Kevin Scott
Project Manager

September 27, 2010

Mr. Dwayne Harrington (211MS211)
U.S. Environmental Protection Agency Region 2
Raritan Depot
2890 Woodbridge Avenue
Edison, NJ 08837-3679

Subject: Final Trip Report for the Riverside Avenue Site
Riverside Avenue, Newark, Essex County, New Jersey
EPA Contract No. EP-S7-06-01
TDD No. 0178
Document Tracking No. 1042

Dear Mr. Harrington:

Tetra Tech EM Inc. (Tetra Tech) is submitting the final trip report for the Riverside Avenue Site located at 29-47 Riverside Avenue in Newark, New Jersey. The trip report summarizes the sampling activities conducted at the site between June 7 and 17, 2010 and the analytical results received. If you have any questions regarding the final report, please contact me at (302) 283-2248.

Sincerely,

Kevin Scott
Project Manager

Enclosure

cc: TDD File

238178

Tetra Tech, Inc.
7 Creek Parkway, Suite 700, Boothwyn, PA 19061
Tel 610.485.6410 | Fax 610.485.8587
www.tetratech.com

FINAL TRIP REPORT
RIVERSIDE AVENUE SITE
NEWARK, NJ

Prepared for

U.S. Environmental Protection Agency Region 2
USEPA Facilities Raritan Depot
Woodbridge, NJ 08837-3679

Prepared by

Tetra Tech EM Inc.
7 Creek Parkway, Suite 700
Boothwyn, Pennsylvania 19061

EPA Contract No. EP-S7-06-01

Technical Direction Document No. 0178
Document Tracking No. 1042

September 27, 2010

Prepared by

Kevin Scott
Project Manager

Approved by

for

Andy Mazzeo,
START QA Manager

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1.0 INTRODUCTION

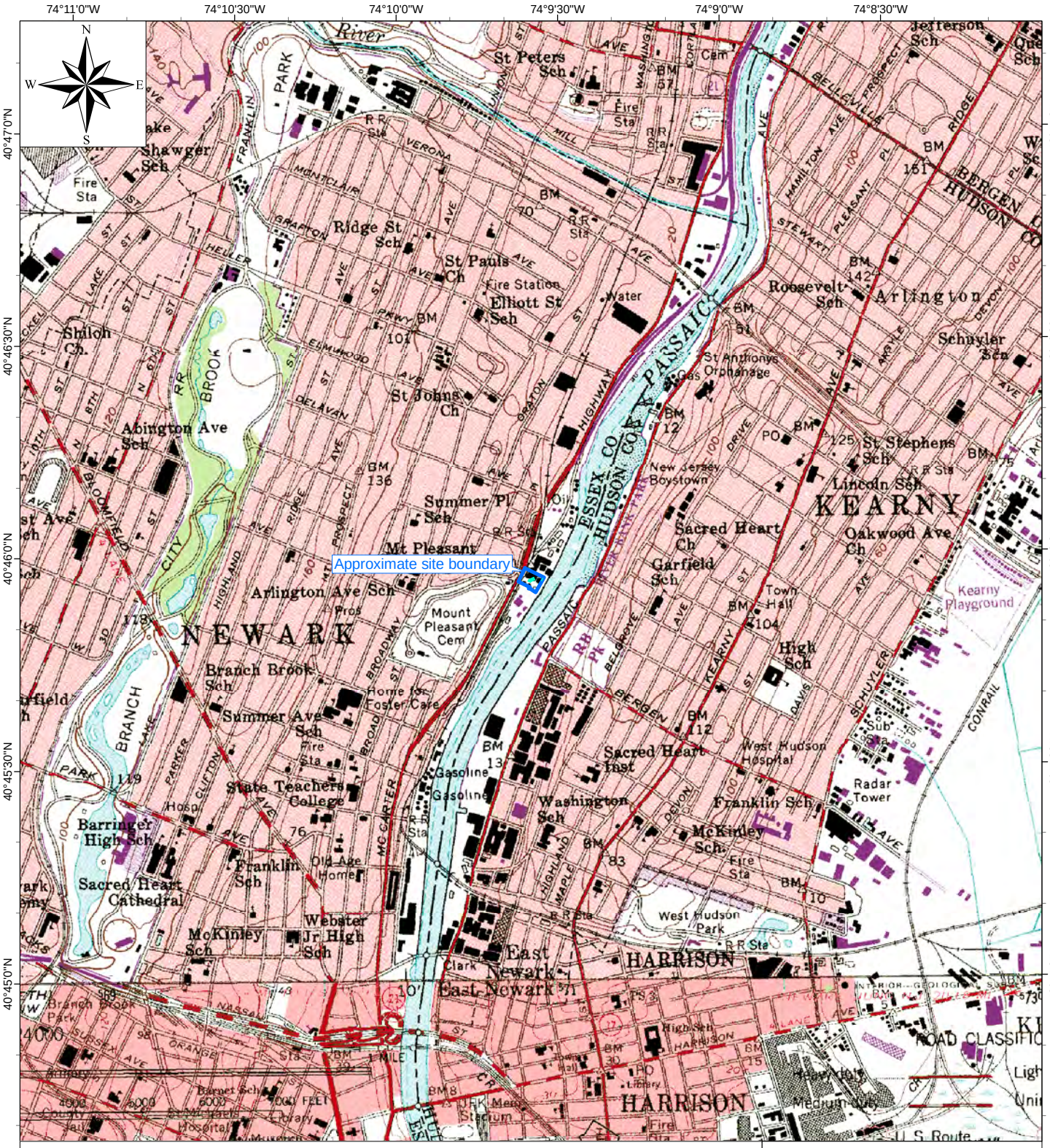
Under Eastern Area Superfund Technical Assessment and Response Team (START) Contract No. EP-S7-06-01, Technical Direction Document (TDD) No. 0178, U.S. Environmental Protection Agency (EPA) Region 2 tasked Tetra Tech EM Inc. (Tetra Tech) to conduct a site removal assessment at the Riverside Avenue Site located at Riverside Avenue, off of Route 21 in Newark, New Jersey. This trip report describes the sampling activities that were conducted to support the assessment and summarizes the analytical results. This trip report provides site background information in Section 2.0; presents the project objective in Section 3, the removal assessment activities in Section 4, and the analytical results in Section 5. All references cited in this plan are listed in Section 6.0. Appendix A provides a copy of the field logbook notes; Appendix B provides photographic documentation of site activities and the traffic reports; chain-of-custody reports are included in Appendix C and the analytical summary tables are provided in Appendix D. The ignitability/corrosivity test results and asbestos analytical results reports are provided as attachments.

