NA        | C45B6                | NA        |
| C45A7                | NA        | C45B7                | NA        |
| C45A7RE              | NA        | C45B8                | NA        |
| C45A8                | NA        |                      |           |

No problems were encountered during sample receipt and login.

Contract No. EPW05032

Case No. 40185

SDG No. C4598

### SDG NARRATIVE

#### **SEMIVOLATILES SOIL:**

The soil samples were extracted on 06/19/10 using the sonication method as per statement of work SOM 1.2. The samples were cleaned by GPC. No problems were encountered during the extraction.

The samples were analyzed on instruments C-5973 GC/MS and F-5973 GC/MS using a 30 meters long RTX-5MS column having a 0.25mm ID and 0.25µm film thickness.

The sample C4598DL had target compound concentrations above the calibration range and was analyzed using a dilution in order to bring the concentrations within the calibration range. Both the analyses were reported and are billable.

The soil samples C4598, C45A0, C45A2, C45A3, C45A6, C45A7, C45A9, C45B0, C45B1, and C45B4 had failed in the internal standard and were reanalyzed. Upon reanalysis again failed due to sample matrix. Both the analyses were reported and are billable.

No other problems were encountered during the sample analyses.

#### **The formula used to calculate the Sample concentration:**

#### **SOIL SAMPLES:**

$$\text{Concentration of Soil, Sediment sample } \mu\text{g/kg} = \frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(RRF)(V_i)(W_s)(D)}$$

Where,

A<sub>x</sub> = Area of characteristic ion to be measured

I<sub>s</sub> = Amount of internal standard injected in ng

A<sub>is</sub> = Area of characteristic ion in internal standard

V<sub>t</sub> = Volume of concentrated extract in µL.

V<sub>i</sub> = Volume of extract injected.

GPC = GPC cleaning Factor.

100 - % moisture

$$D = \frac{100}{\text{100 - \% moisture}}$$

W<sub>s</sub> = Weight of sample extract.

RRF = Mean relative Response Factor determined from the initial calibration standard.

DF = Dilution Factor.

#### **Manual Integrations:**

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

SSTD080IK – Caprolactam

|                       |                |               |
|-----------------------|----------------|---------------|
| Contract No. EPW05032 | Case No. 40185 | SDG No. C4598 |
|-----------------------|----------------|---------------|

**SDG NARRATIVE**

SSTD080IK – Pentachlorophenol  
SSTD080IK – Fluoranthene  
SSTD080IK – Benzo(b)fluoranthene  
SSTD080IK – Benzo(k)fluoranthene  
SSTD040IK – Caprolactam  
SSTD040IK – Fluoranthene  
SSTD040IK – Benzo(b)fluoranthene  
SSTD010IK – Caprolactam  
SSTD010IK – Pentachlorophenol  
SSTD010IK – Fluoranthene  
SSTD010IK – Benzo(b)fluoranthene  
SSTD020IK – Fluoranthene  
SSTD020IK – Benzo(b)fluoranthene  
SSTD005IK – Fluoranthene  
SSTD005IK – Benzo(b)fluoranthene  
SSTD005IK – Indeno(1,2,3-cd)pyrene  
SSTD04079 – Caprolactam  
SSTD04079 – Dibenzo(a,h)anthracene  
SSTD02079 – Perylene-d12  
SSTD02079 – Dibenzo(a,h)anthracene  
SSTD01079 – Caprolactam  
SSTD08079 – Indeno(1,2,3-cd)pyrene  
SSTD00579 – Dibenzo(a,h)anthracene  
SSTD00579 – Benzo(g,h,i)perylene  
SSTD020IM – Fluoranthene  
SSTD02084 – Benzo(b)fluoranthene

**AROCLORS SOIL:**

The soil samples were extracted on 06/15/10 using the sonication method as per statement of work SOM1.2. No problems were encountered during extraction.

The samples were analyzed on P-6890 GC using two columns manufactured by Restek.

*RTX – CLP2: 30m\*0.53mmID\*0.41um film thickness. (Primary Column)*

*RTX – CLP: 30m\*0.53mmID\*0.50um film thickness. (Confirmation Column)*

*A 1uL injection was used.*

The samples C4598, C45B0 and C45B1 had target compound concentrations above the calibration range and were analyzed using a dilution in order to bring the concentrations within the calibration range. Both the analyses were reported and are billable.

No other problems were encountered during sample analysis.

|                       |                |               |
|-----------------------|----------------|---------------|
| Contract No. EPW05032 | Case No. 40185 | SDG No. C4598 |
|-----------------------|----------------|---------------|

SDG NARRATIVE

The formula used to calculate the Sample concentration:

SOIL SAMPLE:

$$\text{Concentration of Target compound in soil/sediment ug/kg} = \frac{(Ax)(Vt)(DF)}{(CF)(Vi)(Ws)(D)}$$

Ax = Response of the compound to be measured.

CF = Mean calibration factor from the initial calibration (area/ng)

Vt = 10,000 uL.

Vi = Volume of extract injected.

Ws = Weight of sample extracted.

$$D = \frac{100 - \% \text{moisture}}{100}$$

DF = Dilution Factor.

Manual Integrations:

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

AR16603G1 – AR1016-1

*I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:*



Signature/Title

6/28/10

Date of Signature

|                       |                |               |
|-----------------------|----------------|---------------|
| Contract No. EPW05032 | Case No. 40185 | SDG No. C45B5 |
|-----------------------|----------------|---------------|

**SDG NARRATIVE**

**SAMPLE RECEIPT:**

**On 06/10/10 @ 08:55 A.M.** - Received one cooler via FedEx with shipment number 873104798129. The cooler temperature was 5.3°C.

**On 06/11/10 @ 09:23 A.M.** - Received one cooler via FedEx with shipment number 873104798107. The cooler temperature was 2.6°C.

The package contained the following samples for SVOA and AROCLORS analyses.  
The custody seals were intact.

| EPA SAMPLE ID | pH | EPA SAMPLE ID | pH |
|---------------|----|---------------|----|
| C45B5         | NA | C45C5         | NA |
| C45B9         | NA | C45C5MS       | NA |
| C45C3         | NA | C45C5MSD      | NA |
| C45C4         | NA |               |    |

No problems were encountered during sample receipt and login.

**SEMIVOLATILES WATER:**

The water samples were extracted on 06/14/10 and using continuous Liquid/Liquid Extraction as per statement of work SOM 1.2. No problems were encountered during extraction and analysis.

The samples were analyzed on instrument F-5973 GC/MS using a 30 meters long RTX-5MS column having a 0.25mm ID and 0.25µm film thickness.

No problems were encountered during the sample analyses.

**The formula used to calculate the Sample concentration:**

**WATER SAMPLES:**

$$\text{Concentration ug/L} = \frac{(A_x)(I_s)(V_t)(DF)}{(A_{is})(RRF)(V_o)(V_i)}$$

Where,

A<sub>x</sub> = Area of the characteristic ion for the compound to be measured.

A<sub>is</sub> = Area of the characteristic ion for the internal standard.

I<sub>s</sub> = Amount of internal standard injected in ng

V<sub>o</sub> = Volume of water extracted in mL.

V<sub>i</sub> = Volume of extract injected in µL.



|                       |                |               |
|-----------------------|----------------|---------------|
| Contract No. EPW05032 | Case No. 40185 | SDG No. C45B5 |
|-----------------------|----------------|---------------|

**SDG NARRATIVE**

RRF = Mean Relative Response Factor determined from the initial calibration Standard.  
DF = Dilution Factor.

**SEMIVOLATILES SOIL:**

The soil samples were extracted on 06/20/10 using the sonication method as per statement of work SOM 1.2. The samples were cleaned by GPC. No problems were encountered during the extraction.

The samples were analyzed on instruments F-5973 GC/MS using a 30 meters long RTX-5MS column having a 0.25mm ID and 0.25µm film thickness.

No other problems were encountered during the sample analyses.

**The formula used to calculate the Sample concentration:**

**SOIL SAMPLES:**

$$\text{Concentration of Soil, Sediment sample } \mu\text{g/kg} = \frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_i)(RRF)(V_i)(W_s)(D)}$$

Where,

A<sub>x</sub> = Area of characteristic ion to be measured

I<sub>s</sub> = Amount of internal standard injected in ng

A<sub>i</sub> = Area of characteristic ion in internal standard

V<sub>t</sub> = Volume of concentrated extract in µL.

V<sub>i</sub> = Volume of extract injected.

GPC = GPC cleaning Factor.

100 - % moisture

$$D = \frac{\quad}{100}$$

W<sub>s</sub> = Weight of sample extract.

RRF = Mean relative Response Factor determined from the initial calibration standard.

DF = Dilution Factor.

**AROCLORS WATER:**

The water sample was extracted using separatory funnel extraction method on 06/15/2010 as per statement of work SOM 1.2.

No problems were encountered during extraction.

All samples were analyzed on a P-6890 GC using two columns manufactured by Restek.



|                       |                |               |
|-----------------------|----------------|---------------|
| Contract No. EPW05032 | Case No. 40185 | SDG No. C45B5 |
|-----------------------|----------------|---------------|

### SDG NARRATIVE

RTX – CLP2: 30m\*0.53mmID\*0.41um film thickness. (Primary Column)  
RTX – CLP: 30m\*0.53mmID\*0.50um film thickness. (Confirmation Column)  
A 1uL injection was used.

**The formula used to calculate the Sample concentration:**

**WATER SAMPLES:**

$$\text{Concentration of the sample ug/L} = \frac{(Ax)(Vt)(DF)}{(CF)(Vo)(Vi)}$$

Where,

Ax = Response of the compound to be measured.  
CF = Mean calibration factor from the initial calibration (area/ng)  
Vt = Volume of the concentrated extract (uL)  
Vi = Volume of extract injected.  
Vo = Volume of water extracted

DF = Dilution Factor.

**AROCLORS SOIL:**

The soil samples were extracted on 06/15/10 using the sonication method as per statement of work SOM1.2. No problems were encountered during extraction.

The samples were analyzed on P-6890 GC using two columns manufactured by Restek.

RTX – CLP2: 30m\*0.53mmID\*0.41um film thickness. (Primary Column)  
RTX – CLP: 30m\*0.53mmID\*0.50um film thickness. (Confirmation Column)  
A 1uL injection was used.

No other problems were encountered during sample analysis.

**The formula used to calculate the Sample concentration:**

**SOIL SAMPLE:**

$$\text{Concentration of Target compound in soil/sediment ug/kg} = \frac{(Ax)(Vt)(DF)}{(CF)(Vi)(Ws)(D)}$$

Ax = Response of the compound to be measured.  
CF = Mean calibration factor from the initial calibration (area/ng)  
Vt = 10,000 uL.  
Vi = Volume of extract injected.  
Ws = Weight of sample extracted.

**KAP TECHNOLOGIES, INC.**  
**9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065**

|                              |                       |                      |
|------------------------------|-----------------------|----------------------|
| <b>Contract No. EPW05032</b> | <b>Case No. 40185</b> | <b>SDG No. C45B5</b> |
|------------------------------|-----------------------|----------------------|

**SDG NARRATIVE**

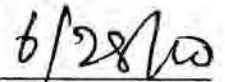
$$D = \frac{100 - \% \text{moisture}}{100}$$

DF = Dilution Factor.

*I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:*



Signature/Title



Date of Signature

## **Appendix E**

TIC Form Is

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C4598

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.01  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: C05873  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 6.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/24/2010  
GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 | 000613-12-7          | Anthracene, 2-methyl-         | 14.79 | 1100       | NJ |
| 02 | 000057-10-3          | n-Hexadecanoic acid           | 14.87 | 1100       | NJ |
| 03 |                      | Unknown-01                    | 14.91 | 1100       | J  |
| 04 |                      | Unknown-02                    | 15.06 | 990        | J  |
| 05 | 000084-65-1          | 9,10-Anthracenedione          | 15.17 | 1500       | NJ |
| 06 | 041464-42-0          | 1,1'-Biphenyl, 2,3',5,5'-tetr | 15.25 | 1000       | NJ |
| 07 | 000091-76-9          | 1,3,5-Triazine-2,4-diamine, 6 | 15.32 | 2000       | NJ |
| 08 | 003674-66-6          | Phenanthrene, 2,5-dimethyl-   | 15.41 | 1500       | NJ |
| 09 | 132545-36-9          | 1-Methyl-4-ethyl 2-phenylsucc | 15.44 | 1500       | NJ |
| 10 | 041464-51-1          | 1,1'-Biphenyl, 2,2',3',4,5-Pe | 15.51 | 2200       | NJ |
| 11 |                      |                               |       |            |    |
| 12 |                      |                               |       |            |    |
| 13 |                      |                               |       |            |    |
| 14 |                      |                               |       |            |    |
| 15 |                      |                               |       |            |    |
| 16 |                      |                               |       |            |    |
| 17 |                      |                               |       |            |    |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

AR103563

0035

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C4598DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.01DL  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36951  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 6.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2010  
GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 5.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME       | RT    | EST. CONC. | Q   |
|----|----------------------|---------------------|-------|------------|-----|
| 01 | 000059-31-4          | 2 (1H) -Quinolinone | 13.95 | 9300       | DNJ |
| 02 |                      | Unknown-01          | 14.52 | 3300       | DJ  |
| 03 |                      | Unknown-02          | 15.09 | 2600       | DJ  |
| 04 |                      | Unknown-03          | 15.47 | 2800       | DJ  |
| 05 |                      | Unknown-04          | 18.20 | 2900       | DJ  |
| 06 |                      | Unknown-05          | 18.28 | 2400       | DJ  |
| 07 |                      | Unknown-06          | 18.74 | 3100       | DJ  |
| 08 |                      | Unknown-07          | 19.36 | 2800       | DJ  |
| 09 |                      | Unknown-08          | 19.50 | 3200       | DJ  |
| 10 |                      |                     |       |            |     |
| 11 |                      |                     |       |            |     |
| 12 |                      |                     |       |            |     |
| 13 |                      |                     |       |            |     |
| 14 |                      |                     |       |            |     |
| 15 |                      |                     |       |            |     |
| 16 |                      |                     |       |            |     |
| 17 |                      |                     |       |            |     |
| 18 |                      |                     |       |            |     |
| 19 |                      |                     |       |            |     |
| 20 |                      |                     |       |            |     |
| 21 |                      |                     |       |            |     |
| 22 |                      |                     |       |            |     |
| 23 |                      |                     |       |            |     |
| 24 |                      |                     |       |            |     |
| 25 |                      |                     |       |            |     |
| 26 |                      |                     |       |            |     |
| 27 |                      |                     |       |            |     |
| 28 |                      |                     |       |            |     |
| 29 |                      |                     |       |            |     |
| 30 |                      |                     |       |            |     |
|    | E966796 <sup>2</sup> | Total Alkanes       | N/A   |            |     |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C4598RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.01RE  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36882  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 6.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 | 000613-12-7          | Anthracene, 2-methyl-         | 15.00 | 710        | NJ |
| 02 | 000779-02-2          | Anthracene, 9-methyl-         | 15.07 | 970        | NJ |
| 03 | 000203-64-5          | 4H-Cyclopenta[def]phenanthren | 15.13 | 990        | NJ |
| 04 | 041464-41-9          | 1,1'-Biphenyl, 2,2',5,6-Tetra | 15.17 | 730        | NJ |
| 05 | 035465-71-5          | 2-Phenylnaphthalene           | 15.33 | 980        | NJ |
| 06 | 000084-65-1          | 9,10-Anthracenedione          | 15.36 | 1700       | NJ |
| 07 | 000781-43-1          | 9,10-Dimethylantracene        | 15.49 | 1100       | NJ |
| 08 | 001576-67-6          | Phenanthrene, 3,6-dimethyl-   | 15.53 | 1500       | NJ |
| 09 | 003674-66-6          | Phenanthrene, 2,5-dimethyl-   | 15.62 | 1300       | NJ |
| 10 |                      | Unknown-01                    | 15.65 | 710        | J  |
| 11 | 005737-13-3          | Cyclopenta(def)phenanthrenone | 15.70 | 690        | NJ |
| 12 |                      | Unknown-02                    | 17.52 | 750        | J  |
| 13 | 000604-53-5          | 1,1'-Binaphthalene            | 18.33 | 1300       | NJ |
| 14 |                      | Unknown-03                    | 18.49 | 860        | J  |
| 15 | 000205-82-3          | Benzo[j]fluoranthene          | 18.70 | 1300       | NJ |
| 16 |                      | Unknown-04                    | 19.41 | 970        | J  |
| 17 |                      | Unknown-05                    | 19.58 | 1200       | J  |
| 18 |                      | Unknown-06                    | 20.37 | 920        | J  |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C4599

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.02  
Sample wt/vol: 30.00 (g/mL) G Lab File ID: F36883  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 6.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 | 000779-02-2          | Anthracene, 9-methyl-         | 15.01 | 880        | NJ |
| 02 | 000057-10-3          | n-Hexadecanoic acid           | 15.07 | 770        | NJ |
| 03 |                      | Unknown-01                    | 15.14 | 690        | J  |
| 04 |                      | Unknown-02                    | 15.33 | 830        | J  |
| 05 | 000084-65-1          | 9,10-Anthracenedione          | 15.37 | 960        | NJ |
| 06 | 002789-88-0          | di-p-Tolylacetylene           | 15.50 | 700        | NJ |
| 07 |                      | Unknown-03                    | 15.53 | 750        | J  |
| 08 | 000781-43-1          | 9,10-Dimethylanthracene       | 15.62 | 1100       | NJ |
| 09 |                      | Unknown-04                    | 17.52 | 1000       | J  |
| 10 | 002498-77-3          | Benz[a]anthracene, 1-methyl-  | 17.69 | 1300       | NJ |
| 11 | 181425-91-2          | Benzene-1,3-dicarboxylic acid | 17.91 | 900        | NJ |
| 12 |                      | Unknown-05                    | 18.19 | 710        | J  |
| 13 | 027458-90-8          | Disulfide, di-tert-dodecyl    | 18.50 | 690        | NJ |
| 14 |                      | Unknown-06                    | 18.69 | 690        | J  |
| 15 |                      | Unknown-07                    | 18.77 | 870        | J  |
| 16 |                      | Unknown-08                    | 19.29 | 800        | J  |
| 17 |                      | Unknown-09                    | 20.37 | 830        | J  |
| 18 |                      | Unknown-10                    | 20.62 | 690        | J  |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   | 1300       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A0

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.03

Sample wt/vol: 29.90 (g/mL) G

Lab File ID: C05875

Level: (LOW/MED) LOW

Extraction: (Type) SONG

% Moisture: 19 Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/24/2010

GPC Cleanup: (Y/N) Y pH: 7.0

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER             | COMPOUND NAME                          | RT    | EST. CONC. | Q  |
|----|------------------------|--|-------|------------|----|
| 01 |                        | Unknown-01                             | 6.39  | 3900       | J  |
| 02 |                        | Unknown-02                             | 6.71  | 3000       | J  |
| 03 |                        | Unknown-03                             | 9.34  | 3500       | J  |
| 04 | 330207-53-9            | E-14-Hexadecenal                       | 14.79 | 4100       | NJ |
| 05 |                        | Unknown-04                             | 14.87 | 2500       | J  |
| 06 |                        | Unknown-05                             | 15.12 | 12000      | J  |
| 07 |                        | Unknown-06                             | 15.52 | 8800       | J  |
| 08 |                        | Unknown-07                             | 15.76 | 4400       | J  |
| 09 | <del>066563-30-2</del> | <del>Bacchotricuneatin c</del> Unknown | 15.97 | 4400       | NJ |
| 10 |                        | Unknown-08                             | 16.07 | 3200       | J  |
| 11 |                        | Unknown-09                             | 16.19 | 3200       | J  |
| 12 | <del>066563-30-2</del> | <del>Bacchotricuneatin c</del> Unknown | 16.26 | 2700       | NJ |
| 13 |                        | Unknown-10                             | 16.56 | 4100       | J  |
| 14 |                        | Unknown-11                             | 16.69 | 3500       | J  |
| 15 |                        | Unknown-12                             | 17.77 | 4100       | J  |
| 16 |                        | Unknown-13                             | 17.98 | 2200       | J  |
| 17 |                        | Unknown-14                             | 18.03 | 4200       | J  |
| 18 |                        |  |       |            |    |
| 19 |                        |  |       |            |    |
| 20 |                        |  |       |            |    |
| 21 |                        |  |       |            |    |
| 22 |                        |  |       |            |    |
| 23 |                        |  |       |            |    |
| 24 |                        |  |       |            |    |
| 25 |                        |  |       |            |    |
| 26 |                        |  |       |            |    |
| 27 |                        |  |       |            |    |
| 28 |                        |  |       |            |    |
| 29 |                        |  |       |            |    |
| 30 |                        |  |       |            |    |
|    | E966796 <sup>2</sup>   | Total Alkanes                          | N/A   | 56000      | J  |

<sup>2</sup> EPA-designated Registry Number.

Su 07/01/2010

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A0RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.03RE  
Sample wt/vol: 29.90 (g/mL) G Lab File ID: F36884  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 19 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER             | COMPOUND NAME                                | RT    | EST. CONC. | Q  |
|----|------------------------|--|-------|------------|----|
| 01 |                        | Unknown-01                                   | 7.12  | 2400       | J  |
| 02 |                        | Unknown-02                                   | 7.40  | 1400       | J  |
| 03 | 001795-17-1            | Dodecylcyclohexane                           | 14.68 | 1400       | NJ |
| 04 | <del>002136-72-3</del> | Ethanol, 2-(octadecyloxy) <del>Unknown</del> | 14.85 | 1800       | NJ |
| 05 |                        | Unknown-03                                   | 14.88 | 1400       | J  |
| 06 | <del>002136-72-3</del> | Ethanol, 2-(octadecyloxy) <del>Unknown</del> | 14.98 | 3000       | NJ |
| 07 |                        | Unknown-04                                   | 15.08 | 1900       | J  |
| 08 |                        | Unknown-05                                   | 15.13 | 2000       | J  |
| 09 |                        | Unknown-06                                   | 15.16 | 3700       | J  |
| 10 |                        | Unknown-07                                   | 15.27 | 2700       | J  |
| 11 |                        | Unknown-08                                   | 15.31 | 3400       | J  |
| 12 |                        | Unknown-09                                   | 15.34 | 2200       | J  |
| 13 |                        | Unknown-10                                   | 15.40 | 5800       | J  |
| 14 |                        | Unknown-11                                   | 15.44 | 2000       | J  |
| 15 |                        | Unknown-12                                   | 15.47 | 2000       | J  |
| 16 |                        | Unknown-13                                   | 15.49 | 2500       | J  |
| 17 | 001795-18-2            | Cyclohexane, tetradecyl-                     | 15.59 | 4300       | NJ |
| 18 | 066563-30-2            | Bacchotricuneatin c                          | 15.63 | 3800       | NJ |
| 19 |                        | Unknown-14                                   | 15.67 | 3100       | J  |
| 20 |                        | Unknown-15                                   | 15.69 | 2400       | J  |
| 21 |                        | Unknown-16                                   | 15.71 | 3000       | J  |
| 22 |                        |  |       |            |    |
| 23 |                        |  |       |            |    |
| 24 |                        |  |       |            |    |
| 25 |                        |  |       |            |    |
| 26 |                        |  |       |            |    |
| 27 |                        |  |       |            |    |
| 28 |                        |  |       |            |    |
| 29 |                        |  |       |            |    |
| 30 |                        |  |       |            |    |
|    | E966796 <sup>2</sup>   | Total Alkanes                                | N/A   | 22000      | J  |

<sup>2</sup> EPA-designated Registry Number.