2.0 BACKGROUND

This section describes the site location, presents a description and history of the property, and summarizes previous investigation activities conducted on and in the vicinity of the Riverside Avenue Site.

2.1 SITE LOCATION AND LAYOUT

The Riverside Avenue Site is located off of Route 21 in Newark, New Jersey, as shown in Figure 1, Site Location Map. The geographic coordinates for the approximate center of the site are 40.4556 degrees north latitude and 74.0935 degrees west longitude. The site is currently owned by the City of Newark, NJ and is located at 29-47 Riverside Avenue, in a former industrial area adjacent to the Passaic River. The approximately 1.48 acre site is bordered to the east by the Passaic River, to the west by the N/F Erie-Lackawanna Railroad and McCarter Highway, NJ Route 21, and to the north and south by private buildings. The site is currently not in use and has been inactive since approximately 1993. Two multi-floored structures, identified as Building #7 (three-story) and Building #12 (five-story) are currently located on the site. Building #7 is located in the southern portion of the site, adjacent to the Passaic River. A current aerial view of the site can be seen on Figure 2, Site Layout Map.



Source: Modified from USGS 7.5-Minute Series Topographic Quadrangles: Elizabeth, New Jersey, 1967, Photorevised 1981; Orange, New Jersey, 1955, Photorevised 1981

0 0.25 0.5 Miles

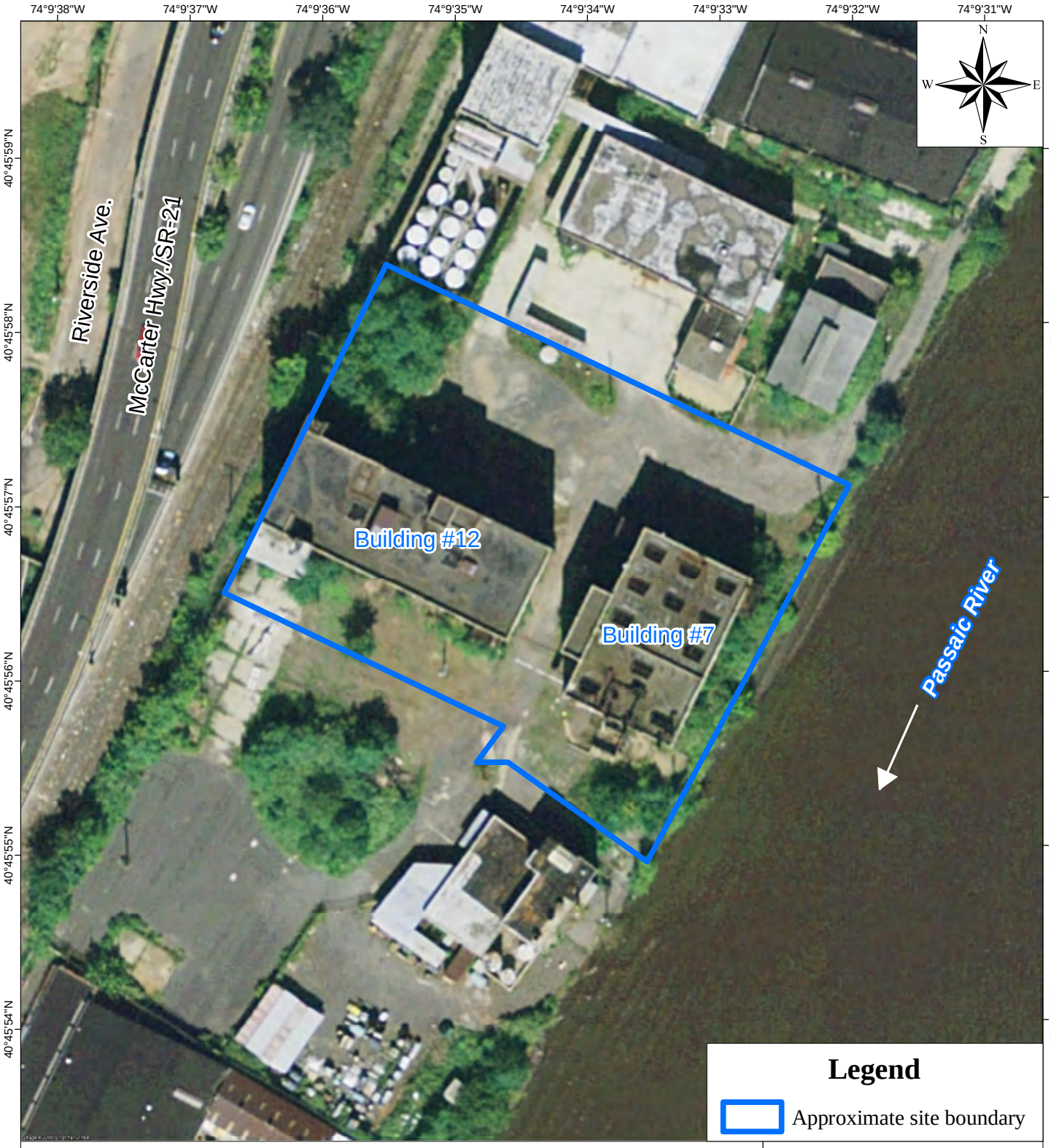
Quadrangle Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 1
Site Location Map

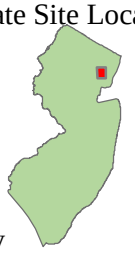
Project number 9004L100178 EPA Contract No. EP-S7-06-01	Map created on April 14, 2010 by D. Call, Tetra Tech EM Inc.	TETRA TECH



Source: Modified from DigitalGlobe aerial photography, September 19, 2009.

0 50 100 Feet

Approximate Site Location =



New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 2
Site Layout Map

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on June 25, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH

2.2 SITE HISTORY

The site has been used for industrial activities since 1909. From 1909 through 1983, various operators utilized the property for the manufacture of paints and varnishes. From around 1931 through 1973, the property was a small part of a much larger facility owned and operated by Pittsburgh Paint & Glass Company. The property has been occupied by various operators from 1973 through 1993, when the current owner, the City of Newark obtained the property through foreclosure (Weston 2009).

2.3 PREVIOUS INVESTIGATIONS

In 2009, Weston Solutions was retained by the City of Newark Department of Economic Development and Housing to perform a preliminary assessment of the site. The preliminary assessment was completed to identify existing and/or potential areas of concern (AOC). Weston identified 11 AOCs during the preliminary assessment. After completion of the preliminary assessment, PMK Group, Inc. (Birdsall 2009) was retained by the Brick City Development Corporation to conduct an environmental site investigation (SI) for the property (Birdsall 2009). The SI was completed to address the conclusions and recommendations presented in the preliminary assessment report and to address issues regarding the planned redevelopment of the property, including the demolition of the two existing structures and site improvements including possibly the construction of a new facility. Given the site history, it was assumed that the SI would reveal environmental impacts above New Jersey Department of Environmental Protection (NJDEP) criteria; therefore, the SI strategy was to provide a “presence/absence” determination of environmental impacts expecting that an extensive remedial investigation would be required to delineate and define site conditions. Seven of these 11 AOCs identified in the preliminary assessment were investigated as part of the SI. The seven AOCs identified in the preliminary assessment and subsequently investigated in the SI are shown in Table 1 below.