*See analysis*

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A1

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.04

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: F36885

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 33 Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 6.6

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 |                      | Unknown-01                    | 14.95 | 1400       | J  |
| 02 | 107426-38-0          | Naphtho[2,3-b]norbornadiene   | 15.08 | 1200       | NJ |
| 03 |                      | Unknown-02                    | 15.14 | 1800       | J  |
| 04 |                      | Unknown-03                    | 15.44 | 1500       | J  |
| 05 |                      | Unknown-04                    | 15.53 | 2300       | J  |
| 06 |                      | Unknown-05                    | 15.57 | 1200       | J  |
| 07 | 073002-85-4          | Decane, 5,6-bis(2,2-dimethylp | 15.70 | 1700       | NJ |
| 08 |                      | Unknown-06                    | 15.83 | 1500       | J  |
| 09 |                      |                               |       |            |    |
| 10 |                      |                               |       |            |    |
| 11 |                      |                               |       |            |    |
| 12 |                      |                               |       |            |    |
| 13 |                      |                               |       |            |    |
| 14 |                      |                               |       |            |    |
| 15 |                      |                               |       |            |    |
| 16 |                      |                               |       |            |    |
| 17 |                      |                               |       |            |    |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   | 2500       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.05  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: C05877  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 21 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/24/2010  
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 |                      | Unknown-01                    | 14.49 | 1600       | J  |
| 02 |                      | Unknown-02                    | 14.71 | 1300       | J  |
| 03 |                      | Unknown-03                    | 14.78 | 2800       | J  |
| 04 |                      | Unknown-04                    | 14.85 | 1200       | J  |
| 05 | 000112-89-0          | Octadecane, 1-bromo-          | 14.99 | 2100       | NJ |
| 06 |                      | Unknown-05                    | 15.03 | 1200       | J  |
| 07 |                      | Unknown-06                    | 15.05 | 950        | J  |
| 08 |                      | Unknown-07                    | 15.10 | 3900       | J  |
| 09 |                      | Unknown-08                    | 16.04 | 910        | J  |
| 10 | 000629-93-6          | Octadecane, 1-iodo-           | 16.24 | 1100       | NJ |
| 11 |                      | Unknown-09                    | 16.60 | 890        | J  |
| 12 | 066563-30-2          | Bacchotricuneatin c           | 17.37 | 970        | NJ |
| 13 |                      | Unknown-10                    | 17.72 | 1300       | J  |
| 14 |                      | Unknown-11                    | 17.94 | 1300       | J  |
| 15 | 1000214-29-6         | 4-[Trichloromethyl]-2-[[4-nit | 18.15 | 1700       | NJ |
| 16 |                      |                               |       |            |    |
| 17 |                      |                               |       |            |    |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   | 18000      | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A2RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.05RE  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36886  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 21 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 |                      | Unknown-01                    | 15.01 | 1300       | J  |
| 02 |                      | Unknown-02                    | 15.26 | 1600       | J  |
| 03 |                      | Unknown-03                    | 15.30 | 1600       | J  |
| 04 |                      | Unknown-04                    | 15.34 | 1400       | J  |
| 05 |                      | Unknown-05                    | 15.37 | 1400       | J  |
| 06 |                      | Unknown-06                    | 15.40 | 1400       | J  |
| 07 |                      | Unknown-07                    | 15.58 | 2100       | J  |
| 08 |                      | Unknown-08                    | 15.61 | 2600       | J  |
| 09 |                      | Unknown-09                    | 15.65 | 1900       | J  |
| 10 |                      | Unknown-10                    | 15.70 | 3600       | J  |
| 11 |                      | Unknown-11                    | 16.71 | 1400       | J  |
| 12 |                      | Unknown-12                    | 16.85 | 1600       | J  |
| 13 |                      | Unknown-13                    | 17.10 | 1600       | J  |
| 14 | 006938-66-5          | 1-Bromodocosane               | 17.38 | 1500       | NJ |
| 15 |                      | Unknown-14                    | 17.48 | 1500       | J  |
| 16 |                      | Unknown-15                    | 17.70 | 1700       | J  |
| 17 |                      | Unknown-16                    | 17.85 | 1400       | J  |
| 18 | 025116-58-9          | 20.Xi.-Lanosta-7,9(11)-diene- | 17.94 | 1400       | NJ |
| 19 |                      | Unknown-17                    | 18.01 | 2000       | J  |
| 20 |                      | Unknown-18                    | 18.28 | 1500       | J  |
| 21 |                      | Unknown-19                    | 18.35 | 1500       | J  |
| 22 |                      | Unknown-20                    | 18.40 | 1500       | J  |
| 23 |                      | Unknown-21                    | 18.70 | 1500       | J  |
| 24 |                      | Unknown-22                    | 18.86 | 2000       | J  |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   | 18000      | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A3

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.06

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: C05878

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/24/2010

GPC Cleanup: (Y/N) Y pH: 6.6

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME               | RT    | EST. CONC. | Q  |
|----|----------------------|-----------------------------|-------|------------|----|
| 01 | 002531-84-2          | Phenanthrene, 2-methyl-     | 14.79 | 1600       | NJ |
| 02 |                      | Unknown-01                  | 15.10 | 1500       | J  |
| 03 |                      | Unknown-02                  | 15.16 | 1300       | J  |
| 04 |                      | Unknown-03                  | 15.20 | 1500       | J  |
| 05 | 003674-69-9          | Phenanthrene, 4,5-dimethyl- | 15.28 | 1400       | NJ |
| 06 | 003674-65-5          | Phenanthrene, 2,3-dimethyl- | 15.40 | 1200       | NJ |
| 07 |                      |                             |       |            |    |
| 08 |                      |                             |       |            |    |
| 09 |                      |                             |       |            |    |
| 10 |                      |                             |       |            |    |
| 11 |                      |                             |       |            |    |
| 12 |                      |                             |       |            |    |
| 13 |                      |                             |       |            |    |
| 14 |                      |                             |       |            |    |
| 15 |                      |                             |       |            |    |
| 16 |                      |                             |       |            |    |
| 17 |                      |                             |       |            |    |
| 18 |                      |                             |       |            |    |
| 19 |                      |                             |       |            |    |
| 20 |                      |                             |       |            |    |
| 21 |                      |                             |       |            |    |
| 22 |                      |                             |       |            |    |
| 23 |                      |                             |       |            |    |
| 24 |                      |                             |       |            |    |
| 25 |                      |                             |       |            |    |
| 26 |                      |                             |       |            |    |
| 27 |                      |                             |       |            |    |
| 28 |                      |                             |       |            |    |
| 29 |                      |                             |       |            |    |
| 30 |                      |                             |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes               | N/A   | 4500       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A3RE

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.06RE

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: F36887

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 6.6

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME       | RT    | EST. CONC. | Q  |
|----|----------------------|---------------------|-------|------------|----|
| 01 |                      | Unknown-01          | 14.72 | 1300       | J  |
| 02 |                      | Unknown-02          | 15.14 | 1700       | J  |
| 03 | 002789-88-0          | di-p-Tolylacetylene | 15.54 | 1700       | NJ |
| 04 |                      | Unknown-03          | 15.61 | 1400       | J  |
| 05 |                      |                     |       |            |    |
| 06 |                      |                     |       |            |    |
| 07 |                      |                     |       |            |    |
| 08 |                      |                     |       |            |    |
| 09 |                      |                     |       |            |    |
| 10 |                      |                     |       |            |    |
| 11 |                      |                     |       |            |    |
| 12 |                      |                     |       |            |    |
| 13 |                      |                     |       |            |    |
| 14 |                      |                     |       |            |    |
| 15 |                      |                     |       |            |    |
| 16 |                      |                     |       |            |    |
| 17 |                      |                     |       |            |    |
| 18 |                      |                     |       |            |    |
| 19 |                      |                     |       |            |    |
| 20 |                      |                     |       |            |    |
| 21 |                      |                     |       |            |    |
| 22 |                      |                     |       |            |    |
| 23 |                      |                     |       |            |    |
| 24 |                      |                     |       |            |    |
| 25 |                      |                     |       |            |    |
| 26 |                      |                     |       |            |    |
| 27 |                      |                     |       |            |    |
| 28 |                      |                     |       |            |    |
| 29 |                      |                     |       |            |    |
| 30 |                      |                     |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes       | N/A   | 1500       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.07  
Sample wt/vol: 30.00 (g/mL) G Lab File ID: F36888  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 44 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME               | RT    | EST. CONC. | Q  |
|----|----------------------|-----------------------------|-------|------------|----|
| 01 | 000613-12-7          | Anthracene, 2-methyl-       | 15.01 | 1600       | NJ |
| 02 |                      | Unknown-01                  | 15.08 | 1600       | J  |
| 03 |                      | Unknown-02                  | 15.14 | 3000       | J  |
| 04 |                      | Unknown-03                  | 15.37 | 1800       | J  |
| 05 |                      | Unknown-04                  | 15.50 | 1500       | J  |
| 06 |                      | Unknown-05                  | 15.52 | 1800       | J  |
| 07 | 001576-67-6          | Phenanthrene, 3,6-dimethyl- | 15.62 | 2000       | NJ |
| 08 | 000483-87-4          | Phenanthrene, 1,7-dimethyl- | 15.68 | 1600       | NJ |
| 09 |                      |                             |       |            |    |
| 10 |                      |                             |       |            |    |
| 11 |                      |                             |       |            |    |
| 12 |                      |                             |       |            |    |
| 13 |                      |                             |       |            |    |
| 14 |                      |                             |       |            |    |
| 15 |                      |                             |       |            |    |
| 16 |                      |                             |       |            |    |
| 17 |                      |                             |       |            |    |
| 18 |                      |                             |       |            |    |
| 19 |                      |                             |       |            |    |
| 20 |                      |                             |       |            |    |
| 21 |                      |                             |       |            |    |
| 22 |                      |                             |       |            |    |
| 23 |                      |                             |       |            |    |
| 24 |                      |                             |       |            |    |
| 25 |                      |                             |       |            |    |
| 26 |                      |                             |       |            |    |
| 27 |                      |                             |       |            |    |
| 28 |                      |                             |       |            |    |
| 29 |                      |                             |       |            |    |
| 30 |                      |                             |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes               | N/A   | 3200       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.08  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36889  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 35 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME         | RT    | EST. CONC. | Q  |
|----|----------------------|-----------------------|-------|------------|----|
| 01 |                      | Unknown-01            | 8.13  | 1000       | J  |
| 02 |                      | Unknown-02            | 10.12 | 790        | J  |
| 03 |                      | Unknown-03            | 15.77 | 670        | J  |
| 04 | 000112-84-5          | 13-Docosenamide, (Z)- | 18.10 | 670        | NJ |
| 05 |                      | Unknown-04            | 18.56 | 780        | J  |
| 06 |                      |                       |       |            |    |
| 07 |                      |                       |       |            |    |
| 08 |                      |                       |       |            |    |
| 09 |                      |                       |       |            |    |
| 10 |                      |                       |       |            |    |
| 11 |                      |                       |       |            |    |
| 12 |                      |                       |       |            |    |
| 13 |                      |                       |       |            |    |
| 14 |                      |                       |       |            |    |
| 15 |                      |                       |       |            |    |
| 16 |                      |                       |       |            |    |
| 17 |                      |                       |       |            |    |
| 18 |                      |                       |       |            |    |
| 19 |                      |                       |       |            |    |
| 20 |                      |                       |       |            |    |
| 21 |                      |                       |       |            |    |
| 22 |                      |                       |       |            |    |
| 23 |                      |                       |       |            |    |
| 24 |                      |                       |       |            |    |
| 25 |                      |                       |       |            |    |
| 26 |                      |                       |       |            |    |
| 27 |                      |                       |       |            |    |
| 28 |                      |                       |       |            |    |
| 29 |                      |                       |       |            |    |
| 30 |                      |                       |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes         | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.09  
Sample wt/vol: 30.30 (g/mL) G Lab File ID: C05881  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 39 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/24/2010  
GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME           | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------|-------|------------|----|
| 01 |                      | Unknown-01              | 8.28  | 1100       | J  |
| 02 |                      | Unknown-02              | 12.74 | 1000       | J  |
| 03 | 000832-64-4          | Phenanthrene, 4-methyl- | 14.78 | 920        | NJ |
| 04 |                      | Unknown-03              | 14.91 | 910        | J  |
| 05 | 000112-84-5          | 13-Docosenamide, (Z)-   | 17.86 | 970        | NJ |
| 06 |                      |                         |       |            |    |
| 07 |                      |                         |       |            |    |
| 08 |                      |                         |       |            |    |
| 09 |                      |                         |       |            |    |
| 10 |                      |                         |       |            |    |
| 11 |                      |                         |       |            |    |
| 12 |                      |                         |       |            |    |
| 13 |                      |                         |       |            |    |
| 14 |                      |                         |       |            |    |
| 15 |                      |                         |       |            |    |
| 16 |                      |                         |       |            |    |
| 17 |                      |                         |       |            |    |
| 18 |                      |                         |       |            |    |
| 19 |                      |                         |       |            |    |
| 20 |                      |                         |       |            |    |
| 21 |                      |                         |       |            |    |
| 22 |                      |                         |       |            |    |
| 23 |                      |                         |       |            |    |
| 24 |                      |                         |       |            |    |
| 25 |                      |                         |       |            |    |
| 26 |                      |                         |       |            |    |
| 27 |                      |                         |       |            |    |
| 28 |                      |                         |       |            |    |
| 29 |                      |                         |       |            |    |
| 30 |                      |                         |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes           | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A6RE

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.09RE

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: F36890

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 6.6

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME | RT    | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|---|
| 01 |                      | Unknown-01    | 8.12  | 1000       | J |
| 02 |                      | Unknown-02    | 15.14 | 1100       | J |
| 03 |                      | Unknown-03    | 15.43 | 1000       | J |
| 04 |                      | Unknown-04    | 15.53 | 940        | J |
| 05 |                      | Unknown-05    | 15.82 | 1200       | J |
| 06 |                      |               |       |            |   |
| 07 |                      |               |       |            |   |
| 08 |                      |               |       |            |   |
| 09 |                      |               |       |            |   |
| 10 |                      |               |       |            |   |
| 11 |                      |               |       |            |   |
| 12 |                      |               |       |            |   |
| 13 |                      |               |       |            |   |
| 14 |                      |               |       |            |   |
| 15 |                      |               |       |            |   |
| 16 |                      |               |       |            |   |
| 17 |                      |               |       |            |   |
| 18 |                      |               |       |            |   |
| 19 |                      |               |       |            |   |
| 20 |                      |               |       |            |   |
| 21 |                      |               |       |            |   |
| 22 |                      |               |       |            |   |
| 23 |                      |               |       |            |   |
| 24 |                      |               |       |            |   |
| 25 |                      |               |       |            |   |
| 26 |                      |               |       |            |   |
| 27 |                      |               |       |            |   |
| 28 |                      |               |       |            |   |
| 29 |                      |               |       |            |   |
| 30 |                      |               |       |            |   |
|    | E966796 <sup>2</sup> | Total Alkanes | N/A   |            |   |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.10  
Sample wt/vol: 29.90 (g/mL) G Lab File ID: C05882  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 43 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/24/2010  
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME               | RT    | EST. CONC. | Q  |
|----|----------------------|-----------------------------|-------|------------|----|
| 01 | 107426-38-0          | Naphtho[2,3-b]norbornadiene | 14.78 | 1100       | NJ |
| 02 |                      | Unknown-01                  | 14.91 | 1200       | J  |
| 03 |                      | Unknown-02                  | 15.01 | 1200       | J  |
| 04 |                      | Unknown-03                  | 15.20 | 1300       | J  |
| 05 |                      | Unknown-04                  | 15.29 | 1600       | J  |
| 06 |                      | Unknown-05                  | 17.63 | 1300       | J  |
| 07 | 000112-84-5          | 13-Docosenamide, (Z)-       | 17.86 | 1100       | NJ |
| 08 |                      |                             |       |            |    |
| 09 |                      |                             |       |            |    |
| 10 |                      |                             |       |            |    |
| 11 |                      |                             |       |            |    |
| 12 |                      |                             |       |            |    |
| 13 |                      |                             |       |            |    |
| 14 |                      |                             |       |            |    |
| 15 |                      |                             |       |            |    |
| 16 |                      |                             |       |            |    |
| 17 |                      |                             |       |            |    |
| 18 |                      |                             |       |            |    |
| 19 |                      |                             |       |            |    |
| 20 |                      |                             |       |            |    |
| 21 |                      |                             |       |            |    |
| 22 |                      |                             |       |            |    |
| 23 |                      |                             |       |            |    |
| 24 |                      |                             |       |            |    |
| 25 |                      |                             |       |            |    |
| 26 |                      |                             |       |            |    |
| 27 |                      |                             |       |            |    |
| 28 |                      |                             |       |            |    |
| 29 |                      |                             |       |            |    |
| 30 |                      |                             |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes               | N/A   | 1600       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A7RE

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.10RE

Sample wt/vol: 29.90 (g/mL) G

Lab File ID: F36891

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 43 Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 6.7

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME      | RT    | EST. CONC. | Q  |
|----|----------------------|--------------------|-------|------------|----|
| 01 |                      | Unknown-01         | 8.13  | 1200       | J  |
| 02 |                      | Unknown-02         | 14.72 | 1300       | J  |
| 03 | 000544-63-8          | Tetradecanoic acid | 15.08 | 1200       | NJ |
| 04 |                      | Unknown-03         | 15.53 | 1200       | J  |
| 05 |                      | Unknown-04         | 15.61 | 1200       | J  |
| 06 |                      |                    |       |            |    |
| 07 |                      |                    |       |            |    |
| 08 |                      |                    |       |            |    |
| 09 |                      |                    |       |            |    |
| 10 |                      |                    |       |            |    |
| 11 |                      |                    |       |            |    |
| 12 |                      |                    |       |            |    |
| 13 |                      |                    |       |            |    |
| 14 |                      |                    |       |            |    |
| 15 |                      |                    |       |            |    |
| 16 |                      |                    |       |            |    |
| 17 |                      |                    |       |            |    |
| 18 |                      |                    |       |            |    |
| 19 |                      |                    |       |            |    |
| 20 |                      |                    |       |            |    |
| 21 |                      |                    |       |            |    |
| 22 |                      |                    |       |            |    |
| 23 |                      |                    |       |            |    |
| 24 |                      |                    |       |            |    |
| 25 |                      |                    |       |            |    |
| 26 |                      |                    |       |            |    |
| 27 |                      |                    |       |            |    |
| 28 |                      |                    |       |            |    |
| 29 |                      |                    |       |            |    |
| 30 |                      |                    |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes      | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.11  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36892  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 51 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME | RT    | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|---|
| 01 |                      | Unknown-01    | 15.77 | 1300       | J |
| 02 |                      | Unknown-02    | 17.44 | 990        | J |
| 03 |                      | Unknown-03    | 18.10 | 1100       | J |
| 04 |                      |               |       |            |   |
| 05 |                      |               |       |            |   |
| 06 |                      |               |       |            |   |
| 07 |                      |               |       |            |   |
| 08 |                      |               |       |            |   |
| 09 |                      |               |       |            |   |
| 10 |                      |               |       |            |   |
| 11 |                      |               |       |            |   |
| 12 |                      |               |       |            |   |
| 13 |                      |               |       |            |   |
| 14 |                      |               |       |            |   |
| 15 |                      |               |       |            |   |
| 16 |                      |               |       |            |   |
| 17 |                      |               |       |            |   |
| 18 |                      |               |       |            |   |
| 19 |                      |               |       |            |   |
| 20 |                      |               |       |            |   |
| 21 |                      |               |       |            |   |
| 22 |                      |               |       |            |   |
| 23 |                      |               |       |            |   |
| 24 |                      |               |       |            |   |
| 25 |                      |               |       |            |   |
| 26 |                      |               |       |            |   |
| 27 |                      |               |       |            |   |
| 28 |                      |               |       |            |   |
| 29 |                      |               |       |            |   |
| 30 |                      |               |       |            |   |
|    | E966796 <sup>2</sup> | Total Alkanes | N/A   | 2000       | J |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45A9

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3169.12

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: F36893

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 3.0' Decanted: (Y/N) N

Date Received: 06/09/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 8.2

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 | 000832-71-3          | Phenanthrene, 3-methyl-       | 15.01 | 640        | NJ |
| 02 | 000057-10-3          | n-Hexadecanoic acid           | 15.08 | 1100       | NJ |
| 03 | 041464-42-0          | 1,1'-Biphenyl, 2,3',5,5'-tetr | 15.17 | 760        | NJ |
| 04 |                      | Unknown-01                    | 15.33 | 790        | J  |
| 05 | 070362-46-8          | 1,1'-Biphenyl, 2,2',3,5-Tetra | 15.36 | 750        | NJ |
| 06 | 001576-67-6          | Phenanthrene, 3,6-dimethyl-   | 15.49 | 1700       | NJ |
| 07 | 000091-76-9          | 1,3,5-Triazine-2,4-diamine, 6 | 15.53 | 1700       | NJ |
| 08 | 003674-69-9          | Phenanthrene, 4,5-dimethyl-   | 15.61 | 1100       | NJ |
| 09 |                      | Unknown-02                    | 15.82 | 840        | J  |
| 10 |                      | Unknown-03                    | 17.52 | 980        | J  |
| 11 |                      | Unknown-04                    | 17.69 | 660        | J  |
| 12 | 000111-02-4          | 2,6,10,14,18,22-Tetracosahexa | 18.26 | 730        | NJ |
| 13 |                      | Unknown-05                    | 18.32 | 880        | J  |
| 14 |                      | Unknown-06                    | 18.39 | 820        | J  |
| 15 |                      | Unknown-07                    | 19.39 | 700        | J  |
| 16 |                      | Unknown-08                    | 19.42 | 710        | J  |
| 17 |                      | Unknown-09                    | 19.73 | 850        | J  |
| 18 |                      | Unknown-10                    | 19.94 | 1100       | J  |
| 19 |                      | Unknown-11                    | 20.13 | 660        | J  |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45A9RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.12RE  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36910  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 3.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER                                | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|---|-------------------------------|-------|------------|----|
| 01 | 013798-23-7                               | Sulfur                        | 12.64 | 700        | NJ |
| 02 | 000057-10-3                               | n-Hexadecanoic acid           | 15.05 | 690        | NJ |
| 03 |   | Unknown-01                    | 15.11 | 740        | J  |
| 04 |   | Unknown-02                    | 15.31 | 750        | J  |
| 05 | 1000296-40-5                              | Benzamide, 4-chloro-N-[2-(4-c | 15.37 | 1000       | NJ |
| 06 | 052251-71-5                               | Anthracene, 2-ethyl-          | 15.47 | 1000       | NJ |
| 07 | <del>000483-87-4</del> <del>Unknown</del> | Phenanthrene, 1,7-dimethyl-   | 15.51 | 750        | NJ |
| 08 | <del>000483-87-4</del> <del>Unknown</del> | Phenanthrene, 1,7-dimethyl-   | 15.59 | 1100       | NJ |
| 09 |   | Unknown-03                    | 15.63 | 1000       | J  |
| 10 |   | Unknown-04                    | 17.83 | 650        | J  |
| 11 |   | Unknown-05                    | 18.08 | 630        | J  |
| 12 |   | Unknown-06                    | 18.22 | 1000       | J  |
| 13 |   | Unknown-07                    | 18.29 | 1000       | J  |
| 14 |   | Unknown-08                    | 18.36 | 700        | J  |
| 15 | 000050-32-8                               | Benzo[a]pyrene                | 18.66 | 720        | NJ |
| 16 |   | Unknown-09                    | 18.75 | 1100       | J  |
| 17 |   | Unknown-10                    | 19.36 | 740        | J  |
| 18 |   | Unknown-11                    | 19.69 | 910        | J  |
| 19 |   | Unknown-12                    | 19.95 | 980        | J  |
| 20 | 040897-27-6                               | Benzo[a]cyclopropa[cd]pentale | 20.28 | 1000       | NJ |
| 21 |   |                               |       |            |    |
| 22 |   |                               |       |            |    |
| 23 |   |                               |       |            |    |
| 24 |   |                               |       |            |    |
| 25 |   |                               |       |            |    |
| 26 |   |                               |       |            |    |
| 27 |   |                               |       |            |    |
| 28 |   |                               |       |            |    |
| 29 |   |                               |       |            |    |
| 30 |   |                               |       |            |    |
|    | E966796 <sup>2</sup>                      | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

See 07/01/10

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.13  
Sample wt/vol: 29.90 (g/mL) G Lab File ID: F36894  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 5.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME            | RT    | EST. CONC. | Q  |
|----|----------------------|--------------------------|-------|------------|----|
| 01 |                      | Unknown-01               | 14.91 | 590        | J  |
| 02 | 000613-12-7          | Anthracene, 2-methyl-    | 15.01 | 770        | NJ |
| 03 |                      | Unknown-02               | 15.08 | 730        | J  |
| 04 |                      | Unknown-03               | 15.14 | 1100       | J  |
| 05 |                      | Unknown-04               | 15.21 | 780        | J  |
| 06 | 000612-94-2          | Naphthalene, 2-phenyl-   | 15.33 | 1300       | NJ |
| 07 | 000084-65-1          | 9,10-Anthracenedione     | 15.37 | 1000       | NJ |
| 08 |                      | Unknown-05               | 15.44 | 710        | J  |
| 09 |                      | Unknown-06               | 15.49 | 640        | J  |
| 10 |                      | Unknown-07               | 15.53 | 740        | J  |
| 11 |                      | Unknown-08               | 15.56 | 570        | J  |
| 12 | 000781-43-1          | 9,10-Dimethylanthracene  | 15.62 | 1100       | NJ |
| 13 |                      | Unknown-09               | 15.65 | 1000       | J  |
| 14 |                      | Unknown-10               | 15.82 | 520        | J  |
| 15 | 003351-28-8          | Chrysene, 1-methyl-      | 17.69 | 500        | NJ |
| 16 |                      | Unknown-11               | 18.12 | 590        | J  |
| 17 | 000205-99-2          | Benz[e]acephenanthrylene | 18.70 | 480        | NJ |
| 18 |                      | Unknown-12               | 19.40 | 530        | J  |
| 19 |                      | Unknown-13               | 19.77 | 530        | J  |
| 20 |                      |                          |       |            |    |
| 21 |                      |                          |       |            |    |
| 22 |                      |                          |       |            |    |
| 23 |                      |                          |       |            |    |
| 24 |                      |                          |       |            |    |
| 25 |                      |                          |       |            |    |
| 26 |                      |                          |       |            |    |
| 27 |                      |                          |       |            |    |
| 28 |                      |                          |       |            |    |
| 29 |                      |                          |       |            |    |
| 30 |                      |                          |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes            | N/A   | 490        | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B0RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.13RE  
Sample wt/vol: 29.90 (g/mL) G Lab File ID: F36911  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 5.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 |                      | Unknown-01                    | 8.10  | 570        | J  |
| 02 | 000057-10-3          | n-Hexadecanoic acid           | 15.05 | 500        | NJ |
| 03 |                      | Unknown-02                    | 15.12 | 580        | J  |
| 04 | 000084-65-1          | 9,10-Anthracenedione          | 15.34 | 500        | NJ |
| 05 |                      | Unknown-03                    | 15.43 | 540        | J  |
| 06 |                      | Unknown-04                    | 15.63 | 640        | J  |
| 07 |                      | Unknown-05                    | 15.69 | 470        | J  |
| 08 |                      | Unknown-06                    | 15.81 | 730        | J  |
| 09 | 000243-17-4          | 11H-Benzo[b]fluorene          | 16.33 | 480        | NJ |
| 10 |                      | Unknown-07                    | 17.50 | 680        | J  |
| 11 | 000630-02-4          | Octacosane                    | 17.65 | 590        | NJ |
| 12 |                      | Unknown-08                    | 17.83 | 820        | J  |
| 13 |                      | Unknown-09                    | 18.07 | 620        | J  |
| 14 | 005353-25-3          | Ethanol, 2-(9-octadecenyloxy) | 18.23 | 770        | NJ |
| 15 | 000638-66-4          | Octadecanal                   | 19.24 | 600        | NJ |
| 16 | 000630-04-6          | Hentriacontane                | 19.53 | 570        | NJ |
| 17 | 007390-81-0          | Oxirane, hexadecyl-           | 20.65 | 570        | NJ |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   | 2000       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.14  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36895  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 4.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME           | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------|-------|------------|----|
| 01 |                      | Unknown-01              | 5.48  | 560        | J  |
| 02 |                      | Unknown-02              | 8.14  | 630        | J  |
| 03 |                      | Unknown-03              | 15.14 | 680        | J  |
| 04 |                      | Unknown-04              | 15.37 | 1300       | J  |
| 05 |                      | Unknown-05              | 15.54 | 1500       | J  |
| 06 | 000781-43-1          | 9,10-Dimethylanthracene | 15.62 | 630        | NJ |
| 07 |                      | Unknown-06              | 15.67 | 650        | J  |
| 08 |                      | Unknown-07              | 17.69 | 580        | J  |
| 09 |                      | Unknown-08              | 19.40 | 570        | J  |
| 10 |                      | Unknown-09              | 19.74 | 860        | J  |
| 11 |                      |                         |       |            |    |
| 12 |                      |                         |       |            |    |
| 13 |                      |                         |       |            |    |
| 14 |                      |                         |       |            |    |
| 15 |                      |                         |       |            |    |
| 16 |                      |                         |       |            |    |
| 17 |                      |                         |       |            |    |
| 18 |                      |                         |       |            |    |
| 19 |                      |                         |       |            |    |
| 20 |                      |                         |       |            |    |
| 21 |                      |                         |       |            |    |
| 22 |                      |                         |       |            |    |
| 23 |                      |                         |       |            |    |
| 24 |                      |                         |       |            |    |
| 25 |                      |                         |       |            |    |
| 26 |                      |                         |       |            |    |
| 27 |                      |                         |       |            |    |
| 28 |                      |                         |       |            |    |
| 29 |                      |                         |       |            |    |
| 30 |                      |                         |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes           | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B1RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3169.14RE  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36912  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 4.0 Decanted: (Y/N) N Date Received: 06/09/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 | 000119-36-8          | Methyl Salicylate             | 8.70  | 1400       | NJ |
| 02 |                      | Unknown-01                    | 11.45 | 500        | J  |
| 03 |                      | Unknown-02                    | 14.70 | 500        | J  |
| 04 | 005129-60-2          | Pentadecanoic acid, 14-methyl | 14.89 | 550        | NJ |
| 05 | 000057-10-3          | n-Hexadecanoic acid           | 15.06 | 1900       | NJ |
| 06 | 000082-38-2          | 1-(Methylamino)anthraquinone  | 17.02 | 780        | NJ |
| 07 |                      | Unknown-03                    | 17.42 | 420        | J  |
| 08 |                      | Unknown-04                    | 17.65 | 410        | J  |
| 09 |                      | Unknown-05                    | 17.74 | 490        | J  |
| 10 | 000112-84-5          | 13-Docosenamide, (Z)-         | 18.07 | 500        | NJ |
| 11 |                      |                               |       |            |    |
| 12 |                      |                               |       |            |    |
| 13 |                      |                               |       |            |    |
| 14 |                      |                               |       |            |    |
| 15 |                      |                               |       |            |    |
| 16 |                      |                               |       |            |    |
| 17 |                      |                               |       |            |    |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45B2

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3178.01

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: F36906

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N

Date Received: 06/10/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 6.8

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME          | RT    | EST. CONC. | Q  |
|----|----------------------|------------------------|-------|------------|----|
| 01 |                      | Unknown-01             | 18.69 | 840        | J  |
| 02 | 007390-81-0          | Oxirane, hexadecyl-    | 19.23 | 760        | NJ |
| 03 | 055320-06-4          | Heneicosane, 11-decyl- | 19.51 | 1200       | NJ |
| 04 |                      | Unknown-02             | 19.72 | 790        | J  |
| 05 |                      | Unknown-03             | 21.32 | 690        | J  |
| 06 |                      |                        |       |            |    |
| 07 |                      |                        |       |            |    |
| 08 |                      |                        |       |            |    |
| 09 |                      |                        |       |            |    |
| 10 |                      |                        |       |            |    |
| 11 |                      |                        |       |            |    |
| 12 |                      |                        |       |            |    |
| 13 |                      |                        |       |            |    |
| 14 |                      |                        |       |            |    |
| 15 |                      |                        |       |            |    |
| 16 |                      |                        |       |            |    |
| 17 |                      |                        |       |            |    |
| 18 |                      |                        |       |            |    |
| 19 |                      |                        |       |            |    |
| 20 |                      |                        |       |            |    |
| 21 |                      |                        |       |            |    |
| 22 |                      |                        |       |            |    |
| 23 |                      |                        |       |            |    |
| 24 |                      |                        |       |            |    |
| 25 |                      |                        |       |            |    |
| 26 |                      |                        |       |            |    |
| 27 |                      |                        |       |            |    |
| 28 |                      |                        |       |            |    |
| 29 |                      |                        |       |            |    |
| 30 |                      |                        |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes          | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45B3

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3178.02

Sample wt/vol: 29.90 (g/mL) G

Lab File ID: F36908

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N

Date Received: 06/10/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/19/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/26/2010

GPC Cleanup: (Y/N) Y pH: 6.4

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER             | COMPOUND NAME                     | RT               | EST. CONC.      | Q             |
|----|------------------------|-----------------------------------|------------------|-----------------|---------------|
| 01 | 000057-10-3            | n-Hexadecanoic acid               | 15.05            | 1600            | NJ            |
| 02 |                        | Unknown-01                        | 15.11            | 1000            | J             |
| 03 | 052663-58-8            | 1,1'-Biphenyl, 2,3,4',6-tetra     | 15.15            | 960             | NJ            |
| 04 | 035465-71-5            | 2-Phenylnaphthalene               | 15.30            | 1200            | NJ            |
| 05 | 041464-40-8            | 1,1'-Biphenyl, 2,2',4,5'-tetr     | 15.34            | 1100            | NJ            |
| 06 | 000483-87-4            | Phenanthrene, 1,7-dimethyl-       | 15.46            | 1600            | NJ            |
| 07 |                        | Unknown-02                        | 15.50            | 2100            | J             |
| 08 | 003674-66-6            | Phenanthrene, 2,5-dimethyl-       | 15.59            | 1700            | NJ            |
| 09 |                        | Unknown-03                        | 15.67            | 920             | J             |
| 10 |                        | Unknown-04                        | 17.50            | 1000            | J             |
| 11 | <del>000301-02-0</del> | <del>9-Octadecenamide, (Z)-</del> | <del>18.08</del> | <del>1300</del> | <del>NJ</del> |
| 12 | 000111-02-4            | 2,6,10,14,18,22-Tetracosahexa     | 18.23            | 1000            | NJ            |
| 13 |                        | Unknown-05                        | 18.29            | 1200            | J             |
| 14 | 000205-99-2            | Benz[e]acephenanthrylene          | 18.65            | 1000            | NJ            |
| 15 |                        | Unknown-06                        | 18.85            | 1100            | J             |
| 16 |                        | Unknown-07                        | 19.24            | 1300            | J             |
| 17 |                        | Unknown-08                        | 19.37            | 1200            | J             |
| 18 |                        | Unknown-09                        | 19.88            | 930             | J             |
| 19 |                        | Unknown-10                        | 20.33            | 1000            | J             |
| 20 |                        | Unknown-11                        | 22.89            | 1100            | J             |
| 21 |                        |                                   |                  |                 |               |
| 22 |                        |                                   |                  |                 |               |
| 23 |                        |                                   |                  |                 |               |
| 24 |                        |                                   |                  |                 |               |
| 25 |                        |                                   |                  |                 |               |
| 26 |                        |                                   |                  |                 |               |
| 27 |                        |                                   |                  |                 |               |
| 28 |                        |                                   |                  |                 |               |
| 29 |                        |                                   |                  |                 |               |
| 30 |                        |                                   |                  |                 |               |
|    | E966796 <sup>2</sup>   | Total Alkanes                     | N/A              |                 |               |

<sup>2</sup> EPA-designated Registry Number.

Su 01/01/10

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3178.03  
Sample wt/vol: 30.00 (g/mL) G Lab File ID: F36909  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 26 Decanted: (Y/N) N Date Received: 06/10/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME               | RT    | EST. CONC. | Q  |
|----|----------------------|-----------------------------|-------|------------|----|
| 01 |                      | Unknown-01                  | 14.81 | 1200       | J  |
| 02 |                      | Unknown-02                  | 14.98 | 1100       | J  |
| 03 |                      | Unknown-03                  | 15.05 | 890        | J  |
| 04 |                      | Unknown-04                  | 15.31 | 1100       | J  |
| 05 |                      | Unknown-05                  | 15.42 | 890        | J  |
| 06 |                      | Unknown-06                  | 15.51 | 2000       | J  |
| 07 | 003674-65-5          | Phenanthrene, 2,3-dimethyl- | 15.59 | 1800       | NJ |
| 08 |                      | Unknown-07                  | 15.62 | 1400       | J  |
| 09 |                      | Unknown-08                  | 15.68 | 990        | J  |
| 10 |                      | Unknown-09                  | 18.20 | 1200       | J  |
| 11 |                      | Unknown-10                  | 18.29 | 1100       | J  |
| 12 |                      | Unknown-11                  | 18.78 | 1200       | J  |
| 13 |                      | Unknown-12                  | 19.24 | 1000       | J  |
| 14 |                      | Unknown-13                  | 19.35 | 1600       | J  |
| 15 |                      | Unknown-14                  | 19.83 | 1100       | J  |
| 16 |                      | Unknown-15                  | 20.26 | 1300       | J  |
| 17 |                      | Unknown-16                  | 20.67 | 840        | J  |
| 18 |                      | Unknown-17                  | 21.60 | 950        | J  |
| 19 |                      | Unknown-18                  | 22.09 | 990        | J  |
| 20 |                      |                             |       |            |    |
| 21 |                      |                             |       |            |    |
| 22 |                      |                             |       |            |    |
| 23 |                      |                             |       |            |    |
| 24 |                      |                             |       |            |    |
| 25 |                      |                             |       |            |    |
| 26 |                      |                             |       |            |    |
| 27 |                      |                             |       |            |    |
| 28 |                      |                             |       |            |    |
| 29 |                      |                             |       |            |    |
| 30 |                      |                             |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes               | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45B4RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3178.03RE  
Sample wt/vol: 30.00 (g/mL) G Lab File ID: F36933  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 26 Decanted: (Y/N) N Date Received: 06/10/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2010  
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 |                      | Unknown-01                    | 15.04 | 950        | J  |
| 02 | 006572-60-7          | Tricyclo[8.2.2.2(4,7)]hexadec | 15.30 | 1300       | NJ |
| 03 |                      | Unknown-02                    | 15.33 | 820        | J  |
| 04 |                      | Unknown-03                    | 15.36 | 910        | J  |
| 05 | 000483-87-4          | Phenanthrene, 1,7-dimethyl-   | 15.50 | 1700       | NJ |
| 06 |                      | Unknown-04                    | 15.52 | 830        | J  |
| 07 | 003674-65-5          | Phenanthrene, 2,3-dimethyl-   | 15.58 | 1500       | NJ |
| 08 | 005737-13-3          | Cyclopenta(def)phenanthrenone | 15.67 | 920        | NJ |
| 09 |                      | Unknown-05                    | 17.49 | 1300       | J  |
| 10 | 002541-69-7          | Benz[a]anthracene, 7-methyl-  | 17.65 | 840        | NJ |
| 11 |                      | Unknown-06                    | 17.82 | 870        | J  |
| 12 |                      | Unknown-07                    | 18.07 | 1300       | J  |
| 13 |                      | Unknown-08                    | 18.28 | 1100       | J  |
| 14 |                      | Unknown-09                    | 18.35 | 970        | J  |
| 15 | 000205-99-2          | Benz[e]acephenanthrylene      | 18.64 | 1200       | NJ |
| 16 |                      | Unknown-10                    | 18.75 | 1100       | J  |
| 17 |                      | Unknown-11                    | 19.32 | 840        | J  |
| 18 |                      | Unknown-12                    | 19.52 | 940        | J  |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C45B5  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3179.01  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36952  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 5.0 Decanted: (Y/N) N Date Received: 06/10/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2010  
GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 | 000057-10-3          | n-Hexadecanoic acid           | 15.03 | 660        | NJ |
| 02 |                      | Unknown-01                    | 15.10 | 760        | J  |
| 03 |                      | Unknown-02                    | 15.58 | 700        | J  |
| 04 | 1000155-82-2         | Bicyclo[10.8.0]eicosane, cis- | 19.23 | 730        | NJ |
| 05 |                      |                               |       |            |    |
| 06 |                      |                               |       |            |    |
| 07 |                      |                               |       |            |    |
| 08 |                      |                               |       |            |    |
| 09 |                      |                               |       |            |    |
| 10 |                      |                               |       |            |    |
| 11 |                      |                               |       |            |    |
| 12 |                      |                               |       |            |    |
| 13 |                      |                               |       |            |    |
| 14 |                      |                               |       |            |    |
| 15 |                      |                               |       |            |    |
| 16 |                      |                               |       |            |    |
| 17 |                      |                               |       |            |    |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   | 890        | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45B6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3178.04  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36907  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 43 Decanted: (Y/N) N Date Received: 06/10/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME          | RT    | EST. CONC. | Q  |
|----|----------------------|------------------------|-------|------------|----|
| 01 |                      | Unknown-01             | 15.74 | 760        | J  |
| 02 | 000301-02-0          | 9-Octadecenamide, (Z)- | 18.06 | 1300       | NJ |
| 03 |                      | Unknown-02             | 18.22 | 1000       | J  |
| 04 |                      | Unknown-03             | 21.08 | 920        | J  |
| 05 |                      | Unknown-04             | 21.70 | 820        | J  |
| 06 |                      |                        |       |            |    |
| 07 |                      |                        |       |            |    |
| 08 |                      |                        |       |            |    |
| 09 |                      |                        |       |            |    |
| 10 |                      |                        |       |            |    |
| 11 |                      |                        |       |            |    |
| 12 |                      |                        |       |            |    |
| 13 |                      |                        |       |            |    |
| 14 |                      |                        |       |            |    |
| 15 |                      |                        |       |            |    |
| 16 |                      |                        |       |            |    |
| 17 |                      |                        |       |            |    |
| 18 |                      |                        |       |            |    |
| 19 |                      |                        |       |            |    |
| 20 |                      |                        |       |            |    |
| 21 |                      |                        |       |            |    |
| 22 |                      |                        |       |            |    |
| 23 |                      |                        |       |            |    |
| 24 |                      |                        |       |            |    |
| 25 |                      |                        |       |            |    |
| 26 |                      |                        |       |            |    |
| 27 |                      |                        |       |            |    |
| 28 |                      |                        |       |            |    |
| 29 |                      |                        |       |            |    |
| 30 |                      |                        |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes          | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3178.05  
Sample wt/vol: 30.20 (g/mL) G Lab File ID: F36904  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 48 Decanted: (Y/N) N Date Received: 06/10/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME         | RT    | EST. CONC. | Q  |
|----|----------------------|-----------------------|-------|------------|----|
| 01 | 000112-84-5          | 13-Docosenamide, (Z)- | 18.06 | 1600       | NJ |
| 02 | 007683-64-9          | Squalene              | 18.23 | 950        | NJ |
| 03 |                      | Unknown-01            | 19.51 | 820        | J  |
| 04 |                      | Unknown-02            | 21.10 | 940        | J  |
| 05 |                      |                       |       |            |    |
| 06 |                      |                       |       |            |    |
| 07 |                      |                       |       |            |    |
| 08 |                      |                       |       |            |    |
| 09 |                      |                       |       |            |    |
| 10 |                      |                       |       |            |    |
| 11 |                      |                       |       |            |    |
| 12 |                      |                       |       |            |    |
| 13 |                      |                       |       |            |    |
| 14 |                      |                       |       |            |    |
| 15 |                      |                       |       |            |    |
| 16 |                      |                       |       |            |    |
| 17 |                      |                       |       |            |    |
| 18 |                      |                       |       |            |    |
| 19 |                      |                       |       |            |    |
| 20 |                      |                       |       |            |    |
| 21 |                      |                       |       |            |    |
| 22 |                      |                       |       |            |    |
| 23 |                      |                       |       |            |    |
| 24 |                      |                       |       |            |    |
| 25 |                      |                       |       |            |    |
| 26 |                      |                       |       |            |    |
| 27 |                      |                       |       |            |    |
| 28 |                      |                       |       |            |    |
| 29 |                      |                       |       |            |    |
| 30 |                      |                       |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes         | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.  
C45B8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C4598  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3178.06  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36905  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 40 Decanted: (Y/N) N Date Received: 06/10/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/19/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2010  
GPC Cleanup: (Y/N) Y pH: 5.0 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME          | RT               | EST. CONC.     | Q            |
|----|----------------------|------------------------|------------------|----------------|--------------|
| 01 | 000301-02-0          | 9-Octadecenamide, (Z)- | 16.61            | 480            | NJ           |
| 02 |                      | <del>Unknown-01</del>  | <del>18.06</del> | <del>910</del> | <del>J</del> |
| 03 |                      | Unknown-02             | 19.51            | 540            | J            |
| 04 |                      |                        |                  |                |              |
| 05 |                      |                        |                  |                |              |
| 06 |                      |                        |                  |                |              |
| 07 |                      |                        |                  |                |              |
| 08 |                      |                        |                  |                |              |
| 09 |                      |                        |                  |                |              |
| 10 |                      |                        |                  |                |              |
| 11 |                      |                        |                  |                |              |
| 12 |                      |                        |                  |                |              |
| 13 |                      |                        |                  |                |              |
| 14 |                      |                        |                  |                |              |
| 15 |                      |                        |                  |                |              |
| 16 |                      |                        |                  |                |              |
| 17 |                      |                        |                  |                |              |
| 18 |                      |                        |                  |                |              |
| 19 |                      |                        |                  |                |              |
| 20 |                      |                        |                  |                |              |
| 21 |                      |                        |                  |                |              |
| 22 |                      |                        |                  |                |              |
| 23 |                      |                        |                  |                |              |
| 24 |                      |                        |                  |                |              |
| 25 |                      |                        |                  |                |              |
| 26 |                      |                        |                  |                |              |
| 27 |                      |                        |                  |                |              |
| 28 |                      |                        |                  |                |              |
| 29 |                      |                        |                  |                |              |
| 30 |                      |                        |                  |                |              |
|    | E966796 <sup>2</sup> | Total Alkanes          | N/A              |                |              |

<sup>2</sup> EPA-designated Registry Number.