TABLE 1
AREAS OF CONCERN SUMMARY

AOC Identifier	Description
AOC A-1	Above ground storage tanks and associated piping
AOC A-2	Underground storage tanks and associated piping
AOC A-3	Piping, above ground and below ground pumping stations, sumps and pits
AOC B-1	Storage pads; including drum and waste storage
AOC C-1	Floor drains, trenches and piping sumps
AOC D-1	Waste piles
AOC D-2	Open pipe discharges
AOC E-1	Electrical transformers and capacitors
AOC E-1A	Discolored or spill areas
AOC F-1	Loading or transfer areas
AOC G-1	Freight elevators

Notes: Shaded rows indicate AOCs that were investigated during SI.
AOC = Area of concern.

The SI field activities were completed between August and October 2009 and included a geophysical survey, collection of soil and groundwater samples and samples of basement water located within Building #7. The results of the geophysical survey indicated nine possible underground storage tanks (UST) located east of Building #12. Analytical results from soil samples collected from areas surrounding the identified AOCs indicated exceedances of NJDEP criteria for total petroleum hydrocarbons, volatile organic compounds (VOC), semivolatile organic compounds (SVOC), metals and polychlorinated biphenyls (PCBs). Two groundwater samples were collected from the site, one directly downgradient of AOC A-2 (location of USTs east of Building #12) and one collected west of Building #7, downgradient to AOC F-1 (the loading dock). Fingerprint analysis of the groundwater sample collected downgradient of AOC A-2 indicated the presence of mineral spirits and fuel oil No. 4. The groundwater sample collected downgradient of AOC F-1 indicated the presence of VOC, SVOC and metal exceedances of NJDEP groundwater quality criteria (GQC) for Class II-A aquifers. The basement water sampling results revealed VOCs, SVOCs, PCBs and metals exceeding the applicable NJDEP GQC for Class II-A aquifers.

PMK also investigated ten USTs identified east of Building #12. Nine of the tanks contained either liquid or sludge and one tank contained soil. Samples collected from the USTs were analyzed for priority pollutants (PP +40). Results showed benzene (up to 169 micrograms per liter [ug/L]), ethylbenzene (up to 12,100 ug/L), toluene (up to 77,000 ug/L), total xylene (up to 25,700 ug/L), and 2-butanone (up to 17,000 ug/L).

On October 29, 2009, NJDEP responded to an oil spill that stretched for a ¼-mile in the Passaic River. The source of the spill was identified at low tide when a pipe leaking black, viscous oil

was exposed. The pipe was traced back to two above ground storage tanks located on the site in the basement of Building #12. The tanks were connected directly to a sewer line that eventually discharged into the Passaic River. NJDEP requested assistance from EPA to respond to the spill. The EPA Emergency and Rapid Response (ERRS) contractor secured the tanks and sewer line in the basement of Building #12 to prevent further discharge. Field screening results indicated that the oil was No. 4 heating oil. An estimated 500 gallons of No. 4 heating oil was spilled into the Passaic River during this incident.

Tetra Tech performed a site visit at the Riverside Avenue Site on April 7, 2010. Tetra Tech was accompanied by Dwayne Harrington, EPA Federal On-Scene Coordinator (OSC). The purpose of the visit was to document current site conditions and identify potential sampling areas. The visit confirmed the existence of several AOCs located within Buildings # 7 and #12 that were identified in the preliminary assessment. Most of the areas within the two buildings were accessible; however, some of the stairwells within the buildings were in various states of disrepair and neglect and were deemed inaccessible. These areas were avoided, pending assessors' ability to obtain alternative, safe means of mechanical access for any future assessments.

3.0 OBJECTIVE

The objective of this sampling event was to determine if hazardous substances are present in the following areas: (1) storage or process tanks located on the second and third floors of Building # 7; (2) drums found on the site; (3) waters and possibly residual solids that have collected in the basements of both Building #7 and Building # 12; (4) dry red and blue-colored pigment materials found on the fourth and fifth floors of Building #12 and; (5) pipe insulation observed in the on-site buildings. To address this objective, Tetra Tech collected samples from the following areas: (1) storage tanks, drums, carboys, and 5-gallon containers that contained product or waste; (2) water and sediment/sludge from the subbasement and basement of Building #7 and Building #12; (3) pigment material on the floor in Building #12, and (4) pipe insulation observed inside or outside both buildings. Additionally, Tetra Tech collected a composite sample of the tar/resin-like material that was observed leaching from the bank of the Passaic River and at the base of the northeast wall of Building #7 as well as a composite sample of the tar/resin-like material that was observed in the process lines and piping associated with the storage and process tanks. The determination to collect the tar/resin-like samples was made by the OSCs during the removal assessment activities and these samples were not in the original draft Sampling and Analysis Plan (SAP) submitted by Tetra Tech.