*Su 07/02/10*

SOM01.2 (6/2007)



1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45B9

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_

SDG No.: C45B5

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-3179.02

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: F36931

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N

Date Received: 06/10/2010

Concentrated Extract Volume: 500 (uL)

Date Extracted: 06/20/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/27/2010

GPC Cleanup: (Y/N) Y pH: 7.1

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME        | RT    | EST. CONC. | Q  |
|----|----------------------|----------------------|-------|------------|----|
| 01 | 007683-64-9          | Squalene             | 18.22 | 670        | NJ |
| 02 |                      | Unknown-01           | 20.29 | 810        | J  |
| 03 | 036645-68-8          | 1,30-Triacontanediol | 20.61 | 700        | NJ |
| 04 |                      | Unknown-02           | 21.55 | 640        | J  |
| 05 |                      |                      |       |            |    |
| 06 |                      |                      |       |            |    |
| 07 |                      |                      |       |            |    |
| 08 |                      |                      |       |            |    |
| 09 |                      |                      |       |            |    |
| 10 |                      |                      |       |            |    |
| 11 |                      |                      |       |            |    |
| 12 |                      |                      |       |            |    |
| 13 |                      |                      |       |            |    |
| 14 |                      |                      |       |            |    |
| 15 |                      |                      |       |            |    |
| 16 |                      |                      |       |            |    |
| 17 |                      |                      |       |            |    |
| 18 |                      |                      |       |            |    |
| 19 |                      |                      |       |            |    |
| 20 |                      |                      |       |            |    |
| 21 |                      |                      |       |            |    |
| 22 |                      |                      |       |            |    |
| 23 |                      |                      |       |            |    |
| 24 |                      |                      |       |            |    |
| 25 |                      |                      |       |            |    |
| 26 |                      |                      |       |            |    |
| 27 |                      |                      |       |            |    |
| 28 |                      |                      |       |            |    |
| 29 |                      |                      |       |            |    |
| 30 |                      |                      |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes        | N/A   | 1100       | J  |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45C5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032  
Lab Code: KAP Case No.: 40185 Mod. Ref No.: \_\_\_\_\_ SDG No.: C45B5  
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-3183.01  
Sample wt/vol: 30.10 (g/mL) G Lab File ID: F36930  
Level: (LOW/MED) LOW Extraction: (Type) SONC  
% Moisture: 28 Decanted: (Y/N) N Date Received: 06/11/2010  
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2010  
Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2010  
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0  
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|    | CAS NUMBER           | COMPOUND NAME                  | RT    | EST. CONC. | Q  |
|----|----------------------|--------------------------------|-------|------------|----|
| 01 |                      | Unknown-01                     | 14.00 | 670        | J  |
| 02 |                      | Unknown-02                     | 14.11 | 1000       | J  |
| 03 |                      | Unknown-03                     | 14.59 | 800        | J  |
| 04 |                      | Unknown-04                     | 14.68 | 650        | J  |
| 05 |                      | Unknown-05                     | 14.75 | 2000       | J  |
| 06 |                      | Unknown-06                     | 14.90 | 700        | J  |
| 07 | 000613-12-7          | Anthracene, 2-methyl-          | 14.97 | 580        | NJ |
| 08 | 000057-10-3          | n-Hexadecanoic acid            | 15.04 | 830        | NJ |
| 09 | 038419-74-8          | 2H-3,5a-Epoxynaphth[2,1-b]oxep | 15.23 | 630        | NJ |
| 10 |                      | Unknown-07                     | 15.38 | 600        | J  |
| 11 |                      |                                |       |            |    |
| 12 |                      |                                |       |            |    |
| 13 |                      |                                |       |            |    |
| 14 |                      |                                |       |            |    |
| 15 |                      |                                |       |            |    |
| 16 |                      |                                |       |            |    |
| 17 |                      |                                |       |            |    |
| 18 |                      |                                |       |            |    |
| 19 |                      |                                |       |            |    |
| 20 |                      |                                |       |            |    |
| 21 |                      |                                |       |            |    |
| 22 |                      |                                |       |            |    |
| 23 |                      |                                |       |            |    |
| 24 |                      |                                |       |            |    |
| 25 |                      |                                |       |            |    |
| 26 |                      |                                |       |            |    |
| 27 |                      |                                |       |            |    |
| 28 |                      |                                |       |            |    |
| 29 |                      |                                |       |            |    |
| 30 |                      |                                |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                  | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45C3

*Fred Blank*

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_

SDG No.: C45B5

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-3179.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: F36940

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Received: 06/10/2010

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 06/14/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/27/2010

GPC Cleanup: (Y/N) N pH: 7.3

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

|    | CAS NUMBER           | COMPOUND NAME                 | RT    | EST. CONC. | Q  |
|----|----------------------|-------------------------------|-------|------------|----|
| 01 |                      | Unknown 01                    | 10.14 | 0.2        | JB |
| 02 | 022599-96-8          | Cholestan-3-ol, 2-methylene-, | 18.22 | 6.5        | NJ |
| 03 |                      |                               |       |            |    |
| 04 |                      |                               |       |            |    |
| 05 |                      |                               |       |            |    |
| 06 |                      |                               |       |            |    |
| 07 |                      |                               |       |            |    |
| 08 |                      |                               |       |            |    |
| 09 |                      |                               |       |            |    |
| 10 |                      |                               |       |            |    |
| 11 |                      |                               |       |            |    |
| 12 |                      |                               |       |            |    |
| 13 |                      |                               |       |            |    |
| 14 |                      |                               |       |            |    |
| 15 |                      |                               |       |            |    |
| 16 |                      |                               |       |            |    |
| 17 |                      |                               |       |            |    |
| 18 |                      |                               |       |            |    |
| 19 |                      |                               |       |            |    |
| 20 |                      |                               |       |            |    |
| 21 |                      |                               |       |            |    |
| 22 |                      |                               |       |            |    |
| 23 |                      |                               |       |            |    |
| 24 |                      |                               |       |            |    |
| 25 |                      |                               |       |            |    |
| 26 |                      |                               |       |            |    |
| 27 |                      |                               |       |            |    |
| 28 |                      |                               |       |            |    |
| 29 |                      |                               |       |            |    |
| 30 |                      |                               |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                 | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

*Su 07/01/2010*

SOM01.2 (6/2007)

1K - FORM I SV-TIC  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C45C4

*Rimate Blank.*

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 40185

Mod. Ref No.: \_\_\_\_\_ SDG No.: C45B5

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-3179.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: F36920

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Received: 06/10/2010

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 06/14/2010

Injection Volume: 1.0 (uL)

Date Analyzed: 06/27/2010

GPC Cleanup: (Y/N) N pH: 6.5

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

|    | CAS NUMBER           | COMPOUND NAME                  | RT    | EST. CONC. | Q  |
|----|----------------------|--------------------------------|-------|------------|----|
| 01 | 000123-95-5          | Octadecanoic acid, butyl ester | 16.62 | 17         | NJ |
| 02 | 000301-02-0          | 9-Octadecenamide, (Z)-         | 18.05 | 21         | NJ |
| 03 |                      |                                |       |            |    |
| 04 |                      |                                |       |            |    |
| 05 |                      |                                |       |            |    |
| 06 |                      |                                |       |            |    |
| 07 |                      |                                |       |            |    |
| 08 |                      |                                |       |            |    |
| 09 |                      |                                |       |            |    |
| 10 |                      |                                |       |            |    |
| 11 |                      |                                |       |            |    |
| 12 |                      |                                |       |            |    |
| 13 |                      |                                |       |            |    |
| 14 |                      |                                |       |            |    |
| 15 |                      |                                |       |            |    |
| 16 |                      |                                |       |            |    |
| 17 |                      |                                |       |            |    |
| 18 |                      |                                |       |            |    |
| 19 |                      |                                |       |            |    |
| 20 |                      |                                |       |            |    |
| 21 |                      |                                |       |            |    |
| 22 |                      |                                |       |            |    |
| 23 |                      |                                |       |            |    |
| 24 |                      |                                |       |            |    |
| 25 |                      |                                |       |            |    |
| 26 |                      |                                |       |            |    |
| 27 |                      |                                |       |            |    |
| 28 |                      |                                |       |            |    |
| 29 |                      |                                |       |            |    |
| 30 |                      |                                |       |            |    |
|    | E966796 <sup>2</sup> | Total Alkanes                  | N/A   |            |    |

<sup>2</sup> EPA-designated Registry Number.

SOM01.2 (6/2007)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE : July 6, 2010  
SUBJECT: Region III Data QA Review  
FROM: Colleen Walling *Colleen K. Walling*  
Region III ESAT RPO (3EA20)  
TO: Charlene Creamer  
Regional Project Manager (3HS12)

Attached is the inorganic data validation report for the Metro Container Corp. site (Case #: 40185; SDG#: MC4598) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

cc: [REDACTED] (TTEMI)

TO: #0027 TDF: #06098

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE



Lockheed Martin IS&GS – Civil  
Energy & Environment  
ESAT Region 3  
US EPA Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Telephone 410-305-3037 Facsimile 410-305-3597

**DATE:** June 30, 2010

**SUBJECT:** Level IM2 Inorganic Data Validation for Case 40185  
SDG: MC4598  
Site: Metro Container Corp.

**FROM:** [REDACTED]  
Inorganic Data Reviewer

**Through:** [REDACTED]  
Senior Data Review Chemist

**TO:** Colleen Walling  
ESAT Region 3 Project Officer

### **OVERVIEW**

Case 40185, Sample Delivery Group (SDG) MC4598, consisted of eighteen (18) soil samples, one (1) associated field blank and one (1) associated rinsate blank submitted to ChemTech Consulting Group (CHEM) for total metals analyses. The sample set included one (1) field duplicate pair. Samples were analyzed in accordance with Contract Laboratory Program (CLP) Statement of Work (SOW) ILM05.4 through the Routine Analytical Services (RAS) program.

### **SUMMARY**

Data were validated according to the Region III Modifications to the National Functional Guidelines for Inorganic Data Review, level IM2. Areas of concern with respect to data usability are listed below.

Data in this Case have been impacted by outliers present in the laboratory blanks as well as the matrix spike and the ICP serial dilution analyses. Details for these outliers are discussed under "Minor Problems", specific samples affected are outlined in "Table 1A" and qualified analytical results for all samples are summarized on the Data Summary Forms (DSFs).

**MINOR PROBLEMS**

The Preparation Blank (PB) had a reported result greater than the Method Detection Limit (MDL) for sodium (Na). Positive results reported for this analyte in all soil samples which are less than five times ( $< 5X$ ) the blank concentration may be biased high and have been qualified "B" on the DSFs.

PBs and/or a Continuing Calibration Blank (CCB) had negative results greater than the absolute values of the MDLs for the analytes listed below. The positive result reported for iron (Fe) in sample MC45C3 which is less than two times ( $< 2X$ ) the absolute value of the blank concentration may be biased low. The "L" qualifier for this outlier in this sample has been superseded by "J" on the DSF. Quantitation limits for these analytes in affected samples may be biased low and have been qualified "UL" on the DSFs.

| <u>Matrix</u> | <u>Blank</u> | <u>Affected Samples</u>                |
|---------------|--------------|--|
| Soil          | PB           | thallium (Tl)                          |
| Aqueous       | PB<br>CCB    | iron (Fe), silver (Ag)<br>vanadium (V) |

Percent Differences (%Ds) for the ICP serial dilution analysis were outside the control limit ( $>10\%$ ) for copper (Cu), Fe, magnesium (Mg) and zinc (Zn). Reported positive results regarding these analytes in all soil samples are estimated and have been qualified "J" on the DSFs.

The matrix spike recovery was low ( $<75\%$  but  $> 30\%$ ) for antimony (Sb). The low recovery may be attributed to matrix interferences or analyte lost during the digestion process. Reported results for this analyte in affected soil samples may be biased low and have been qualified "L" on the DSFs unless superseded by "J". Quantitation limit for this analyte in affected soil samples may be biased low and have been qualified "UL" on the DSFs.

Matrix spike recoveries were high ( $>125\%$ ) for manganese (Mn) and Zn. Positive results reported for these analytes in all soil samples may be biased high and have been qualified "K" unless superseded by "J" on the DSFs.

**NOTES**

Positive results which are less than the Contract Required Quantitation Limits (CRQLs) but greater than MDLs have been qualified "J" on the DSFs unless superseded by "B".

The soil Laboratory Control Sample (LCS) reported a result above the MDL for potassium (K). Therefore, the LCS result for this analyte was reported as a non-detect on Form 7. The lower acceptance limit for this analyte was also below the laboratory MDL which makes the recovery of this analyte within the control limit. No data were qualified based on LCS recovery.

The post digestion spike recovery was low (<75% but > 30%) for Zn. No data were qualified based on this outlier.

Sample MC45A8 was used to perform QC (matrix spike, laboratory duplicate and serial dilution analyses) for the soil samples only because the two (2) aqueous samples were field and rinsate blanks and do not require laboratory QC.

Reported results for field duplicate pair MC45A3/MC45A6 were within 35% Relative Percent Difference (RPD),  $\pm 2XCRQL$  for all analytes except for barium (Ba), chromium (Cr), Cu, lead (Pb), Mn, mercury (Hg) and Zn.

Data for Case 40185, SDG MC4598, were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Evaluating Inorganic Analyses, April 1993.

## **ATTACHMENTS**

### **INFORMATION REGARDING REPORT CONTENT**

|                   |  |
|-------------------|--|
| <b>TABLES 1A</b>  | <b>SUMMARY OF QUALIFIERS ON DATA SUMMARY FORMS AFTER DATA VALIDATION</b> |
| <b>TABLE 1B</b>   | <b>CODES USED IN COMMENTS COLUMN OF TABLES 1A</b>                        |
| <b>APPENDIX A</b> | <b>GLOSSARY OF DATA QUALIFIER CODES</b>                                  |
| <b>APPENDIX B</b> | <b>DATA SUMMARY FORM(S)</b>  |
| <b>APPENDIX C</b> | <b>CHAIN OF CUSTODY RECORD(S)</b>  |
| <b>APPENDIX D</b> | <b>LABORATORY CASE NARRATIVE(S)</b>                                      |

DCN: 40185\_MC4598.IM2

**TABLE 1A**  
**SUMMARY OF QUALIFIERS ON DATA SUMMARY**  
**FORM AFTER DATA VALIDATION**

Case 40185, SDG MC4598

| <u>ANALYTE</u> | <u>SAMPLES<br/>AFFECTED</u>   | <u>POSITIVE<br/>VALUES</u> | <u>NON-<br/>DETECTED<br/>VALUES</u> | <u>BIAS</u> | <u>COMMENTS*</u>                     |
|----------------|---|----------------------------|-------------------------------------|-------------|--------------------------------------|
| Sb             | MC45A1, MC45A6,<br>MC45B6, MC45B7,<br>MC45B8, MC4598                            | L                          | UL                                  | Low         | MSL (74%)                            |
|                | All Soil Samples Except<br>MC45A1, MC45A6,<br>MC45B6, MC45B7,<br>MC45B8, MC4598 | J                          |                                     |             | > MDL < CRQL<br>MSL (74%)            |
| Cu             | All Soil Samples  | J                          |                                     |             | SD (13%)                             |
| Fe             | All Soil Samples  | J                          |                                     |             | SD (11%)                             |
|                | MC45C4  |                            | UL                                  | Low         | PBN (-15.504 J ug/L)                 |
|                | MC45C3  | J                          |                                     |             | > MDL < CRQL<br>PBN (-15.504 J ug/L) |
| Mg             | All Soil Samples  | J                          |                                     |             | SD (11%)                             |
| Mn             | All Soil Samples  | K                          |                                     | High        | MSH (226%)                           |
| Ag             | MC45C3, MC45C4  |                            | UL                                  | Low         | PBN (- 0.452 J ug/L)                 |
| Na             | All Soil Samples  | B                          |                                     | High        | PB (139.533 J mg/Kg)                 |
| Tl             | All Soil Samples  |                            | UL                                  | Low         | PBN (- 0.373 J mg/Kg)                |
| V              | MC45C3, MC45C4  |                            | UL                                  | Low         | CBN (- 0.365 J ug/L)                 |
| Zn             | All Soil Samples  | J                          |                                     |             | SD (11%)<br>MSH (139%)               |

\* See explanation of comments in Table 1B

**TABLE 1B**  
**CODES USED IN COMMENTS COLUMN**

|               |   |   |
|---------------|---|---|
| MSL           | = | The matrix spike recovery was low (>30 % but < 75%) [the %recovery is in parenthesis]. Reported results and quantitation limits may be biased low.  |
| >MDL<br><CRQL | = | Reported results are between MDL and CRQL and are considered estimated.   |
| SD            | = | Percent differences (%Ds) for the ICP serial dilution analysis were outside the control limit (>10%) [the %D are in parenthesis]. Positive results are estimated.   |
| PBN           | = | Preparation blanks had reported negative results greater than absolute values of MDLs [result are in parenthesis]. Reported results which are less than two times (< 2X) the absolute value of the blank and quantitation limits may be biased low. |
| MSH           | = | Matrix spike recoveries were high (>125%) [%recoveries are in parenthesis]. Reported results may be biased high.  |
| PB            | = | The preparation blank had reported results greater than the MDLs [results are in parenthesis]. Reported results which are less than five times (<5X) the blank concentration may be biased high.  |
| CBN           | = | The continuing calibration blank had a reported negative result greater than absolute value of MDL [the result is in parenthesis]. Quantitation limits may be biased low.   |



**APPENDIX A**  
**Glossary of Qualifier Codes**

## **GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)**

### **CODES RELATED TO IDENTIFICATION**

(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present.  
Special methods may be needed to confirm its presence or absence in future sampling efforts.

### **CODES RELATED TO QUANTITATION**

(can be used for both positive results and sample quantitation limits):

J = Analyte Present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low.  
Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

### **OTHER CODES**

Q = No analytical result.

**APPENDIX B**  
**Data Summary Forms**

## DATA SUMMARY FORM: INORGANIC

Page 1 of 5

Case #: 40185

SDG : MC4598

Number of Soil Samples : 18

Site :

METRO CONTAINER CORP

Number of Water Samples : 2

Lab. :

CHEM

| Sample Number :     |      | MC45A0   |      | MC45A1   |      | MC45A2   |      | MC45A3         |      | MC45A4   |      |
|---------------------|------|----------|------|----------|------|----------|------|----------------|------|----------|------|
| Sampling Location : |      | MC-SD-05 |      | MC-SD-06 |      | MC-SD-07 |      | MC-SD-10       |      | MC-SD-11 |      |
| Field QC :          |      |          |      |          |      |          |      | Dup. of MC45A6 |      |          |      |
| Matrix :            |      | Soil     |      | Soil     |      | Soil     |      | Soil           |      | Soil     |      |
| Units :             |      | mg/Kg    |      | mg/Kg    |      | mg/Kg    |      | mg/Kg          |      | mg/Kg    |      |
| Date Sampled :      |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010       |      | 6/7/2010 |      |
| Time Sampled :      |      | 12:35    |      | 12:05    |      | 11:40    |      | 16:16          |      | 16:08    |      |
| %Solids :           |      | 76.7     |      | 73.5     |      | 79.3     |      | 58.3           |      | 49.0     |      |
| Dilution Factor :   |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0            |      | 1.0      |      |
| ANALYTE             | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result         | Flag | Result   | Flag |
| ALUMINUM            | 20   | 7480     |      | 5140     |      | 4030     |      | 8860           |      | 11000    |      |
| ANTIMONY            | 6    | 0.57     | J    |          | UL   | 0.29     | J    | 0.55           | J    | 1.3      | J    |
| ARSENIC             | 1    | 9.2      |      | 2.7      |      | 3.0      |      | 7.6            |      | 13.1     |      |
| BARIUM              | 20   | 3750     |      | 66.7     |      | 412      |      | 147            |      | 203      |      |
| BERYLLIUM           | 0.5  | 2.1      |      | 0.53     | J    | 0.60     |      | 0.60           |      | 0.87     |      |
| CADMIUM             | 0.5  | 2.7      |      | 0.20     | J    | 0.67     |      | 1.5            |      | 2.1      |      |
| CALCIUM             | 500  | 21100    |      | 863      |      | 9940     |      | 3180           |      | 3220     |      |
| CHROMIUM            | 1    | 239      |      | 17.5     |      | 50.2     |      | 37.8           |      | 49.1     |      |
| COBALT              | 5    | 7.8      |      | 7.6      |      | 3.9      | J    | 8.6            |      | 11.8     |      |
| COPPER              | 2.5  | 1080     | J    | 9.3      | J    | 41.9     | J    | 126            | J    | 137      | J    |
| IRON                | 10   | 20100    | J    | 8630     | J    | 13900    | J    | 17300          | J    | 20600    | J    |
| *LEAD               | 1    | 283      |      | 18.3     |      | 56.6     |      | 106            |      | 153      |      |
| MAGNESIUM           | 500  | 4800     | J    | 1540     | J    | 5440     | J    | 2780           | J    | 3480     | J    |
| MANGANESE           | 1.5  | 653      | K    | 76.0     | K    | 260      | K    | 461            | K    | 604      | K    |
| MERCURY             | 0.1  | 0.81     |      | 0.082    | J    | 0.16     |      | 2.0            |      | 1.2      |      |
| NICKEL              | 4    | 54.7     |      | 30.8     |      | 16.2     |      | 31.0           |      | 38.2     |      |
| POTASSIUM           | 500  | 962      |      | 584      |      | 729      |      | 724            |      | 1080     |      |
| SELENIUM            | 3.5  | 3.4      |      | 1.5      | J    | 2.2      | J    | 2.6            | J    | 4.3      | J    |
| SILVER              | 1    | 0.68     | J    | 0.12     | J    | 0.22     | J    | 1.5            |      | 1.2      | J    |
| SODIUM              | 500  | 500      | B    | 219      | B    | 171      | B    | 244            | B    | 290      | B    |
| THALLIUM            | 2.5  |          | UL   |          | UL   |          | UL   |                | UL   |          | UL   |
| VANADIUM            | 5    | 62.5     |      | 17.8     |      | 19.7     |      | 42.5           |      | 56.1     |      |
| ZINC                | 6    | 546      | J    | 33.3     | J    | 143      | J    | 255            | J    | 355      | J    |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / (%Solids/ 100)

Revised 09/99

## DATA SUMMARY FORM: INORGANIC

Page 2 of 5

Case #: 40185

SDG : MC4598

Site :