4.0 REMOVAL ASSESSMENT ACTIVITIES

This section describes the scope of work; methods and procedures for sample collection, sample handling, and delivery to the approved laboratory; and equipment decontamination procedures.

4.1 SCOPE OF WORK

Tetra Tech completed the following tasks during this removal assessment:

- Inventoried and collected liquid and/or residual solid samples from tanks located on the second and third floors of Building #7.
- Collected aqueous and sediment samples from the basements of Buildings #7 and #12 where pooled water has accumulated.
- Inventoried and sampled drums and containers located on site.
- Collected samples of the red and blue-colored dry pigment materials located on the floor of Building #12.
- Obtained 12 bulk asbestos samples from the pipe insulation located inside and outside of site buildings.
- Collected samples of the tar/resin-like materials leaching from the west bank of the Passaic River and observed along the base of the north wall of Building #7.
- Submitted trip and field blanks for quality assurance (QA) and quality control (QC) purposes.
- Photo documented sampling activities and sampling locations.
- Packaged and shipped samples to laboratories procured through the EPA contract laboratory program (CLP) for target compound list (TCL) and Toxicity Characteristics Leaching Procedure (TCLP) VOCs, SVOCs, pesticides, and PCBs and target analyte list (TAL) and TCLP metals and cyanide.

4.2 MEDIA SAMPLE COLLECTION PROCEDURES

This section describes the general procedures that were implemented during the collection of the tank, drum, basement water and sediment, and asbestos samples discussed in this report. The field work was implemented in accordance with the requirements of a site-specific health and safety plan (HASP) prepared to comply with the requirements of Code of Federal Regulations (CFR) 1910.120 and the Tetra Tech draft sampling and analysis plan (SAP) for the site (Tetra Tech 2010). Tetra Tech documented site activities in accordance with Tetra Tech Standard Operating Procedure (SOP) No. 024, “Recording of Notes in Field Logbook” (Tetra Tech

2008a). A copy of field log book notes is provided in Appendix A. Photographs taken during the field activities are provided in Appendix B.

4.2.1 Storage/Process Tank Inventory and Sampling Procedures

Prior to sampling, Tetra Tech inspected each storage/process tank to determine if liquid or sludge was present in the tank and then numbered each tank and recorded this information on a field data sheet. This information is provided in Table 2. Scaffolding was rented from a local vendor and erected next to the tanks to facilitate the inspection and sample collection activities. After inspecting the tanks, Tetra Tech determined that fewer samples than originally proposed in the SAP were necessary to adequately assess the contents of the tanks. Tetra Tech also determined that the proposed field hazard characterization testing on these samples was not necessary.

Liquid and sludge inside the storage/process tanks located on the third floor of Building #7 was collected by tying a string to a dedicated sample collection container and lowering the container into the tank being sampled. Initial attempts to collect samples from the tanks using a Sludge Judge® and a fabricated dipper proved unsuccessful. Samples collected from the storage/process tanks were then transferred into clean sample jars and labeled as detailed in the site-specific SAP.

4.2.2 Drum, Carboy, and Container Inventory and Sampling Procedures

Prior to sampling, Tetra Tech inspected each drum, carboy, and 5 gallon plastic or metal container to determine if liquid, sludge, or solid waste was present in the container and then numbered each waste containing container according the sample identification format specified in the draft SAP. This information was recorded on a field data sheet and is presented in Table 3. After completing the inspection, Tetra Tech personnel determined that fewer samples would need to be collected from the drums, carboys, and containers than previously anticipated and that the need to consolidate samples as well as perform field hazard characterization testing on these samples was not necessary.

Liquid, sludge, or solid wastes present in the drums and containers were collected using dedicated drum thieves, coliwasa samplers, or plastic scoops, depending on the matrix and consistency of the material in the container. Drum and container samples were collected in accordance with Tetra Tech SOP No. 008, “Containerized Liquid, Sludge, or Slurry

TABLE 2
DRUM AND CONTAINER INVENTORY SUMMARY

Container	Type	Top	Condition	% Container Full	Physical State	Bldg #	Floor #	Room	Sample Collected	Sample ID
5-GAL	metal	spout	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
30-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
30-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bung	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	95%	Solid	12	1	west	Yes	B12-DS-01
55-GAL	Steel 17H	Bolt ring	Fair	95%	Solid	12	1	west	Yes	B12-DS-02
5-GAL	metal	spout	Poor	40%	Liquid	12	1	west	Yes	B12-PS-01
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
5-GAL	metal	spout	Fair	Empty	NA	12	1	west	No	NA
5-GAL	metal	spout	Fair	Empty	NA	12	1	west	No	NA
30-GAL	Poly	Latch ring	Poor	65%	Solid	7	2	North	Yes	B7-CS-03
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	North	No	NA
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	North	No	NA
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	North	No	NA
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	North	No	NA
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	South	No	NA
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	Stairwell	No	NA
55-GAL	Steel 17H	Bolt ring	Poor	50%	Sludge	7	1	North	Yes	B7-DS-02
55-GAL	Steel 17H	Bolt ring	Poor	50%	Solid	7	1	South	Yes	B7-DS-01
5-GAL	Poly	spout	Fair	40%	Liquid	7	1	Stairwell	Yes	B7-CS-02
5-GAL	Fiber	Latch ring	Poor	70%	Solid	7	1	Stairwell	Yes	B7-PS-03
5-GAL	metal	spout	Poor	Empty	NA	7	1	Stairwell	No	NA
5-GAL	Poly	lid	Poor	40%	Liquid	7	1	Freight Elevator	Yes	B7-PS-01

TABLE 2
DRUM AND CONTAINER INVENTORY SUMMARY

Container	Type	Top	Condition	% Container Full	Physical State	Bldg #	Floor #	Room	Sample Collected	Sample ID
5-GAL	Poly	spout	Fair	55%	Liquid	7	1	North	Yes	B7-PS-02
5-GAL	metal	spout	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
30-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
30-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bung	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17H	Bolt ring	Fair	95%	Solid	12	1	west	Yes	B12-DS-01
55-GAL	Steel 17H	Bolt ring	Fair	95%	Solid	12	1	west	Yes	B12-DS-02
5-GAL	metal	spout	Poor	40%	Liquid	12	1	west	Yes	B12-PS-01
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
55-GAL	Steel 17E	Bolt ring	Fair	Empty	NA	12	1	west	No	NA
5-GAL	metal	spout	Fair	Empty	NA	12	1	west	No	NA
5-GAL	metal	spout	Fair	Empty	NA	12	1	west	No	NA
30-GAL	Poly	Latch ring	Poor	65%	Solid	7	2	North	Yes	B7-CS-03
55-GAL	Steel 17H	Bolt ring	Poor	Empty	NA	7	1	North	No	NA

Notes: B7 = Building #7
B12 = Building #12
CS = Container sample
DS = Drum sample
Gal = gallon
NA = Not applicable
PS = pail sample
17-H = open top drum
17-E = closed top drum

Sampling." (Tetra Tech 2000a). At each of the sampling locations, Tetra Tech filled two certified-clean, 4-ounce clear wide-mouth (CWM) glass jars with Teflon lined septa lids for TCL and TCLP VOCs and six certified-clean 8-ounce CWM glass jars with Teflon lined lids for TAL total metals and cyanide, aroclors, TCLP SVOC, TCLP metals, TCLP pesticides and herbicides, and ignitibility and corrosivity analyses.

4.2.3 Buildings # 7 and # 12 Basement Sampling Procedures

Tetra Tech collected aqueous samples of the pooled water in the subbasement and basement of Buildings #7 and #12, respectively. Tetra Tech collected the aqueous sample in the basement of Building #12 by submerging the bottleware below the surface of the water in accordance with SOP No. 009, "Surface Water Sampling" (Tetra Tech 2009a). Tetra Tech collected the aqueous sample in the subbasement of Building #7 using a Sludge Judge® and then transferred the sample into the appropriate sample bottleware. Tetra Tech also collected sediment samples at each of the same locations where aqueous samples were collected. Sediment samples were collected in accordance with Tetra Tech SOP No. 006 "Sludge and Sediment Sampling" (Tetra Tech 2000b). Initial attempts to collect sediment samples from the subbasement of Building #7 using a Sludge Judge® proved unsuccessful, so Tetra Tech personnel fabricated a dipper using an aluminum pole and dedicated sample collection container to obtain the samples. Samples collected from the basement sump in Building #12 and subbasement of Building #7 were then transferred into clean sample jars and labeled according to the draft SAP.