METRO CONTAINER CORP

Lab. :

CHEM

| Sample Number :     |      | MC45A5   |      | MC45A6         |      | MC45A7   |      | MC45A8   |      | MC45A9   |      |
|---------------------|------|----------|------|----------------|------|----------|------|----------|------|----------|------|
| Sampling Location : |      | MC-SD-12 |      | MC-SD-13       |      | MC-SD-15 |      | MC-SD-16 |      | MC-SS-01 |      |
| Field QC :          |      |          |      | Dup. of MC45A3 |      |          |      |          |      |          |      |
| Matrix :            |      | Soil     |      | Soil           |      | Soil     |      | Soil     |      | Soil     |      |
| Units :             |      | mg/Kg    |      | mg/Kg          |      | mg/Kg    |      | mg/Kg    |      | mg/Kg    |      |
| Date Sampled :      |      | 6/7/2010 |      | 6/7/2010       |      | 6/7/2010 |      | 6/7/2010 |      | 6/7/2010 |      |
| Time Sampled :      |      | 16:00    |      | 16:19          |      | 16:00    |      | 16:30    |      | 11:20    |      |
| %Solids :           |      | 64.2     |      | 53.5           |      | 72.0     |      | 48.3     |      | 96.1     |      |
| Dilution Factor :   |      | 1.0      |      | 1.0            |      | 1.0      |      | 1.0      |      | 1.0      |      |
| ANALYTE             | CRQL | Result   | Flag | Result         | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| ALUMINUM            | 20   | 12100    |      | 11900          |      | 5500     |      | 6940     |      | 6640     |      |
| ANTIMONY            | 6    | 0.33     | J    |                | UL   | 0.64     | J    | 0.33     | J    | 4.1      | J    |
| ARSENIC             | 1    | 4.6      |      | 10.1           |      | 5.6      |      | 6.5      |      | 3.7      |      |
| BARIUM              | 20   | 104      |      | 94.1           |      | 66.5     |      | 95.4     |      | 339      |      |
| BERYLLIUM           | 0.5  | 0.77     |      | 0.84           |      | 0.36     | J    | 0.66     | J    | 1.5      |      |
| CADMIUM             | 0.5  | 0.81     |      | 0.55           | J    | 0.86     |      | 0.061    | J    | 13.9     |      |
| CALCIUM             | 500  | 2020     |      | 2520           |      | 1890     |      | 3010     |      | 10900    |      |
| CHROMIUM            | 1    | 35.2     |      | 67.8           |      | 17.0     |      | 27.2     |      | 143      |      |
| COBALT              | 5    | 11.1     |      | 10.4           |      | 5.4      | J    | 8.3      | J    | 15.3     | .    |
| COPPER              | 2.5  | 32.2     | J    | 31.2           | J    | 54.1     | J    | 33.3     | J    | 167      | J    |
| IRON                | 10   | 25900    | J    | 18300          | J    | 9900     | J    | 16500    | J    | 26800    | J    |
| *LEAD               | 1    | 32.8     |      | 54.7           |      | 49.6     |      | 39.8     |      | 665      |      |
| MAGNESIUM           | 500  | 4260     | J    | 3580           | J    | 2050     | J    | 3040     | J    | 5290     | J    |
| MANGANESE           | 1.5  | 390      | K    | 295            | K    | 278      | K    | 732      | K    | 377      | K    |
| MERCURY             | 0.1  |          |      | 0.49           |      | 0.21     |      | 0.21     | J    | 2.6      |      |
| NICKEL              | 4    | 23.3     |      | 22.9           |      | 11.1     |      | 16.4     |      | 33.5     |      |
| POTASSIUM           | 500  | 803      |      | 880            |      | 391      | J    | 918      | J    | 1810     |      |
| SELENIUM            | 3.5  | 3.5      | J    | 3.1            | J    | 1.9      | J    | 2.7      | J    | 3.9      |      |
| SILVER              | 1    | 0.42     | J    | 0.25           | J    | 0.39     | J    | 0.59     | J    | 1.6      |      |
| SODIUM              | 500  | 301      | B    | 321            | B    | 221      | B    | 299      | B    | 238      | B    |
| THALLIUM            | 2.5  |          | UL   |                | UL   |          | UL   |          | UL   |          | UL   |
| VANADIUM            | 5    | 35.4     |      | 31.3           |      | 12.2     |      | 20.5     |      | 26.7     |      |
| ZINC                | 6    | 112      | J    | 97.7           | J    | 187      | J    | 179      | J    | 1220     | J    |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / (%Solids/ 100)

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## DATA SUMMARY FORM: INORGANIC

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Case #: 40185

SDG : MC4598

Site :

METRO CONTAINER CORP

Lab. :

CHEM

| Sample Number :     |      | MC45B0   |      | MC45B1   |      | MC45B6   |      | MC45B7   |      | MC45B8   |      |
|---------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location : |      | MC-SS-02 |      | MC-SS-03 |      | MC-SD-17 |      | MC-SD-18 |      | MC-SD-19 |      |
| Field QC :          |      |          |      |          |      |          |      |          |      |          |      |
| Matrix :            |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      | Soil     |      |
| Units :             |      | mg/Kg    |      | mg/Kg    |      | mg/Kg    |      | mg/Kg    |      | mg/Kg    |      |
| Date Sampled :      |      | 6/7/2010 |      | 6/7/2010 |      | 6/8/2010 |      | 6/8/2010 |      | 6/8/2010 |      |
| Time Sampled :      |      | 12:02    |      | 12:40    |      | 16:24    |      | 16:14    |      | 16:02    |      |
| %Solids :           |      | 93.9     |      | 94.9     |      | 56.5     |      | 51.7     |      | 60.5     |      |
| Dilution Factor :   |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| ANALYTE             | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag | Result   | Flag |
| ALUMINUM            | 20   | 6100     |      | 5590     |      | 10800    |      | 14600    |      | 12800    |      |
| ANTIMONY            | 6    | 2.6      | J    | 0.87     | J    |          | UL   |          | UL   |          | UL   |
| ARSENIC             | 1    | 5.1      |      | 6.9      |      | 5.4      |      | 6.4      |      | 5.9      |      |
| BARIUM              | 20   | 210      |      | 140      |      | 138      |      | 104      |      | 103      |      |
| BERYLLIUM           | 0.5  | 1.0      |      | 0.36     | J    | 0.98     |      | 0.82     | J    | 0.81     |      |
| CADMIUM             | 0.5  | 7.3      |      | 3.4      |      | 0.54     | J    | 0.62     | J    | 0.49     | J    |
| CALCIUM             | 500  | 9460     |      | 9390     |      | 2430     |      | 2240     |      | 1840     |      |
| CHROMIUM            | 1    | 184      |      | 64.4     |      | 31.8     |      | 41.0     |      | 36.5     |      |
| COBALT              | 5    | 11.3     |      | 7.0      |      | 8.8      |      | 11.3     |      | 9.7      |      |
| COPPER              | 2.5  | 114      | J    | 52.8     | J    | 18.2     | J    | 9.1      | J    | 8.8      | J    |
| IRON                | 10   | 25600    | J    | 20600    | J    | 17100    | J    | 24000    | J    | 18000    | J    |
| LEAD                | 1    | 445      |      | 191      |      | 20.4     |      | 11.4     |      | 10.6     |      |
| MAGNESIUM           | 500  | 5260     | J    | 4720     | J    | 3640     | J    | 5750     | J    | 4270     | J    |
| MANGANESE           | 1.5  | 481      | K    | 294      | K    | 331      | K    | 359      | K    | 223      | K    |
| MERCURY             | 0.1  | 1.6      |      | 0.90     |      |          |      |          |      |          |      |
| NICKEL              | 4    | 28.0     |      | 19.3     |      | 20.5     |      | 24.8     |      | 22.6     |      |
| POTASSIUM           | 500  | 1360     |      | 1130     |      | 1040     |      | 1480     |      | 1120     |      |
| SELENIUM            | 3.5  | 3.4      |      | 3.3      |      | 3.0      | J    | 4.1      | J    | 3.0      | J    |
| SILVER              | 1    | 1.1      |      | 0.57     | J    | 0.21     | J    | 0.33     | J    | 0.17     | J    |
| SODIUM              | 500  | 193      | B    | 185      | B    | 292      | B    | 386      | B    | 325      | B    |
| THALLIUM            | 2.5  |          | UL   |          | UL   |          | UL   |          | UL   |          | UL   |
| VANADIUM            | 5    | 35.8     |      | 28.2     |      | 28.7     |      | 37.1     |      | 33.8     |      |
| ZINC                | 6    | 803      | J    | 626      | J    | 108      | J    | 66.2     | J    | 55.8     | J    |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / (%Solids/ 100)

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## DATA SUMMARY FORM: INORGANIC

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Case #: 40185

SDG : MC4598

Site :

METRO CONTAINER CORP

Lab. :

CHEM

| Sample Number :     |      | MC45B9   |      | MC4598   |      | MC4599   |      |        |      |        |      |
|---------------------|------|----------|------|----------|------|----------|------|--------|------|--------|------|
| Sampling Location : |      | MC-SS-05 |      | MC-SB-02 |      | MC-SB-03 |      |        |      |        |      |
| Field QC :          |      |          |      |          |      |          |      |        |      |        |      |
| Matrix :            |      | Soil     |      | Soil     |      | Soil     |      |        |      |        |      |
| Units :             |      | mg/Kg    |      | mg/Kg    |      | mg/Kg    |      |        |      |        |      |
| Date Sampled :      |      | 6/8/2010 |      | 6/7/2010 |      | 6/7/2010 |      |        |      |        |      |
| Time Sampled :      |      | 17:24    |      | 12:11    |      | 12:48    |      |        |      |        |      |
| %Solids :           |      | 93.8     |      | 92.7     |      | 93.6     |      |        |      |        |      |
| Dilution Factor :   |      | 1.0      |      | 1.0      |      | 1.0      |      |        |      |        |      |
| ANALYTE             | CRQL | Result   | Flag | Result   | Flag | Result   | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 20   | 7980     |      | 6340     |      | 6130     |      |        |      |        |      |
| ANTIMONY            | 6    | 0.43     | J    | 5.7      | L    | 0.93     | J    |        |      |        |      |
| ARSENIC             | 1    | 8.6      |      | 3.0      |      | 7.2      |      |        |      |        |      |
| BARIUM              | 20   | 118      |      | 366      |      | 144      |      |        |      |        |      |
| BERYLLIUM           | 0.5  | 0.49     |      | 1.5      |      | 0.65     |      |        |      |        |      |
| CADMIUM             | 0.5  | 0.82     |      | 18.2     |      | 3.1      |      |        |      |        |      |
| CALCIUM             | 500  | 4610     |      | 17000    |      | 16000    |      |        |      |        |      |
| CHROMIUM            | 1    | 24.6     |      | 184      |      | 53.5     |      |        |      |        |      |
| COBALT              | 5    | 7.3      |      | 17.3     |      | 7.2      |      |        |      |        |      |
| COPPER              | 2.5  | 33.3     | J    | 158      | J    | 56.1     | J    |        |      |        |      |
| IRON                | 10   | 14000    | J    | 23800    | J    | 19700    | J    |        |      |        |      |
| *LEAD               | 1    | 158      |      | 851      |      | 183      |      |        |      |        |      |
| MAGNESIUM           | 500  | 3200     | J    | 8320     | J    | 8250     | J    |        |      |        |      |
| MANGANESE           | 1.5  | 401      | K    | 312      | K    | 273      | K    |        |      |        |      |
| MERCURY             | 0.1  | 0.75     |      | 3.1      |      | 0.89     |      |        |      |        |      |
| NICKEL              | 4    | 17.5     |      | 29.9     |      | 19.6     |      |        |      |        |      |
| POTASSIUM           | 500  | 1250     |      | 1680     |      | 990      |      |        |      |        |      |
| SELENIUM            | 3.5  | 2.2      | J    | 3.5      |      | 2.6      | J    |        |      |        |      |
| SILVER              | 1    | 0.30     | J    | 2.0      |      | 0.43     | J    |        |      |        |      |
| SODIUM              | 500  | 103      | B    | 274      | B    | 189      | B    |        |      |        |      |
| THALLIUM            | 2.5  |          | UL   |          | UL   |          | UL   |        |      |        |      |
| VANADIUM            | 5    | 33.4     |      | 24.7     |      | 28.4     |      |        |      |        |      |
| ZINC                | 6    | 153      | J    | 1160     | J    | 543      | J    |        |      |        |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / (%Solids/ 100)

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## DATA SUMMARY FORM: INORGANIC

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Case #: 40185

SDG : MC4598

Site :

METRO CONTAINER CORP

Lab. :

CHEM

| Sample Number :     |      | MC45C3      |      | MC45C4        |      |        |      |        |      |        |      |
|---------------------|------|-------------|------|---------------|------|--------|------|--------|------|--------|------|
| Sampling Location : |      | MC-FB-01    |      | MC-RB-01      |      |        |      |        |      |        |      |
| Field QC :          |      | Field Blank |      | Rinsate Blank |      |        |      |        |      |        |      |
| Matrix :            |      | Water       |      | Water         |      |        |      |        |      |        |      |
| Units :             |      | ug/L        |      | ug/L          |      |        |      |        |      |        |      |
| Date Sampled :      |      | 6/8/2010    |      | 6/8/2010      |      |        |      |        |      |        |      |
| Time Sampled :      |      | 13:30       |      | 17:41         |      |        |      |        |      |        |      |
| Dilution Factor :   |      | 1.0         |      | 1.0           |      |        |      |        |      |        |      |
| ANALYTE             | CRQL | Result      | Flag | Result        | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 200  | 6.6         | J    |               |      |        |      |        |      |        |      |
| ANTIMONY            | 60   |             |      |               |      |        |      |        |      |        |      |
| *ARSENIC            | 10   |             |      |               |      |        |      |        |      |        |      |
| BARIUM              | 200  |             |      |               |      |        |      |        |      |        |      |
| BERYLLIUM           | 5    |             |      |               |      |        |      |        |      |        |      |
| *CADMIUM            | 5    |             |      |               |      |        |      |        |      |        |      |
| CALCIUM             | 5000 |             |      |               |      |        |      |        |      |        |      |
| *CHROMIUM           | 10   |             |      |               |      |        |      |        |      |        |      |
| COBALT              | 50   |             |      |               |      |        |      |        |      |        |      |
| COPPER              | 25   |             |      |               |      |        |      |        |      |        |      |
| IRON                | 100  | 22.3        | J    |               | UL   |        |      |        |      |        |      |
| *LEAD               | 10   |             |      |               |      |        |      |        |      |        |      |
| MAGNESIUM           | 5000 |             |      |               |      |        |      |        |      |        |      |
| MANGANESE           | 15   |             |      |               |      |        |      |        |      |        |      |
| MERCURY             | 0.2  |             |      |               |      |        |      |        |      |        |      |
| *NICKEL             | 40   | 0.46        | J    |               |      |        |      |        |      |        |      |
| POTASSIUM           | 5000 |             |      |               |      |        |      |        |      |        |      |
| SELENIUM            | 35   |             |      |               |      |        |      |        |      |        |      |
| SILVER              | 10   |             | UL   |               | UL   |        |      |        |      |        |      |
| SODIUM              | 5000 |             |      |               |      |        |      |        |      |        |      |
| THALLIUM            | 25   |             |      |               |      |        |      |        |      |        |      |
| VANADIUM            | 50   |             | UL   |               | UL   |        |      |        |      |        |      |
| ZINC                | 60   | 3.4         | J    |               |      |        |      |        |      |        |      |

CRQL = Contract Required Quantitation Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor)

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## **APPENDIX C**

### **Chain of Custody (COC) Records**



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |   |                         |             |                    |
|--|---|-------------------------|-------------|--------------------|
| Region: 3  | Date Shipped: 6/8/2010  | Chain of Custody Record |             | Sampler Signature: |
| Project Code:                                    | Carrier Name: FedEx   |                         |             |                    |
| Account Code:                                    | Airbill: 8731 0479 8151   | (Date / Time)           | Received By | (Date / Time)      |
| CERCLIS ID: PAD044545895                         | Shipped to: ChemTech Consulting Group (CHEM)<br>284 Sheffield Street<br>Mountainside NJ 07092<br>(908) 789-8900 | 4/8/10 1500             |             |                    |
| Spill ID:  |   | 2                       |             |                    |
| Site Name/State: Metro Container Corp Project/PA |   | 3                       |             |                    |
| Project Leader:                                  |   | 4                       |             |                    |
| Action: Expanded Site Investigation/RI           |   |                         |             |                    |
| Sampling Co: Tetra Tech                          |   |                         |             |                    |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No/ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME |       | ORGANIC SAMPLE No. | QC Type               |
|----------------------|-----------------|------------|----------------------|-------------------------------|------------------|--------------------------|-------|--------------------|-----------------------|
| MC4598               | Soil (>12")/    | M/G        | AES&Hg - S (14)      | 437 (Ice Only) (1)            | MC-SB-02         | S: 6/7/2010              | 12:11 | C4598              | -                     |
| MC4599               | Soil (>12")/    | M/G        | AES&Hg - S (14)      | 439 (Ice Only) (1)            | MC-SB-03         | S: 6/7/2010              | 12:48 | C4599              | -                     |
| MC45A0               | Sediment/       | M/G        | AES&Hg - S (14)      | 441 (Ice Only) (1)            | MC-SD-05         | S: 6/7/2010              | 12:35 | C45A0              | -                     |
| MC45A1               | Sediment/       | M/G        | AES&Hg - S (14)      | 443 (Ice Only) (1)            | MC-SD-06         | S: 6/7/2010              | 12:05 | C45A1              | -                     |
| MC45A2               | Sediment/       | M/G        | AES&Hg - S (14)      | 445 (Ice Only) (1)            | MC-SD-07         | S: 6/7/2010              | 11:40 | C45A2              | -                     |
| MC45A3               | Sediment/       | M/G        | AES&Hg - S (14)      | 447 (Ice Only) (1)            | MC-SD-10         | S: 6/7/2010              | 16:16 | C45A3              | -                     |
| MC45A4               | Sediment/       | M/G        | AES&Hg - S (14)      | 449 (Ice Only) (1)            | MC-SD-11         | S: 6/7/2010              | 16:08 | C45A4              | -                     |
| MC45A5               | Sediment/       | M/G        | AES&Hg - S (14)      | 451 (Ice Only) (1)            | MC-SD-12         | S: 6/7/2010              | 16:00 | C45A5              | -                     |
| MC45A6               | Sediment/       | M/G        | AES&Hg - S (14)      | 453 (Ice Only) (1)            | MC-SD-13         | S: 6/7/2010              | 16:19 | C45A6              | Duplicate of MC-SD-10 |
| MC45A7               | Sediment/       | M/G        | AES&Hg - S (14)      | 455 (Ice Only) (1)            | MC-SD-15         | S: 6/7/2010              | 16:00 | C45A7              | -                     |
| MC45A8               | Sediment/       | M/G        | AES&Hg - S (14)      | 457 (Ice Only) (1)            | MC-SD-16         | S: 6/7/2010              | 16:30 | C45A8              | -                     |

|  |  |   |                               |
|--|--|---|-------------------------------|
| Shipment for Case Complete? N                                    | Sample(s) to be used for laboratory QC: MC45A8   | Additional Sampler Signature(s):        | Chain of Custody Seal Number: |
| Analysis Key: AES&Hg - S = CLP TAL Metals - Soil - ICP/AES & Mer | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Shipment Iced? _____          |

TR Number: 3-242195023-060810-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: , CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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AR103614



**USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

Case No: 40185

DAS No:

**R**

|   |  |                                |                               |
|---|--|--------------------------------|-------------------------------|
| Region: 3                                 | Date Shipped: 6/8/2010                       | <b>Chain of Custody Record</b> | Sampler Signature:            |
| Project Code:                             | Carrier Name: FedEx                          |                                | Relinquished By (Date / Time) |
| Account Code:                             | Airbill: 8731 0479 8151                      |                                |                               |
| CERCLIS ID: PAD044545895                  | Shipped to: ChemTech Consulting Group (CHEM) | 6/8/10 17:00                   |                               |
| Spill ID:                                 | 284 Sheffield Street                         | 2                              |                               |
| Site Name/State: Metro Container Corp. PA | Mountainside NJ 07092                        | 3                              |                               |
| Project Leader:                           | (908) 789-8900                               | 4                              |                               |
| Action: Expanded Site Investigation/RI    |  |                                |                               |
| Sampling Co: Tetra Tech                   |  |                                |                               |

| INORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | ORGANIC<br>SAMPLE No. | QC<br>Type |
|-------------------------|--------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|-------|-----------------------|------------|
| MC45A9                  | Soil (0"-12")/     | M/G           | AES&Hg - S (14)         | 459 (Ice Only) (1)               | MC-SS-01            | S: 6/7/2010                 | 11:20 | C45A9                 | -          |
| MC45B0                  | Soil (0"-12")/     | M/G           | AES&Hg - S (14)         | 461 (Ice Only) (1)               | MC-SS-02            | S: 6/7/2010                 | 12:02 | C45B0                 | -          |
| MC45B1                  | Soil (0"-12")/     | M/G           | AES&Hg - S (14)         | 463 (Ice Only) (1)               | MC-SS-03            | S: 6/7/2010                 | 12:40 | C45B1                 | -          |

|   |   |   |                               |
|---|---|---|-------------------------------|
| Shipment for Case Complete? N                                       | Sample(s) to be used for laboratory QC:<br>MC45A8 | Additional Sampler Signature(s):        | Chain of Custody Seal Number: |
| Analysis Key:<br>AES&Hg - S = CLP TAL Metals - Soil - ICP/AES & Mer | Concentration: L = Low, M = Low/Medium, H = High  | Type/Designate: Composite = C, Grab = G | Shipment Iced? _____          |

TR Number: 3-242195023-060810-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: , CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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AR103615



**EPA USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

Case No: 40185

DAS No:

**R**

|  |   |                               |                               |
|--|---|-------------------------------|-------------------------------|
| Region: 3                                | Date Shipped: 6/9/2010  | Chain of Custody Record       | Sampler Signature: [Redacted] |
| Project Code:                            | Carrier Name: FedEx   |                               |                               |
| Account Code:                            | Airbill: 8731 0479 8130   | Relinquished By (Date / Time) | Received By (Date / Time)     |
| CERCLIS ID: PAD044545895                 | Shipped to: ChemTech Consulting Group (CHEM)<br>284 Sheffield Street<br>Mountainside NJ 07092<br>(908) 789-8900 | 1 [Redacted] 6-9-10 1500      |                               |
| Spill ID:                                |   | 2                             |                               |
| Site Name/State: Metro Container Corp/PA |   | 3                             |                               |
| Project Leader: [Redacted]               |   | 4                             |                               |
| Action: Expanded Site Investigation/RI   |   |                               |                               |
| Sampling Co: Tetra Tech                  |   |                               |                               |

| INORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER           | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No./<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME |       | ORGANIC<br>SAMPLE No. | QC<br>Type  |
|-------------------------|------------------------------|---------------|-------------------------|-----------------------------------|---------------------|-----------------------------|-------|-----------------------|-------------|
| MC45B6                  | Sediment/<br>[Redacted]      | M/G           | AES&Hg - S (14)         | 497 (Ice Only) (1)                | MC-SD-17            | S: 6/8/2010                 | 16:24 | C45B6                 | -           |
| MC45B7                  | Sediment/<br>[Redacted]      | M/G           | AES&Hg - S (14)         | 499 (Ice Only) (1)                | MC-SD-18            | S: 6/8/2010                 | 16:14 | C45B7                 | -           |
| MC45B8                  | Sediment/<br>[Redacted]      | M/G           | AES&Hg - S (14)         | 501 (Ice Only) (1)                | MC-SD-19            | S: 6/8/2010                 | 16:02 | C45B8                 | -           |
| MC45B9                  | Soil (0"-12")/<br>[Redacted] | M/G           | AES&Hg - S (14)         | 503 (Ice Only) (1)                | MC-SS-05            | S: 6/8/2010                 | 17:24 | C45B9                 | -           |
| MC45C3                  | Field QC/<br>[Redacted]      | M/G           | W-TM&Hg (14)            | 517 (HNO3) (1)                    | MC-FB-01            | S: 6/8/2010                 | 13:30 | C45C3                 | Field Blank |
| MC45C4                  | Field QC/<br>[Redacted]      | M/G           | W-TM&Hg (14)            | 522 (HNO3) (1)                    | MC-RB-01            | S: 6/8/2010                 | 17:41 | C45C4                 | Rinsate     |

|  |  |   |                               |
|--|--|---|-------------------------------|
| Shipment for Case Complete? Y  | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Chain of Custody Seal Number: |
| Analysis Key:  | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Shipment Iced? _____          |
| AES&Hg - S = CLP TAL Metals - Soil - ICP/AES & Mer. W-TM&Hg = CLP Water ICP/AES TAL Metals & Mercury |  |   |                               |

TR Number: 3-242195023-060910-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

**REGION COPY**

F2V5.1.047 Page 1 of 1

AR103616

# U.S EPA Region III Analytical Request Form

875 5-21-10

| OASQA USE ONLY |        |                |         |
|----------------|--------|----------------|---------|
| Control #      | CT4996 | NSF #          |         |
| DAS#           |        | Analytical TAT | 14 days |
| PES #          |        |                |         |

40185

|  |                                     |   |                                       |
|--|-------------------------------------|---|---------------------------------------|
| Date: 5/17/2010  |                                     | Site Activity: Expanded Site Inspection   |                                       |
| Site Name: Metro Container Corp.   |                                     | Street Address: 2nd And Price Streets   |                                       |
| City: Trainer  | State: PA                           | Latitude: 39.82642  | Longitude: 75.39903                   |
| Program: Superfund   | Acct. #: 2010 T03N302DD2C032H QB 00 | CERCLIS #: PAD044545895   |                                       |
| Site ID:   | Spill ID: 032H                      | Operable Unit:  |                                       |
| Site Specific QA Plan Submitted: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes   |                                     | Title: START3 QAPP  | Date Approved: November 2006          |
| EPA Project Leader: Charlene Creamer   | Phone#: 215-814-2145                | Cell Phone #:   | E-mail: creamer.charlene@epa.gov      |
| Request Preparer: [REDACTED]   | Phone#: [REDACTED]                  | Cell Phone #: [REDACTED]  | E-mail: [REDACTED]                    |
| Request Preparer: [REDACTED]   | Phone#: [REDACTED]                  | Cell Phone #: [REDACTED]  | E-mail: [REDACTED]                    |
| Contractor: Tetra Tech EM Inc  |                                     | EPA CO/PO: [REDACTED]   |                                       |
| #Samples 37  | Matrix: Soil                        | Parameter: SVOC, PCB  | Method: CLP SOW SOM01.2 32430,31      |
| #Samples 37  | Matrix: Soil                        | Parameter: TAL Metals + Hg  | Method: CLP SOW ILM05.4 ICP-AES 32432 |
| #Samples 2   | Matrix: Blank                       | Parameter: SVOC, PCB  | Method: CLP SOW SOM01.2               |
| #Samples 2   | Matrix: Blank                       | Parameter: TAL Metals + Hg  | Method: CLP SOW ILM05.4 ICP-AES       |
| Ship Date From: 6/7/2010   |                                     | Ship Date To: 6/10/2010   | Org. Validation Level M3              |
| Unvalidated Data Requested: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes  |                                     | If Yes, TAT Needed: <input checked="" type="checkbox"/> 14days <input type="checkbox"/> 7days <input type="checkbox"/> 72hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 24hrs <input type="checkbox"/> Other (Specify) by CSAT |                                       |
| Validated Data Package Due: <input type="checkbox"/> 42 days <input checked="" type="checkbox"/> 30 days <input type="checkbox"/> 21days <input type="checkbox"/> 14 days <input type="checkbox"/> Other (Specify) |                                     | 14/16   |                                       |
| Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format)  |                                     |   |                                       |
| Special Instructions: Required detection limits attached.  |                                     |   |                                       |

## **APPENDIX D**

### **Laboratory Case Narrative**

## USEPA - CLP

## COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065Lab Code: CHEM Case No.: 40185 NRAS No.: \_\_\_\_\_ SDG No.: MC4598SOW No.: ILM05.4

## EPA Sample No.

MC4598  
MC4599  
MC45A0  
MC45A1  
MC45A2  
MC45A3  
MC45A4  
MC45A5  
MC45A6  
MC45A7  
MC45A8  
MC45A8D  
MC45A8S  
MC45A9  
MC45B0  
MC45B1  
MC45B6  
MC45B7  
MC45B8  
MC45B9  
MC45C3  
MC45C4

## Lab Sample ID

B2630-01  
B2630-02  
B2630-03  
B2630-04  
B2630-05  
B2630-06  
B2630-07  
B2630-08  
B2630-09  
B2630-10  
B2630-11  
B2630-12  
B2630-13  
B2630-14  
B2630-15  
B2630-16  
B2630-17  
B2630-18  
B2630-19  
B2630-20  
B2630-21  
B2630-22

|   |          | ICP-AES    | ICP-MS |
|---|----------|------------|--------|
| Were ICP-AES and ICP-MS interelement corrections applied?                     | (Yes/No) | <u>YES</u> | _____  |
| Were ICP-AES and ICP-MS background corrections applied?                       | (Yes/No) | <u>YES</u> | _____  |
| If yes, were raw data generated before application of background corrections? | (Yes/No) | <u>NO</u>  | _____  |

## Comments:

THE "E" QUALIFIERS ON FORM I AND VIII FOR COPPER, IRON, MAGNESIUM AND ZINC INDICATE CHEMICAL OR PHYSICAL INTERFERENCE EFFECTS, WHICH WERE SUSPECTED DURING THOSE ELEMENTS' ANALYSES ONLY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: 6/22/10Title: DOCUMENT CONTROL OFFICER

**CHEMTECH**  
284 Sheffield Street  
Mountainside, NJ 07092

## **SDG NARRATIVE**

USEPA  
SDG # MC4598  
CASE # 40185  
CONTRACT # EPW08065  
LAB NAME: CHEMTECH CONSULTING GROUP  
LAB CODE: CHEM  
CHEMTECH PROJECT # B2630

### **A. Number of Samples and Date of Receipt**

18 Soil & 2 Water Samples were delivered to the laboratory intact on 06/09/10 & 06/10/10.

### **B. Parameters**

Test requested for Metals CLP Full & Hg ,

### **C. Cooler Temp**

Indicator Bottle: Presence/Absence  
Cooler: 4°C

### **D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):**

### **E. Corrective Action taken for above:**

### **F. Analytical Techniques:**

All analyses were based on CLP Methodology by method ILM05.4

### **G. Calculation:**

#### ***Calculation example for ICP-AES Soil Sample:***

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/  
% Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X

## **CHEMTECH**

**284 Sheffield Street**

**Mountainside, NJ 07092**

20)

(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep =  $1/10.2$  ( $1.02 \times 10$  or  $0.51 \times 20$ )

(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

### ***Calculation example for ICP-AES Water Sample:***

Results reported in Ug/L = Results in ppm  $\times 1000 \times$  Dilution Factor (if any)  $\times$  Fraction of Sample Amount Taken in ICP Water- Prep

Fraction of Sample Amount Taken in ICP Water- Prep =  $100/100$  or  $50/50 = 1$

(if 100 ml Initial Volume taken and Final Volume was made to 100 ml or 50 ml Initial Volume and Final Volume made to 50 ml in ICP-AES Water Digestion procedure)

### ***Calculation example for Hg Soil Sample:***

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg)  $\times$  Fraction of % Solid ( $100/\%$  Solid)  $\times$  Dilution Factor (if any)  $\times$  Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep =  $1/2$  ( $0.2 \times 10$ )

(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep =  $1/2.1$  ( $0.21 \times 10$ )

(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

### ***Calculation example for Hg Water Sample:***

Results reported in Ug/L = Results in ppb  $\times$  Dilution Factor (if any)  $\times$  Fraction of Sample Amount Taken



**CHEMTECH****284 Sheffield Street****Mountainside, NJ 07092**


in Water Hg-Prep.

Fraction of Sample Amount Taken in Water Hg-Prep =  $100/100 = 1$   
( if 100 ml Initial Volume taken and made it to Final Volume as 100 ml)

**H. QA/ QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Manganese & Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Copper, Iron, Magnesium, & Zinc.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature: Name: Date: 6/22/10

Title: Document Control Officer

CHEMTECH

PERCENT SOLIDS

ANALYST: [REDACTED]

DATE: 06/11/10

QC: LB50267

B2630

| Lab ID   | Client ID | Dish # | Dish Weight (g) | Dish Wt. + Sample (g) | Dish Wt. + Dry Sample (g) | % Solids |
|----------|-----------|--------|-----------------|-----------------------|---------------------------|----------|
| B2630-01 | MC4598    | 1      | 1.18            | 9.02                  | 8.45                      | 92.7     |
| B2630-02 | MC4599    | 2      | 1.16            | 9.09                  | 8.58                      | 93.6     |
| B2630-03 | MC45A0    | 3      | 1.2             | 9.06                  | 7.23                      | 76.7     |
| B2630-04 | MC45A1    | 4      | 1.17            | 9.03                  | 6.95                      | 73.5     |
| B2630-05 | MC45A2    | 5      | 1.19            | 9.06                  | 7.43                      | 79.3     |
| B2630-06 | MC45A3    | 6      | 1.18            | 9.05                  | 5.77                      | 58.3     |
| B2630-07 | MC45A4    | 7      | 1.17            | 9.04                  | 5.03                      | 49.0     |
| B2630-08 | MC45A5    | 8      | 1.18            | 9.06                  | 6.24                      | 64.2     |
| B2630-09 | MC45A6    | 9      | 1.17            | 9.08                  | 5.4                       | 53.5     |
| B2630-10 | MC45A7    | 10     | 1.16            | 9.02                  | 6.82                      | 72.0     |
| B2630-11 | MC45A8    | 11     | 1.16            | 9                     | 4.95                      | 48.3     |
| B2630-12 | MC45A8D   | 12     | 1.18            | 8.99                  | 4.94                      | 48.1     |
| B2630-13 | MC45A8S   | 13     | NR              | NR                    | NR                        | NR       |
| B2630-14 | MC45A9    | 14     | 1.15            | 9.08                  | 8.77                      | 96.1     |
| B2630-15 | MC45B0    | 15     | 1.15            | 9.07                  | 8.59                      | 93.9     |
| B2630-16 | MC45B1    | 16     | 1.16            | 9.04                  | 8.64                      | 94.9     |
| B2630-17 | MC45B6    | 17     | 1.19            | 9.08                  | 5.65                      | 56.5     |
| B2630-18 | MC45B7    | 18     | 1.17            | 9.08                  | 5.26                      | 51.7     |
| B2630-19 | MC45B8    | 19     | 1.17            | 9                     | 5.91                      | 60.5     |
| B2630-20 | MC45B9    | 20     | 1.18            | 9.04                  | 8.55                      | 93.8     |
| BLANK    | DISH      | B1     | 1.17            | 1.17                  | 1.17                      | 0.0      |

OVEN TEMP: 106°C

TIME IN: 06/10/10 18:00

TIME OUT: \_\_\_\_\_

OVEN TEMP: 106°C

TIME OUT: 06/11/10 9:30 AM

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
Environmental Sciences Center  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

DATE : July 6, 2010

SUBJECT: Region III Data QA Review

FROM: Colleen Walling *Colleen K. Walling*  
Region III ESAT RPO (3EA20)

TO: Charlene Creamer  
Regional Project Manager (3HS12)

Attached is the inorganic data validation report for the Metro Container Corp. site (Case #: 40185; SDG#: MC45B2) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

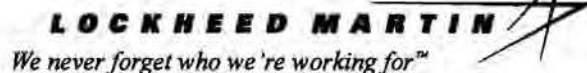
Attachment

cc: [REDACTED]

TO: #0027 TDF: #06099

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

Lockheed Martin IS&GS – Civil  
Energy & Environment  
ESAT Region 3  
US EPA Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Telephone 410-305-3037 Facsimile 410-305-3597



**DATE:** July 1, 2010

**SUBJECT:** Inorganic Data Validation (IM2 Level)  
Case: 40185  
SDG: MC45B2  
Site: Metro Container Corporation

**FROM:** [REDACTED]  
Inorganic Data Reviewer  
[REDACTED]  
Senior Oversight Chemist

**TO:** Colleen Walling  
ESAT Region 3 Project Officer

## **OVERVIEW**

Case 40185, Sample Delivery Group (SDG) MC45B2, consisted of five (5) soil samples analyzed for total metals by Chemtech Consulting Group (CHEM). The sample set contained no field Quality Control (QC) samples. Samples were analyzed in accordance with Contract Laboratory Program (CLP) Statement of Work (SOW) ILM05.4 through the Routine Analytical Services (RAS) program.

## **SUMMARY**

Data were validated according to Region III Modifications to the National Functional Guidelines for Inorganic Data Review, Level IM2. Areas of concern with respect to data usability are listed below.

Field (MC45C3) and rinsate (MC45C4) blanks associated with the samples in this SDG were analyzed under SDG MC4598. No data were impacted by the results of these blanks. Results for these blanks are included in Appendix C.

Data in this case have been impacted by outliers present in the laboratory blanks as well as the matrix spike and ICP serial dilution analyses. Details of these outliers are discussed under "Minor Problems", specific samples affected are outlined in "Table 1A" and qualified analytical results for all samples are summarized on a single Data Summary Form (DSF).



### **MINOR PROBLEMS**

A continuing calibration blank (CCB) had a reported result greater than the Method Detection Limit (MDL) for thallium (Tl). Positive results for this analyte which are less than five times (<5X) the blank concentration may be biased high and have been qualified "B" on the DSF.

The matrix spike recovery was high (>125%) for arsenic (As). Positive results for this analyte in all samples may be biased high. The "K" qualifier for this outlier has been superseded by "J" on the DSF.

The matrix spike recovery was low (<75% but >30%) for selenium (Se). The low recovery may be attributed to matrix interferences or analyte lost during the digestion process. Positive results for this analyte in all samples may be biased low and have been qualified "L" on the DSF unless superseded by "J".

Percent differences (%Ds) in the ICP serial dilution analysis were outside the control limit (>10%) for As, iron (Fe) and lead (Pb). Positive results for these analytes in all samples are estimated due to possible matrix interferences and have been qualified "J" on the DSF.

### **NOTES**

Reported results between MDLs and Contract Required Quantitation Limits (CRQLs) were qualified "J" on the DSFs unless superseded by "B".

The CRQL check standard recovery in CRI04 was high (>130%) for As. Therefore, the laboratory reanalyzed the sample associated with this CRQL check standard (MC45B5A) for As in a separate analytical run. All results were inside control limits; therefore, no data were qualified based on this finding.

Relative percent differences (RPDs) in the laboratory duplicate analysis were outside contractual control limits (20% RPD,  $\pm$ CRQL) for cobalt (Co) and manganese (Mn). However, RPDs for these analytes were within Region 3 established control limits (35% RPD,  $\pm$ 2XCRQL) for soil analysis. No data were qualified for these analytes based on laboratory duplicate imprecision.

The laboratory reported that Hg was outside contractual control limits for the laboratory duplicate analysis. However, the duplicate comparison was within control limits when taking percent solids into account. Therefore, the reviewer removed the "\*" qualifier flag from the Form Is and Form VI.

The solid laboratory control sample (LCS) result was below the MDL for potassium (K) and was reported as a non-detect by the laboratory. However, the lower control limit for this analyte is zero. Therefore, no data were qualified based on this finding.



Data for Case 40185, SDG MC45B2, were reviewed in accordance with the National Functional Guidelines for Evaluating Inorganic Analyses with Modification for use within Region III.

## **ATTACHMENTS**

### **INFORMATION REGARDING REPORT CONTENT**

Table 1A is a summary of qualifiers applied to the laboratory-generated results during data validation.

|            |   |
|------------|---|
| TABLE 1A   | SUMMARY OF QUALIFIERS ON DATA SUMMARY FORMS AFTER DATA VALIDATION |
| TABLE 1B   | CODES USED IN COMMENTS COLUMN OF TABLE 1A                         |
| APPENDIX A | GLOSSARY OF DATA QUALIFIER CODES                                  |
| APPENDIX B | DATA SUMMARY FORMS  |
| APPENDIX C | CHAIN OF CUSTODY RECORDS  |
| APPENDIX D | LABORATORY CASE NARRATIVE   |

DCN: 40185.MC45B2IM2.doc

**TABLE 1A**  
**SUMMARY OF QUALIFIERS ON DATA SUMMARY**  
**FORM AFTER DATA VALIDATION**

Case 40185, SDG MC45B2

| <u>ANALYTE</u> | <u>SAMPLES<br/>AFFECTED</u> | <u>POSITIVE<br/>VALUES</u> | <u>NON-<br/>DETECTED<br/>VALUES</u> | <u>BIAS</u> | <u>COMMENTS*</u>        |
|----------------|-----------------------------|----------------------------|-------------------------------------|-------------|-------------------------|
| As             | All Samples                 | J                          |                                     |             | ISD (13%)<br>MSH (145%) |
| Fe             | All Samples                 | J                          |                                     |             | ISD (11%)               |
| Pb             | All Samples                 | J                          |                                     |             | ISD (11%)               |
| Se             | MC45B3, MC45B4,<br>MC45C5   | J                          |                                     |             | >MDL<CRQL<br>MSL (74%)  |
|                | MC45B2, MC45B5              | L                          |                                     | Low         | MSL (74%)               |
| Tl             | MC45B2, MC45B5              | B                          |                                     | High        | CCB (6.196 J µg/L)      |

\* See explanation of comments in Table 1B

**TABLE 1B**  
**CODES USED IN COMMENTS COLUMN**

|                 |   |   |
|-----------------|---|---|
| ISD             | = | Percent differences (%Ds) in the ICP serial dilution analysis were outside the control limit (>10%) [%Ds are in parenthesis]. Positive results are estimated. |
| MSH             | = | Matrix spike recovery was high (>125%) [% recovery is in parenthesis]. Positive results may be biased high.   |
| >MDL =<br><CRQL |   | Reported results are greater than MDL but less than CRQL and are considered estimated.  |
| MSL             | = | Matrix spike recovery was low (<75% but >30%) [% recovery is in parenthesis]. Positive results may be biased low.   |
| CCB             | = | Continuing calibration blank had a result >MDL [result is in parenthesis]. Positive results which are <5X the blank concentration may be biased high.         |

# **Appendix A**

## Glossary of Data Qualifier Codes

## **GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)**

### **CODES RELATED TO IDENTIFICATION**

(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present.  
Special methods may be needed to confirm its presence or absence in future sampling efforts.

### **CODES RELATED TO QUANTITATION**

(can be used for both positive results and sample quantitation limits):

J = Analyte Present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low.  
Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

### **OTHER CODES**

Q = No analytical result.

# **Appendix B**

## **Data Summary Forms**



## DATA SUMMARY FORM: INORGANIC

Page 1 of 1

Case #: 40185

SDG : MC45B2

Number of Soil Samples : 5

Site :

METRO CONTAINER CORP.