4.2.4 Sampling of Red and Blue-Colored Pigments Located in Building #12

Tetra Tech collected samples of the red and blue-colored pigments observed on the floors of Building #12. Approximately ½ inch of dry pigment material had accumulated immediately beneath the openings of two funnel tanks that protruded from the ceiling of the fourth floor of Building #12. The samples were collected using dedicated, disposal plastic scoops. Pigment material was scraped into a pile with the plastic scoop and then scooped and transferred directly into the appropriate sample containers. The pigment material was mixed with debris and what appeared to be bird droppings and a pure sample of the pigment material could not be obtained. Nearly all of the blue and red pigment that was present was placed into sample containers and only residue remained at the site after sample collection.

TABLE 3
STORAGE/PROCESS TANK INVENTORY SUMMARY

Tank Number	Partitioned (Y/N)	Floor (2 or 3)	Room (N or S)	Tank Type (rectangular/Conical)	Height (ft.)	Length (ft.)	Width (ft.)	Radius (ft.)	tank capacity (cubic ft)	tank capacity (gallons)	Partitioned Tanks		Product level in tank (inches)	est. product volume (gallons)
											est. tank capacity of each partition (cubic ft)	est. tank capacity in each partition (gallons)		
1	No	3	North	Rectangular	8	6	4.5	NA	216	1616			2	
2	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	2	
3	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	2	
4	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	2	
5	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
6	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
7	No	3	North	Rectangular	10.5	6	4	NA	252	1885			Empty	
8	No	3	North	Rectangular	10.5	6	4	NA	252	1885			Empty	
9	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
10	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
11	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
12	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
13	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
14	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	12"-20"	100
15	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
16	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
17	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
18	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	2"	
19	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
20	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
21	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
22	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
23	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
24	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
25	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
26	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
27	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
28	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
29	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
30	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
31	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
32	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
33	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
34	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
35	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
36	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
37	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
38	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
39	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	

TABLE 3
STORAGE/PROCESS TANK INVENTORY SUMMARY

Tank Number	Partitioned (Y/N)	Floor (2 or 3)	Room (N or S)	Tank Type (rectangular/Conical)	Height (ft.)	Length (ft.)	Width (ft.)	Radius (ft.)	tank capacity (cubic ft)	tank capacity (gallons)	Partitioned Tanks		Product level in tank (inches)	est. product volume (gallons)
											est. tank capacity of each partition (cubic ft)	est. tank capacity in each partition (gallons)		
40	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
41	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
42	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
43	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
44	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
45	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
46	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
47	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
48	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
49	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
50	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
51	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	12	
52	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	36	350 (A) / 270 (B)
53	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
54	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
55	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
56	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
57	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
58	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
59	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
60	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
61	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
62	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
63	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
64	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
65	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
66	Yes	3	North	Rectangular	10.5	6	4	NA	252	1885	126	943	Empty	
67	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
68	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
69	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
70	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
71	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
72	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
73	No	3	North	Rectangular	10.5	6	4.5	NA	284	2121			Empty	
1	No	3	South	Conical	7	NA	NA	3.25	232	1738			Empty	
2	No	3	South	Conical	7	NA	NA	3.25	232	1738			Empty	
3	No	3	South	Conical	7	NA	NA	2	88	658			Empty	
4	No	3	South	Conical	4	NA	NA	2.5	79	588			Empty	
5	No	3	South	Conical	4	NA	NA	2.5	79	588			12	150