Number of Water Samples : 0

Lab. :

CHEM

|                     |          |          |          |          |           |        |      |        |      |        |      |
|---------------------|----------|----------|----------|----------|-----------|--------|------|--------|------|--------|------|
| Sample Number :     | MC45B2   | MC45B3   | MC45B4   | MC45B5   | MC45C5    |        |      |        |      |        |      |
| Sampling Location : | MC-SB-04 | MC-SD-02 | MC-SD-03 | MC-SS-04 | MC-SD-01  |        |      |        |      |        |      |
| Matrix :            | Soil     | Soil     | Soil     | Soil     | Soil      |        |      |        |      |        |      |
| Units :             | mg/Kg    | mg/Kg    | mg/Kg    | mg/Kg    | mg/Kg     |        |      |        |      |        |      |
| Date Sampled :      | 6/8/2010 | 6/8/2010 | 6/8/2010 | 6/8/2010 | 6/10/2010 |        |      |        |      |        |      |
| Time Sampled :      | 15:10    | 14:30    | 14:01    | 15:00    | 16:00     |        |      |        |      |        |      |
| %Solids :           | 92.8     | 70.0     | 70.0     | 92.4     | 76.7      |        |      |        |      |        |      |
| Dilution Factor :   | 1.0      | 1.0      | 1.0      | 1.0      | 1.0       |        |      |        |      |        |      |
| ANALYTE             | CRQL     | Result   | Flag     | Result   | Flag      | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 20       | 6610     |          | 6600     |           | 6390   |      | 5780   |      | 6430   |      |
| ANTIMONY            | 6        | 13.2     |          | 0.96     | J         | 0.89   | J    | 13.3   |      | 0.42   | J    |
| ARSENIC             | 1        | 22.5     | J        | 2.7      | J         | 5.9    | J    | 18.3   | J    | 4.2    | J    |
| BARIUM              | 20       | 134      |          | 101      |           | 173    |      | 118    |      | 99.7   |      |
| BERYLLIUM           | 0.5      | 0.73     |          | 0.57     | J         | 0.37   | J    | 0.52   | J    | 0.68   |      |
| CADMIUM             | 0.5      | 3.3      |          | 0.97     |           | 1.1    |      | 2.6    |      | 0.95   |      |
| CALCIUM             | 500      | 5930     |          | 4030     |           | 5830   |      | 2530   |      | 9770   |      |
| CHROMIUM            | 1        | 35.6     |          | 34.1     |           | 66.9   |      | 36.8   |      | 36.1   |      |
| COBALT              | 5        | 45.0     |          | 8.8      |           | 6.0    | J    | 25.2   |      | 5.7    |      |
| COPPER              | 2.5      | 494      |          | 58.0     |           | 66.4   |      | 317    |      | 54.0   |      |
| IRON                | 10       | 68600    | J        | 16600    | J         | 17700  | J    | 83800  | J    | 18200  | J    |
| *LEAD               | 1        | 592      | J        | 99.1     | J         | 82.4   | J    | 522    | J    | 89.3   | J    |
| MAGNESIUM           | 500      | 3310     |          | 4290     |           | 5340   |      | 1320   |      | 6540   |      |
| MANGANESE           | 1.5      | 1320     |          | 292      |           | 210    |      | 616    |      | 194    |      |
| MERCURY             | 0.1      | 0.22     |          | 0.10     | J         | 0.054  | J    | 0.35   |      |        |      |
| NICKEL              | 4        | 39.3     |          | 36.7     |           | 33.8   |      | 29.4   |      | 39.3   |      |
| POTASSIUM           | 500      | 928      |          | 1770     |           | 1490   |      | 967    |      | 1800   |      |
| SELENIUM            | 3.5      | 9.3      | L        | 2.9      | J         | 4.4    | J    | 11.3   | L    | 3.1    | J    |
| SILVER              | 1        | 1.9      |          | 0.45     | J         | 0.27   | J    | 1.8    |      | 0.31   | J    |
| SODIUM              | 500      | 136      | J        | 158      | J         | 214    | J    | 143    | J    | 229    | J    |
| THALLIUM            | 2.5      | 0.43     | B        |          |           |        |      | 0.52   | B    |        |      |
| VANADIUM            | 5        | 26.9     |          | 28.4     |           | 30.0   |      | 31.0   |      | 26.5   |      |
| ZINC                | 6        | 564      |          | 277      |           | 263    |      | 465    |      | 287    |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / (%Solids/ 100)

Revised 09/99

# **Appendix C**

## **Chain-of-Custody Records**



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |  |   |                                       |
|--|--|---|---------------------------------------|
| Region: 3                                | Date Shipped: 6/9/2010                       | Chain of Custody Record                   | Sampler Signature: [Redacted]         |
| Project Code:                            | Carrier Name: FedEx                          | Relinquished By: [Redacted] (Date / Time) | Received By: [Redacted] (Date / Time) |
| Account Code:                            | Airbill: 8731 0479 8130                      | 1. [Redacted] 6-9-10 1500                 |                                       |
| CERCLIS ID: PAD044545895                 | Shipped to: ChemTech Consulting Group (CHEM) | 2. [Redacted]                             |                                       |
| Spill ID:                                | 284 Sheffield Street                         | 3. [Redacted]                             |                                       |
| Site Name/State: Metro Container Corp/PA | Mountainside NJ 07092                        | 4. [Redacted]                             |                                       |
| Project Leader: [Redacted]               | (908) 789-8900                               |   |                                       |
| Action: Expanded Site Investigation/RI   |  |   |                                       |
| Sampling Co: Tetra Tech                  |  |   |                                       |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER              | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No/ PRESERVATIVE/ Bottles      | STATION LOCATION | SAMPLE COLLECT DATE/TIME |       | ORGANIC SAMPLE No. | QC Type |
|----------------------|------------------------------|------------|----------------------|------------------------------------|------------------|--------------------------|-------|--------------------|---------|
| MC45B2               | Soil (>12")/<br>[Redacted]   | M/G        | AES&Hg - S (14)      | 480 (Ice Only) (1)                 | MC-SB-04         | S: 6/8/2010              | 15:10 | C45B2              | -       |
| MC45B3               | Sediment/<br>[Redacted]      | M/G        | AES&Hg - S (14)      | 482 (Ice Only) (1)                 | MC-SD-02         | S: 6/8/2010              | 14:30 | C45B3              | -       |
| MC45B4               | Sediment/<br>[Redacted]      | M/G        | AES&Hg - S (14)      | 484 (Ice Only) (1)                 | MC-SD-03         | S: 6/8/2010              | 14:00 | C45B4              | -       |
| MC45B5               | Soil (0"-12")/<br>[Redacted] | M/G        | AES&Hg - S (14)      | 487 (Ice Only), 488 (Ice Only) (2) | MC-SS-04         | S: 6/8/2010              | 15:00 | C45B5              | -       |

|   |  |  |                               |
|---|--|--|-------------------------------|
| Shipment for Case Complete: [Redacted]                                    | Sample(s) to be used for laboratory QC: MC45B5   | Additional Sample Signatures: [Redacted] | Chain of Custody Seal Number: |
| Analysis Key: AES&Hg - S = CLP TAL Metals - Soil - ICP/AES & M [Redacted] | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G  | Shipment Iced? _____          |

TR Number: 3-242195023-060810-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4802

REGION COPY

F2V5.1.047 Page 1 of 1

AR103636



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 40185

DAS No:

R

|  |   |                               |                               |
|--|---|-------------------------------|-------------------------------|
| Region: 3                                | Date Shipped: 6/10/2010   | Chain of Custody Record       | Sampler Signature: [Redacted] |
| Project Code:                            | Carrier Name: FedEx   | Relinquished By (Date / Time) | Received By (Date / Time)     |
| Account Code:                            | Alrbill: 8731 0479 8118   | 1 [Redacted] 6/10/2010 1730   |                               |
| CERCLIS ID: PAD044545895                 | Shipped to: ChemTech Consulting Group (CHEM)<br>284 Sheffield Street<br>Mountainside NJ 07092<br>(908) 789-8900 | 2                             |                               |
| Spill ID:                                |   | 3                             |                               |
| Site Name/State: Metro Container Corp/PA |   | 4                             |                               |
| Project Leader: [Redacted]               |   |                               |                               |
| Action: Expanded Site Investigation/RI   |   |                               |                               |
| Sampling Co: Tetra Tech                  |   |                               |                               |

| INORGANIC<br>SAMPLE No. | MATRIX/<br>SAMPLER      | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME | ORGANIC<br>SAMPLE No. | QC<br>Type |
|-------------------------|-------------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|-----------------------|------------|
| MC45C5                  | Sediment/<br>[Redacted] | M/G           | AES&Hg - S (14)         | 535 (Ice Only) (1)               | MC-SD-01            | S: 6/10/2010 18:00          | C45C5                 | -          |

|   |  |   |                               |
|---|--|---|-------------------------------|
| Shipment for Case Complete [Redacted]                               | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Chain of Custody Seal Number: |
| Analysis Key:<br>AES&Hg - S = CLP TAL Metals - Soil - ICP/AES & Mer | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Shipment Iced? _____          |

TR Number: 3-242195023-061010-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

REGION COPY

# U.S EPA Region III Analytical Request Form

975 5-21-10

40185

| OASQA USE ONLY |        |                |         |
|----------------|--------|----------------|---------|
| Control #      | CT4996 | RAS #          |         |
| DAS#           |        | NSF #          |         |
| PES #          |        | Analytical TAT | 14 days |

|   |                                     |   |                                       |
|---|-------------------------------------|---|---------------------------------------|
| Date: 5/17/2010   |                                     | Site Activity: Expanded Site Inspection |                                       |
| Site Name: Metro Container Corp.  |                                     | Street Address: 2nd And Price Streets   |                                       |
| City: Trainer   | State: PA                           | Latitude: 39.82642                      | Longitude: 75.39903                   |
| Program: Superfund  | Acct. #: 2010 T03N302DD2C032H QB 00 | CERCLIS #: PAD044545895                 |                                       |
| Site ID:  | Spill ID: 032H                      | Operable Unit:                          |                                       |
| Site Specific QA Plan Submitted: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes  |                                     | Title: START3 QAPP                      | Date Approved: November 2006          |
| EPA Project Leader: Charlene Creamer  | Phone#: 215-814-2145                | Cell Phone #:                           | E-mail: creamer.charlene@epa.gov      |
| Request Preparer: [REDACTED]  | Phone#: [REDACTED]                  | Cell Phone #: [REDACTED]                | E-mail: [REDACTED]                    |
| Request Preparer: [REDACTED]  | Phone#: [REDACTED]                  | Cell Phone #: [REDACTED]                | E-mail: [REDACTED]                    |
| Contractor: Tetra Tech EM Inc   |                                     | EPA CO/PO: [REDACTED]                   |                                       |
| #Samples 37   | Matrix: Soil                        | Parameter: SVOC, PCB                    | Method: CLP SOW SOM01.2 32430,31      |
| #Samples 37   | Matrix: Soil                        | Parameter: TAL Metals + Hg              | Method: CLP SOW ILM05.4 ICP-AES 32432 |
| #Samples 2  | Matrix: Blank                       | Parameter: SVOC, PCB                    | Method: CLP SOW SOM01.2               |
| #Samples 2  | Matrix: Blank                       | Parameter: TAL Metals + Hg              | Method: CLP SOW ILM05.4 ICP-AES       |
| Ship Date From: 6/7/2010  |                                     | Ship Date To: 6/10/2010                 | Org. Validation Level M3              |
| Unvalidated Data Requested: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes   |                                     | Inorg. Validation Level IM2             |                                       |
| If Yes, TAT Needed: <input checked="" type="checkbox"/> 14days <input type="checkbox"/> 7days <input type="checkbox"/> 72hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 24hrs <input type="checkbox"/> Other (Specify) |                                     | by CSAT                                 |                                       |
| Validated Data Package Due: <input type="checkbox"/> 42 days <input checked="" type="checkbox"/> 30 days <input type="checkbox"/> 21days <input type="checkbox"/> 14 days <input type="checkbox"/> Other (Specify)                  |                                     | 14/16                                   |                                       |
| Electronic Data Deliverables Required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (EDDs will be provided in Region 3 EDD Format)   |                                     |   |                                       |
| Special Instructions: Required detection limits attached.   |                                     |   |                                       |

## DATA SUMMARY FORM: INORGANIC (Lab Results)

Page \_\_\_\_ of \_\_\_\_

Case #: 40185

SDG : MC4598

Site :

METRO CONTAINER CORP.

Lab. :

CHEM

|                     |      |             |      |               |      |        |      |        |      |        |      |
|---------------------|------|-------------|------|---------------|------|--------|------|--------|------|--------|------|
| Sample Number :     |      | MC45C3      |      | MC45C4        |      |        |      |        |      |        |      |
| Sampling Location : |      | MC-FB-01    |      | MC-RB-01      |      |        |      |        |      |        |      |
| Field QC :          |      | Field Blank |      | Rinsate Blank |      |        |      |        |      |        |      |
| Matrix :            |      | Water       |      | Water         |      |        |      |        |      |        |      |
| Units :             |      | ug/L        |      | ug/L          |      |        |      |        |      |        |      |
| Date Sampled :      |      | 6/8/2010    |      | 6/8/2010      |      |        |      |        |      |        |      |
| Time Sampled :      |      | 13:30       |      | 17:41         |      |        |      |        |      |        |      |
| Dilution Factor :   |      | 1.0         |      | 1.0           |      |        |      |        |      |        |      |
| ANALYTE             | CRQL | Result      | Flag | Result        | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 200  | 6.6         | J    |               |      |        |      |        |      |        |      |
| ANTIMONY            | 60   |             |      |               |      |        |      |        |      |        |      |
| *ARSENIC            | 10   |             |      |               |      |        |      |        |      |        |      |
| BARIUM              | 200  |             |      |               |      |        |      |        |      |        |      |
| BERYLLIUM           | 5    |             |      |               |      |        |      |        |      |        |      |
| *CADMIUM            | 5    |             |      |               |      |        |      |        |      |        |      |
| CALCIUM             | 5000 |             |      |               |      |        |      |        |      |        |      |
| *CHROMIUM           | 10   |             |      |               |      |        |      |        |      |        |      |
| COBALT              | 50   |             |      |               |      |        |      |        |      |        |      |
| COPPER              | 25   |             |      |               |      |        |      |        |      |        |      |
| IRON                | 100  | 22.3        | J    |               |      |        |      |        |      |        |      |
| *LEAD               | 10   |             |      |               |      |        |      |        |      |        |      |
| MAGNESIUM           | 5000 |             |      |               |      |        |      |        |      |        |      |
| MANGANESE           | 15   |             |      |               |      |        |      |        |      |        |      |
| MERCURY             | 0.2  |             |      |               |      |        |      |        |      |        |      |
| *NICKEL             | 40   | 0.46        | J    |               |      |        |      |        |      |        |      |
| POTASSIUM           | 5000 |             |      |               |      |        |      |        |      |        |      |
| SELENIUM            | 35   |             |      |               |      |        |      |        |      |        |      |
| SILVER              | 10   |             |      |               |      |        |      |        |      |        |      |
| SODIUM              | 5000 |             |      |               |      |        |      |        |      |        |      |
| THALLIUM            | 25   |             |      |               |      |        |      |        |      |        |      |
| VANADIUM            | 50   |             |      |               |      |        |      |        |      |        |      |
| ZINC                | 60   | 3.4         | J    |               |      |        |      |        |      |        |      |

CRQL = Contract Required Quantitation Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL \* Dilution Factor)

Revised 09/99



## **Appendix D**

### **Laboratory Case Narrative**

## USEPA - CLP

## COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065Lab Code: CHEM Case No.: 40185 NRAS No.: \_\_\_\_\_ SDG No.: MC45B2SOW No.: ILM05.4

## EPA Sample No.

MC45B2MC45B3MC45B4MC45B5MC45B5DMC45B5SMC45C5

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## Lab Sample ID

B2640-01B2640-02B2640-03B2640-04B2640-05B2640-06B2640-07

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ICP-AES ICP-MS

Were ICP-AES and ICP-MS interelement corrections applied? (Yes/No) YES \_\_\_\_\_Were ICP-AES and ICP-MS background corrections applied? (Yes/No) YES \_\_\_\_\_If yes, were raw data generated before application of background corrections? (Yes/No) NO \_\_\_\_\_

## Comments:

THE "E" QUALIFIERS ON FORM I AND VIII FOR ARSENIC, IRON AND LEAD INDICATE CHEMICAL OR PHYSICAL INTERFERENCE EFFECTS, WHICH WERE SUSPECTED DURING THOSE ELEMENTS' ANALYSES ONLY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: 6/23/10Title: DOCUMENT CONTROL OFFICER

**CHEMTECH**  
284 Sheffield Street  
Mountainside, NJ 07092

## **SDG NARRATIVE**

USEPA  
SDG # MC45B2  
CASE # 40185  
CONTRACT # EPW08065  
LAB NAME: CHEMTECH CONSULTING GROUP  
LAB CODE: CHEM  
CHEMTECH PROJECT # B2640

### **A. Number of Samples and Date of Receipt**

5 Soil Samples were delivered to the laboratory intact on 06/10/10 & 06/11/10.

### **B. Parameters**

Test requested for ICP Metals CLP FULL (by ICP-AES) & Hg.

### **C. Cooler Temp**

Indicator Bottle: Presence/Absence  
Cooler: 4°C

### **D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):**

### **E. Corrective Action taken for above:**

### **F. Analytical Techniques:**

All analyses were based on CLP Methodology by method ILM05.4

### **G. Calculation:**

#### ***Calculation example for ICP-AES Soil Sample:***

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/  
% Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

## **CHEMTECH**

**284 Sheffield Street**

**Mountainside, NJ 07092**

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep =  $1/10$  ( $1.0 \times 10$  or  $0.50 \times 20$ )

(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep =  $1/10.2$  ( $1.02 \times 10$  or  $0.51 \times 20$ )

(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

### ***Calculation example for Hg Soil Sample:***

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid ( $100/\%$  Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep =  $1/2$  ( $0.2 \times 10$ )

(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep =  $1/2.1$  ( $0.21 \times 10$ )

(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

## **H. QA/QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Arsenic and Selenium. Duplicate sample did meet requirements except for Cobalt and Mercury. Serial Dilution did meet requirements except for Arsenic, Iron and Lead.

**CHEMTECH**  
**284 Sheffield Street**  
**Mountainside, NJ 07092**

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature



Name:



Date

6/23/10

Title: Document Control Officer



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



**Final Analytical Report**

|                                |                                |
|--------------------------------|--------------------------------|
| Site Name.....                 | Metro Container                |
| Sample Collection Date(s)..... | 06/07/10 11:20- 06/10/10 16:00 |
| Contact.....                   | Charlene Creamer               |
| Report Date.....               | 07/30/10 15:49                 |
| Project #.....                 | DAS R33481                     |
| Work Order.....                | 1006011                        |

**Analyses included in this report:**

---

Total Organic Carbon by SM 5310 B

Approved for Release

---

OASQA Representative

1006011 FINAL      DAS R33481      07 30 10 1549  
Page 1 of 20





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



**Site Name: Metro Container**

**Project #: DAS R33481**

**Report Narrative**

TOC Analysis Notes:

All TOC samples are air-dried and results reported on a dry-weight basis.

The result for the matrix spike sample, MS (1006011-18 sample+spike), exceeds the high point on the standard curve; however, the system was linear beyond this point. Impact to result for source sample 1006011-18 is negligible.

The relative percent difference (RPD) for the laboratory duplicate (BG01902-Dup1) was above the RPD limit; therefore, the sample result for 1006011-10 is qualified "J" as estimated.



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

**Site Name: Metro Container****Project #: DAS R33481**

## ANALYTICAL REPORT FOR SAMPLES

| Station ID | Laboratory ID | Matrix   | Date Sampled   | Date Received  |
|------------|---------------|----------|----------------|----------------|
| MC-SB-02   | 1006011-01    | Soil     | 06/07/10 12:11 | 06/9/10 13:20  |
| MC-SB-03   | 1006011-02    | Soil     | 06/07/10 12:48 | 06/9/10 13:20  |
| MC-SD-05   | 1006011-03    | Sediment | 06/07/10 12:35 | 06/9/10 13:20  |
| MC-SD-06   | 1006011-04    | Sediment | 06/07/10 12:05 | 06/9/10 13:20  |
| MC-SD-07   | 1006011-05    | Sediment | 06/07/10 11:40 | 06/9/10 13:20  |
| MC-SD-10   | 1006011-06    | Sediment | 06/07/10 16:16 | 06/9/10 13:20  |
| MC-SD-11   | 1006011-07    | Sediment | 06/07/10 16:08 | 06/9/10 13:20  |
| MC-SD-12   | 1006011-08    | Sediment | 06/07/10 16:00 | 06/9/10 13:20  |
| MC-SD-13   | 1006011-09    | Sediment | 06/07/10 16:19 | 06/9/10 13:20  |
| MC-SD-15   | 1006011-10    | Sediment | 06/07/10 16:00 | 06/9/10 13:20  |
| MC-SD-16   | 1006011-11    | Sediment | 06/07/10 16:30 | 06/9/10 13:20  |
| MC-SS-01   | 1006011-12    | Soil     | 06/07/10 11:20 | 06/9/10 13:20  |
| MC-SS-02   | 1006011-13    | Soil     | 06/07/10 12:02 | 06/9/10 13:20  |
| MC-SS-03   | 1006011-14    | Soil     | 06/07/10 12:40 | 06/9/10 13:20  |
| MC-SD-02   | 1006011-15    | Sediment | 06/08/10 14:30 | 06/10/10 14:15 |
| MC-SD-03   | 1006011-16    | Sediment | 06/08/10 14:01 | 06/10/10 14:15 |
| MC-SB-04   | 1006011-17    | Soil     | 06/08/10 15:10 | 06/10/10 14:15 |
| MC-SS-04   | 1006011-18    | Soil     | 06/08/10 15:00 | 06/10/10 14:15 |
| MC-FB-01   | 1006011-19    | Water    | 06/08/10 13:30 | 06/10/10 14:15 |
| MC-RB-01   | 1006011-20    | Water    | 06/08/10 17:41 | 06/10/10 14:15 |
| MC-SD-17   | 1006011-21    | Sediment | 06/08/10 16:24 | 06/10/10 14:15 |
| MC-SD-18   | 1006011-22    | Sediment | 06/08/10 16:14 | 06/10/10 14:15 |
| MC-SD-19   | 1006011-23    | Sediment | 06/08/10 16:02 | 06/10/10 14:15 |
| MC-SS-05   | 1006011-24    | Soil     | 06/08/10 17:24 | 06/10/10 14:15 |
| MC-SD-01   | 1006011-25    | Sediment | 06/10/10 16:00 | 06/11/10 12:15 |



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



Site Name: Metro Container

Project #: DAS R33481

USEPA Contract Laboratory Program  
Generic Chain of Custody

## Reference Case

Client No: R33481

SDG No:

L

|  |   |  |                        |
|--|---|--|------------------------|
| Date Shipped: 6/8/2010   | Chain of Custody Record                               | Sampler Signature: [Redacted]                            | For Lab Use Only       |
| Carrier Name: FedEx  | Relinquished By: [Redacted] (Date / Time) 6/8/10 1700 | Receiver Signature: [Redacted] (Date / Time) 6/9/10 1320 | Lab Contract No: _____ |
| Airbill: 8731 0479 8173  |   |  | Unit Price: _____      |
| Shipped to: EPA Region 3 Laboratory<br>Environmental Science<br>Center<br>701 Mapes Road<br>Ft. Meade MD 20755<br>(410) 305-2606 | 3 _____   |  | Transfer To: _____     |
|  | 4 _____   |  | Lab Contract No: _____ |
|  |   |  | Unit Price: _____      |

| SAMPLE No. | MATRIX/<br>SAMPLER | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME | FOR LAB USE ONLY<br>Sample Condition On Receipt |
|------------|--------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|---|
| R3348101   | Soil (>12")        | M/G           | TOC (14)                | 464 (1)                          | MC-SB-02            | S: 6/7/2010 12:11           | 1006011-01                                      |
| R3348102   | Soil (>12")        | M/G           | TOC (14)                | 465 (1)                          | MC-SB-03            | S: 6/7/2010 12:48           | 1006011-02                                      |
| R3348103   | Sediment/          | M/G           | TOC (14)                | 466 (1)                          | MC-SD-05            | S: 6/7/2010 12:35           | 1006011-03                                      |
| R3348104   | Sediment/          | M/G           | TOC (14)                | 467 (1)                          | MC-SD-06            | S: 6/7/2010 12:05           | 1006011-04                                      |
| R3348105   | Sediment/          | M/G           | TOC (14)                | 468 (1)                          | MC-SD-07            | S: 6/7/2010 11:40           | 1006011-05                                      |
| R3348106   | Sediment/          | M/G           | TOC (14)                | 469 (1)                          | MC-SD-10            | S: 6/7/2010 16:16           | 1006011-06<br>for 6/10                          |
| R3348107   | Sediment/          | M/G           | TOC (14)                | 470 (1)                          | MC-SD-11            | S: 6/7/2010 16:08           | 1006011-07                                      |
| R3348108   | Sediment/          | M/G           | TOC (14)                | 471 (1)                          | MC-SD-12            | S: 6/7/2010 16:00           | 1006011-08                                      |
| R3348109   | Sediment/          | M/G           | TOC (14)                | 478 (1)                          | MC-SD-13            | S: 6/7/2010 16:19           | 1006011-09                                      |
| R3348110   | Sediment/          | M/G           | TOC (14)                | 473 (1)                          | MC-SD-15            | S: 6/7/2010 16:00           | 1006011-10                                      |

|                               |  |   |  |                               |
|-------------------------------|--|---|--|-------------------------------|
| Shipment for Case Complete 7/ | Sample(s) to be used for laboratory QC: R3348111 | Additional Sampler Signature(s): [Redacted] | Cooler Temperature Upon Receipt: 1.4°C | Chain of Custody Seal Number: |
| Analysis Key:                 | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G     | Custody Seal Intact? _____             | Shipment Iced? _____          |
| TOC = Total Organic Carbon    |  |   |  |                               |

TR Number: 3-242195023-060810-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted] CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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FZV51.047 Page 1 of 2



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



Site Name: Metro Container

Project #: DAS R33481

USEPA Contract Laboratory Program  
Generic Chain of Custody

## Reference Case

Client No: R33481

SDG No:

L

|   |   |  |                        |
|---|---|--|------------------------|
| Date Shipped: 6/8/2010  | Chain of Custody Record                               | Sampler Signature: [Redacted]                      | For Lab Use Only       |
| Carrier Name: FedEx   | Relinquished By: [Redacted] (Date / Time) 6/8/10 1708 | Received By: [Redacted] (Date / Time) 6/9/10 13:20 |                        |
| Airbill: 8731 0479 8173   | 2   | 6/9/10   |                        |
| Shipped to: EPA Region 3 Laboratory<br>Environmental Science Center<br>701 Mapes Road<br>Ft. Meade MD 20755<br>(410) 305-2606 | 3   |  |                        |
|   | 4   |  |                        |
|   |   |  | Lab Contract No: _____ |
|   |   |  | Unit Price: _____      |
|   |   |  | Transfer To: _____     |
|   |   |  | Lab Contract No: _____ |
|   |   |  | Unit Price: _____      |

| SAMPLE No. | MATRIX/<br>SAMPLER           | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No./<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME | FOR LAB USE ONLY<br>Sample Condition On Receipt |
|------------|------------------------------|---------------|-------------------------|-----------------------------------|---------------------|-----------------------------|---|
| R3348111   | Sediment/<br>[Redacted]      | M/G           | TOC (14)                | 474 (1)                           | MC-SD-16            | S: 6/7/2010 16:30           | 1006011-11                                      |
| R3348112   | Soil (0"-12")/<br>[Redacted] | M/G           | TOC (14)                | 475 (1)                           | MC-SS-01            | S: 6/7/2010 11:20           | 1006011-12                                      |
| R3348113   | Soil (0"-12")/<br>[Redacted] | M/G           | TOC (14)                | 476 (1)                           | MC-SS-02            | S: 6/7/2010 12:02           | 1006011-13                                      |
| R3348114   | Soil (0"-12")/<br>[Redacted] | M/G           | TOC (14)                | 477 (1)                           | MC-SS-03            | S: 6/7/2010 12:40           | 1006011-14                                      |

|   |  |   |  |  |
|---|--|---|--|--|
| Shipment for Case Complete? <input checked="" type="checkbox"/> | Sample(s) to be used for laboratory QC: R3348111 | Additional Sampler Signature(s): [Redacted] | Cooler Temperature Upon Receipt: 1.4°C                   | Chain of Custody Seal Number:                      |
| Analysis Key:   | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G     | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |
| TOC = Total Organic Carbon                                      |  |   |  |  |

TR Number: 3-242195023-060810-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [Redacted] CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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F2/51.047 Page 2 of 2



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



Site Name: Metro Container

Project #: DAS R33481

USEPA Contract Laboratory Program  
Generic Chain of Custody

## Reference Case

Client No: R33481

SDG No:

L

| Date Shipped: 6/9/2010<br>Carrier Name: FedEx<br>Airbill: 8731 0479 8140<br>Shipped to: EPA Region 3 Laboratory<br>Environmental Science Center<br>701 Mapes Road<br>Ft. Meade MD 20755<br>(410) 305-2606 | <b>Chain of Custody Record</b><br><table border="1"><thead><tr><th></th><th>(Date / Time)</th><th>Received By</th><th>(Date / Time)</th></tr></thead><tbody><tr><td>1</td><td>6-9-10 1500</td><td>[Signature]</td><td>6/10/10 14:15</td></tr><tr><td>2</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td></tr></tbody></table> |             | (Date / Time) | Received By | (Date / Time) | 1 | 6-9-10 1500 | [Signature] | 6/10/10 14:15 | 2 |  |  |  | 3 |  |  |  | 4 |  |  |  | <b>For Lab Use Only</b><br>Lab Contract No: _____<br>Unit Price: _____<br>Transfer To: _____<br>Lab Contract No: _____<br>Unit Price: _____ |
|---|---|-------------|---------------|-------------|---------------|---|-------------|-------------|---------------|---|--|--|--|---|--|--|--|---|--|--|--|---|
|   | (Date / Time)   | Received By | (Date / Time) |             |               |   |             |             |               |   |  |  |  |   |  |  |  |   |  |  |  |   |
| 1   | 6-9-10 1500   | [Signature] | 6/10/10 14:15 |             |               |   |             |             |               |   |  |  |  |   |  |  |  |   |  |  |  |   |
| 2   |   |             |               |             |               |   |             |             |               |   |  |  |  |   |  |  |  |   |  |  |  |   |
| 3   |   |             |               |             |               |   |             |             |               |   |  |  |  |   |  |  |  |   |  |  |  |   |
| 4   |   |             |               |             |               |   |             |             |               |   |  |  |  |   |  |  |  |   |  |  |  |   |

| SAMPLE No. | MATRIX/<br>SAMPLER           | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME | FOR LAB USE ONLY<br>Sample Condition On Receipt |
|------------|------------------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|---|
| R3348115   | Sediment/<br>[Redacted]      | M/G           | TOC (14)                | 489 (1)                          | MC-SD-02            | S: 6/8/2010 14:30           | 1006011-01515                                   |
| R3348116   | Sediment/<br>[Redacted]      | M/G           | TOC (14)                | 490 (1)                          | MC-SD-03            | S: 6/8/2010 14:00-14:10     | 1006011-16 PLK 6/10/10                          |
| R3348117   | Soil (>12")/<br>[Redacted]   | M/G           | TOC (14)                | 491 (1)                          | MC-SB-04            | S: 6/8/2010 15:10           | 1006011-17                                      |
| R3348118   | Soil (0"-12")/<br>[Redacted] | M/G           | TOC (14)                | 494, 495 (2)                     | MC-SS-04            | S: 6/8/2010 15:00           | 1006011-18                                      |

|   |  |  |  |  |
|---|--|--|--|--|
| Shipment for Case Complete? <input checked="" type="checkbox"/> | Sample(s) to be used for laboratory QC: R3348118 | Additional Sampler Signature(s): [Signature] | Cooler Temperature Upon Receipt: 7.4°C                   | Chain of Custody Seal Number:                      |
| Analysis Key:   | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G      | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |

TOC = Total Organic Carbon

TR Number: 3-242195023-060810-0006

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



Site Name: Metro Container

Project #: DAS R33481

USEPA Contract Laboratory Program  
Generic Chain of Custody

|                  |        |
|------------------|--------|
| Reference Case   |        |
| Client No:       | R33481 |
| SDG No:          |        |
| L                |        |
| For Lab Use Only |        |
| Lab Contract No: |        |
| Unit Price:      |        |
| Transfer To:     |        |
| Lab Contract No: |        |
| Unit Price:      |        |

|   |   |                                       |
|---|---|---------------------------------------|
| Date Shipped: 6/9/2010  | Chain of Custody Record                   | Sampler Signature: [Redacted]         |
| Carrier Name: FedEx   | Relinquished By: [Redacted] (Date / Time) | Received By: [Redacted] (Date / Time) |
| Airbill: 8731 0479 8140   | 1 [Redacted] 6/9/10 1500                  | 2 [Redacted] 6/10/10 1415             |
| Shipped to: EPA Region 3 Laboratory<br>Environmental Science Center<br>701 Mapes Road<br>Ft. Meade MD 20755<br>(410) 305-2606 | 3   | 4                                     |

| SAMPLE No. | MATRIX/<br>SAMPLER           | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No/<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME | FOR LAB USE ONLY<br>Sample Condition On Receipt |
|------------|------------------------------|---------------|-------------------------|----------------------------------|---------------------|-----------------------------|---|
| R3348119   | Field QC/<br>[Redacted]      | M/G           | TOC (14)                | 527 (HCL) (1)                    | MC-FB-01            | S: 6/8/2010 13:30           | 1006011-19                                      |
| R3348120   | Field QC/<br>[Redacted]      | M/G           | TOC (14)                | 528 (HCL) (1)                    | MC-RB-01            | S: 6/8/2010 17:41           | 1006011-20                                      |
| R3348121   | Sediment/<br>[Redacted]      | M/G           | TOC (14)                | 529 (1)                          | MC-SD-17            | S: 6/8/2010 16:24           | 1006011-21                                      |
| R3348122   | Sediment/<br>[Redacted]      | M/G           | TOC (14)                | 530 (1)                          | MC-SD-18            | S: 6/8/2010 16:14           | 1006011-22                                      |
| R3348123   | Sediment/<br>[Redacted]      | M/G           | TOC (14)                | 531 (1)                          | MC-SD-19            | S: 6/8/2010 16:02           | 1006011-23                                      |
| R3348124   | Soil (0"-12")/<br>[Redacted] | M/G           | TOC (14)                | 532 (1)                          | MC-SS-05            | S: 6/8/2010 17:24           | 1006011-24                                      |

|                             |  |   |   |   |
|-----------------------------|--|---|---|---|
| Shipment for Case Complete? | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt: 7.4°C        | Chain of Custody Seal Number:           |
| Analysis Key:               | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input type="checkbox"/> | Shipment Iced? <input type="checkbox"/> |
| TOC = Total Organic Carbon  |  |   |   |   |

TR Number: 3-242195023-060910-0003

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FZV51.047 Page 1 of 1





## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



Site Name: Metro Container

Project #: DAS R33481

USEPA Contract Laboratory Program  
Generic Chain of Custody

|                |        |
|----------------|--------|
| Reference Case |        |
| Client No:     | R33481 |
| SDG No:        |        |
| L              |        |

|                  |  |
|------------------|--|
| For Lab Use Only |  |
| Lab Contract No: |  |
| Unit Price:      |  |
| Transfer To:     |  |
| Lab Contract No: |  |
| Unit Price:      |  |

|   |                                |                               |
|---|--------------------------------|-------------------------------|
| Date Shipped: 6/10/2010   | <b>Chain of Custody Record</b> | Sampler Signature: [Redacted] |
| Carrier Name: FedEx   |                                | Received By: [Redacted]       |
| Airbill: 8731 0479 8092   |                                | (Date / Time)                 |
| Shipped to: EPA Region 3 Laboratory<br>Environmental Science Center<br>701 Mapes Road<br>Ft. Meade MD 20755<br>(410) 305-2606 |                                | 1 [Redacted] 6/10/2010 1730   |
|   |                                | 2 [Redacted] 6/11/10 12:15    |
|   | 3                              |                               |
|   | 4                              |                               |

| SAMPLE No. | MATRIX/<br>SAMPLER      | CONC/<br>TYPE | ANALYSIS/<br>TURNAROUND | TAG No./<br>PRESERVATIVE/ Bottles | STATION<br>LOCATION | SAMPLE COLLECT<br>DATE/TIME | FOR LAB USE ONLY<br>Sample Condition On Receipt |
|------------|-------------------------|---------------|-------------------------|-----------------------------------|---------------------|-----------------------------|---|
| R3348125   | Sediment/<br>[Redacted] | M/G           | TOC (14)                | 533 (1)                           | MC-SD-01            | S: 6/10/2010 16:00          | 1006011-25                                      |

|                             |  |   |   |   |
|-----------------------------|--|---|---|---|
| Shipment for Case Complete? | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt: 6.1°C        | Chain of Custody Seal Number:           |
| Analysis Key:               | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input type="checkbox"/> | Shipment Iced? <input type="checkbox"/> |
| TOC = Total Organic Carbon  |  |   |   |   |

TR Number: 3-242195023-061010-0001

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F2V51.047 Page 1 of 1



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



**Site Name:** Metro Container

**Project #:** DAS R33481

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-01    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SB-02  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 52600  |                      | 1070                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-02    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SB-03  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 26000  |                      | 1160                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-03      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-05    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010   |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon           | 74600  |                      | 2750                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



Site Name: Metro Container

Project #: DAS R33481

## Classical Chemistry Parameters

| Analyte              | Result     | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|----------------------|------------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| Lab ID:              | 1006011-04 |                      |                       |       |          |          |                |             |
| Station ID:          | MC-SD-06   |                      |                       |       |          |          |                |             |
| Sample Matrix:       | Sediment   |                      |                       |       |          |          |                |             |
| Collected:           | 06/07/2010 |                      |                       |       |          |          |                |             |
| Total Organic Carbon | 11600      |                      | 1340                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte              | Result     | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|----------------------|------------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| Lab ID:              | 1006011-05 |                      |                       |       |          |          |                |             |
| Station ID:          | MC-SD-07   |                      |                       |       |          |          |                |             |
| Sample Matrix:       | Sediment   |                      |                       |       |          |          |                |             |
| Collected:           | 06/07/2010 |                      |                       |       |          |          |                |             |
| Total Organic Carbon | 38300      |                      | 2050                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte              | Result     | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|----------------------|------------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| Lab ID:              | 1006011-06 |                      |                       |       |          |          |                |             |
| Station ID:          | MC-SD-10   |                      |                       |       |          |          |                |             |
| Sample Matrix:       | Sediment   |                      |                       |       |          |          |                |             |
| Collected:           | 06/07/2010 |                      |                       |       |          |          |                |             |
| Total Organic Carbon | 9200       |                      | 1430                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350

**Site Name: Metro Container****Project #: DAS R33481****Classical Chemistry Parameters**

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-07      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-11    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010   |        |                      |                       |       |          |          |                |             |
| <b>Total Organic Carbon</b>    | 20400  |                      | 1500                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

**Classical Chemistry Parameters**

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-08      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-12    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010   |        |                      |                       |       |          |          |                |             |
| <b>Total Organic Carbon</b>    | 9910   |                      | 1100                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

**Classical Chemistry Parameters**

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-09      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-13    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010   |        |                      |                       |       |          |          |                |             |
| <b>Total Organic Carbon</b>    | 13000  |                      | 1210                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center  
Office of Analytical Services and Quality Assurance  
701 Mapes Road  
Fort Meade, Maryland 20755-5350



**Site Name:** Metro Container

**Project #:** DAS R33481

## Classical Chemistry Parameters

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-10      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-15    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010   |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon           | 18100  | J                    | 1470                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-11      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-16    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010   |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon           | 18500  |                      | 1150                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-12    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SS-01  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 42900  |                      | 1430                  | mg/kg | 1        | 06/11/10 | 07/19/10 14:27 | SM 5310B    |



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**Site Name:** Metro Container

**Project #:** DAS R33481

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-13    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SS-02  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 63200  |                      | 1300                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-14    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SS-03  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/07/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 47800  |                      | 1520                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-15      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-02    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010   |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon           | 56400  |                      | 1820                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |





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**Site Name:** Metro Container

**Project #:** DAS R33481

## Classical Chemistry Parameters

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-16      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-03    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010   |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon           | 68700  |                      | 1430                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-17    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SB-04  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 184000 |                      | 2720                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-18    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SS-04  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010 |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon         | 89900  | C                    | 2310                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |



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**Site Name:** Metro Container

**Project #:** DAS R33481

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP#      |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|------------------|
| <b>Lab ID:</b> 1006011-19    |        |                      |                       |       |          |          |                |                  |
| <b>Station ID:</b> MC-FB-01  |        |                      |                       |       |          |          |                |                  |
| <b>Sample Matrix:</b> Water  |        |                      |                       |       |          |          |                |                  |
| <b>Collected:</b> 06/08/2010 |        |                      |                       |       |          |          |                |                  |
| Total Organic Carbon         | U      |                      | 3.0                   | mg/L  | 1        | 06/25/10 | 06/25/10 13:51 | SM 5310B/R3QA162 |

## Classical Chemistry Parameters

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP#      |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|------------------|
| <b>Lab ID:</b> 1006011-20    |        |                      |                       |       |          |          |                |                  |
| <b>Station ID:</b> MC-RB-01  |        |                      |                       |       |          |          |                |                  |
| <b>Sample Matrix:</b> Water  |        |                      |                       |       |          |          |                |                  |
| <b>Collected:</b> 06/08/2010 |        |                      |                       |       |          |          |                |                  |
| Total Organic Carbon         | U      |                      | 3.0                   | mg/L  | 1        | 06/25/10 | 06/25/10 13:51 | SM 5310B/R3QA162 |

## Classical Chemistry Parameters

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-21      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-17    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010   |        |                      |                       |       |          |          |                |             |
| Total Organic Carbon           | 26800  |                      | 1840                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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**Site Name: Metro Container****Project #: DAS R33481****Classical Chemistry Parameters**

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-22      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-18    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010   |        |                      |                       |       |          |          |                |             |
| <b>Total Organic Carbon</b>    | 39600  |                      | 2340                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |

**Classical Chemistry Parameters**

| Analyte                        | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|--------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-23      |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SD-19    |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Sediment |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010   |        |                      |                       |       |          |          |                |             |
| <b>Total Organic Carbon</b>    | 14700  |                      | 1450                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |

**Classical Chemistry Parameters**

| Analyte                      | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed       | Method/SOP# |
|------------------------------|--------|----------------------|-----------------------|-------|----------|----------|----------------|-------------|
| <b>Lab ID:</b> 1006011-24    |        |                      |                       |       |          |          |                |             |
| <b>Station ID:</b> MC-SS-05  |        |                      |                       |       |          |          |                |             |
| <b>Sample Matrix:</b> Soil   |        |                      |                       |       |          |          |                |             |
| <b>Collected:</b> 06/08/2010 |        |                      |                       |       |          |          |                |             |
| <b>Total Organic Carbon</b>  | 35300  |                      | 1210                  | mg/kg | 1        | 06/11/10 | 07/21/10 08:00 | SM 5310B    |



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Site Name: Metro Container

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Classical Chemistry Parameters

| Analyte | Result | Flags/<br>Qualifiers | Quantitation<br>Limit | Units | Dilution | Prepared | Analyzed | Method/SOP# |
|---------|--------|----------------------|-----------------------|-------|----------|----------|----------|-------------|
|---------|--------|----------------------|-----------------------|-------|----------|----------|----------|-------------|

Lab ID: 1006011-25

Station ID: MC-SD-01

Sample Matrix: Sediment

Collected: 06/10/2010

|                      |       |  |      |       |   |          |                |          |
|----------------------|-------|--|------|-------|---|----------|----------------|----------|
| Total Organic Carbon | 54200 |  | 1630 | mg/kg | 1 | 06/11/10 | 07/21/10 08:00 | SM 5310B |
|----------------------|-------|--|------|-------|---|----------|----------------|----------|



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Region 3 Environmental Science Center  
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Site Name: Metro Container

Project #: DAS R33481

## QC Data

## Classical Chemistry Parameters

| Analyte | Result | Quantitation<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|-----------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|-----------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

## Batch BG01902 - TOC Prep soil

|                                   |         |                           |       |                          |         |                          |        |    |    |   |
|-----------------------------------|---------|---------------------------|-------|--------------------------|---------|--------------------------|--------|----|----|---|
| <b>Duplicate (BG01902-DUP1)</b>   |         | <b>Source: 1006011-10</b> |       | Prepared: 06/11/10 12:00 |         | Analyzed: 07/19/10 14:27 |        |    |    |   |
| Total Organic Carbon              | 25526.3 | 1320                      | mg/kg |                          | 18117.6 |                          |        | 34 | 30 | A |
| <b>Matrix Spike (BG01902-MS1)</b> |         | <b>Source: 1006011-10</b> |       | Prepared: 07/19/10 14:03 |         | Analyzed: 07/19/10 14:27 |        |    |    |   |
| Total Organic Carbon              | 47354.5 | 1320                      | mg/kg | 21164                    | 18117.6 | 138                      | 58-169 |    |    |   |
| <b>Reference (BG01902-SRM1)</b>   |         |                           |       | Prepared: 07/19/10 14:03 |         | Analyzed: 07/19/10 14:27 |        |    |    |   |
| Total Organic Carbon              | 4552.53 | 243                       | mg/kg | 4780.0                   |         | 95                       | 79-120 |    |    |   |

## Batch BG02001 - TOC/DOC Prep water

|                            |      |     |      |                          |   |                          |            |                          |  |
|----------------------------|------|-----|------|--------------------------|---|--------------------------|------------|--------------------------|--|
| Blank (BG02001-BLK1)       |      |     |      | Prepared: 06/25/10 13:40 |   | Analyzed: 06/25/10 13:51 |            |                          |  |
| Total Organic Carbon       | U    | 3.0 | mg/L |                          |   |                          |            |                          |  |
| Duplicate (BG02001-DUP1)   |      |     |      | Source: 1006011-20       |   | Prepared: 06/25/10 13:40 |            | Analyzed: 06/25/10 13:51 |  |
| Total Organic Carbon       | U    | 3.0 | mg/L | U                        |   |                          |            | 30                       |  |
| Matrix Spike (BG02001-MS1) |      |     |      | Source: 1006011-20       |   | Prepared: 06/25/10 13:40 |            | Analyzed: 06/25/10 13:51 |  |
| Total Organic Carbon       | 17.0 | 3.0 | mg/L | 16.000                   | U | 106                      | 85-115     |                          |  |
| Reference (BG02001-SRM1)   |      |     |      | Prepared: 06/25/10 13:40 |   | Analyzed: 06/25/10 13:51 |            |                          |  |
| Total Organic Carbon       | 54.5 |     | mg/L | 53.000                   |   | 103                      | 83.3-115.3 |                          |  |

## Batch BG02201 - TOC Prep soil

|                                 |         |                           |       |                          |         |                          |  |   |    |  |
|---------------------------------|---------|---------------------------|-------|--------------------------|---------|--------------------------|--|---|----|--|
| <b>Duplicate (BG02201-DUP1)</b> |         | <b>Source: 1006011-18</b> |       | Prepared: 06/11/10 12:00 |         | Analyzed: 07/21/10 08:00 |  |   |    |  |
| Total Organic Carbon            | 88936.2 | 2660                      | mg/kg |                          | 89907.4 |                          |  | 1 | 30 |  |



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QC Data

Classical Chemistry Parameters

| Analyte | Result | Quantitation<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|-----------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|-----------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch BG02201 - TOC Prep soil

Matrix Spike (BG02201-MS1)

Source: 1006011-18

Prepared & Analyzed: 07/21/10 08:00

|                      |        |      |       |       |         |     |        |  |  |   |
|----------------------|--------|------|-------|-------|---------|-----|--------|--|--|---|
| Total Organic Carbon | 132404 | 2400 | mg/kg | 38462 | 89907.4 | 110 | 58-169 |  |  | J |
|----------------------|--------|------|-------|-------|---------|-----|--------|--|--|---|

Reference (BG02201-SRM1)

Prepared & Analyzed: 07/21/10 08:00

|                      |         |     |       |        |  |    |        |  |  |  |
|----------------------|---------|-----|-------|--------|--|----|--------|--|--|--|
| Total Organic Carbon | 4277.67 | 235 | mg/kg | 4780.0 |  | 89 | 79-120 |  |  |  |
|----------------------|---------|-----|-------|--------|--|----|--------|--|--|--|





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**Project #: DAS R33481**

## Notes and Definitions

- J The identification of the analyte is acceptable; the reported value is an estimate.
- C See narrative for comments and observations concerning this result.
- A Quality control value is outside acceptance limits.
- NR Not Reported
- RPD Relative Percent Difference
- U Analyte included in the analysis, but not detected at or above the quantitation limit.

**Quantitation Limit:** The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

**REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS:** Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.