TABLE 3
STORAGE/PROCESS TANK INVENTORY SUMMARY

Tank Number	Partitioned (Y/N)	Floor (2 or 3)	Room (N or S)	Tank Type (rectangular/Conical)	Height (ft.)	Length (ft.)	Width (ft.)	Radius (ft.)	tank capacity (cubic ft)	tank capacity (gallons)	Partitioned Tanks		Product level in tank (inches)	est. product volume (gallons)
											est. tank capacity of each partition (cubic ft)	est. tank capacity in each partition (gallons)		
6	No	3	South	Conical	7	NA	NA	2	88	658			Empty	
7	No	3	South	Conical	7	NA	NA	3.25	232	1738			Empty	
8	No	3	South	Conical	7	NA	NA	3.25	232	1738			Empty	
9	No	3	South	Rectangular	8	6	4.5	NA	216	1616			6" - 12"	200
10	No	3	South	Rectangular	8	6	4.5	NA	216	1616			6" - 12"	200
11	No	3	South	Rectangular	6.5	7	4.5	NA	205	1532			tarp/fabric	
12	No	3	South	Conical	7	NA	NA	3.25	232	1738			Empty	
13	No	3	South	Conical	7	NA	NA	2	88	658			Empty	
14	No	3	South	Conical	4	NA	NA	2.5	79	588			Empty	
15	No	3	South	Conical	4	NA	NA	2.5	79	588			Empty	
16	No	3	South	Conical	7	NA	NA	2	88	658			Empty	
17	No	3	South	Rectangular	7.5	8	4.5	NA	270	2020			3/4 full	1500
18	No	3	South	Rectangular	7.5	8	4.5	NA	270	2020			Full	2000
19	No	3	South	Rectangular	7.5	8	4.5	NA	270	2020			Full	2000
20	No	3	South	Rectangular	7.5	8	4.5	NA	270	2020			Empty	
1	No	2	South	Rectangular	8	8.5	7	NA	476	3561			Empty	
2	No	2	South	Rectangular	8	8.5	7	NA	476	3561			Empty	
3	No	2	South	Rectangular	8	8.5	7	NA	476	3561			Empty	
4	No	2	South	Rectangular	8	8.5	7	NA	476	3561			Empty	
5	No	2	South	Rectangular	8	8.5	7	NA	476	3561			Empty	
6	No	2	South	Rectangular	8	6	4	NA	192	1436			Empty	
7	No	2	South	Rectangular	8	6	4	NA	192	1436			Empty	
8	No	2	South	Rectangular	8	6	4	NA	192	1436			Empty	
9	No	2	South	Rectangular	8	6	4	NA	192	1436			Empty	
10	No	2	South	Rectangular	8	6	4	NA	192	1436			Empty	

4.2.5 Asbestos-Form and Potential Asbestos Containing Material Sampling

Tetra Tech collected samples of pipe insulation contained in both Buildings # 7 and # 12. Tetra Tech collected bulk samples through a glove bag, in accordance with Code of Federal Regulations Title 40, Part 763.86 "Asbestos Sampling" (EPA 1987). The sample points on the insulation were wetted with amended water and a section no greater than 3 square inches was removed from the sample point and placed in resealable plastic bags. The samples were removed from the glove bag by placing it in the glove, pulling the glove inside out, taping the glove and cutting it away from the glove bag with scissors. The glove bag was wrapped and secured to the pipe with tape around the sampling point. Disposable sampling equipment was utilized at each sampling point in order to minimize the spread of asbestos fibers and cross-contamination.

4.3 SAMPLING SUMMARY

This section describes the quantities and analyses of samples collected from the tanks, drums, basement water and sediment, and asbestos discussed in Section 4.2 above.

4.3.1 Storage/Process Tank Inventory and Sampling

Tetra Tech collected a total of 10 samples from the tanks of the third floor of Building #7, including one duplicate sample. Tetra Tech also collected one sample from the tank No. 9 on the second floor of Building #7 and a composite sample of the resin-like material that was present in the tank process lines and pipes. A sampling summary is presented in Table 4. Photographs of the tanks and Tetra Tech sampling activities are provided in the Appendix B. Figures 3 and 4 show the locations of the tank samples on the third and second floor, respectively. At each of the sampling locations, Tetra Tech filled two certified-clean, 4-ounce CWM glass jars with Teflon lined septa lids for TCL VOCs and TCLP VOCs and six certified-clean 8-ounce CWM glass jars with Teflon lined lids for TAL metals and cyanide, aroclors, TCLP SVOC, TCLP metals, TCLP pesticides and herbicides, and ignitibility and corrosivity analyses.

TABLE 4
SAMPLE SUMMARY

Sample ID	Lab ID	Matrix	Sample Date	Sample Time	Analysis Name	Laboratory	Date Shipped	Sample Type	Comments			
									Container type	Bldg. #	Floor	Location
RAS-TB-01	B0033	Water	6/9/2010	8:07:00 AM	CLP TCL Volatiles	A4 Scientific	6/10/2010	QC sample - trip blank				
RAS-FB-01	B0031	Water	6/9/2010	8:12:00 AM	CLP TCL Volatiles CLP TCL Semivolatiles and Pesticides/PCBs	A4 Scientific	6/10/2010	QC sample - field blank				
BUILDING #7 TANK SAMPLES												
B7-TM-53A	B0029 † MB0029 B7-TM-53A	Waste	6/8/2010	11:00:00 AM	CLP TCL Volatiles PCBs (aroclors) TCLP Volatiles, Semivolatiles, Pesticides and Herbicides CLP TAL Total Metals and Cyanide TCLP Metals Corrosivity (pH) Ignitability	A4 Scientific Bonner Analytical Testing Company EMSL	6/10/2010 6/11/2010 6/14/2010	Field Sample	indoor AST	7	3	N
B7-TM-19	B0025 † MB0025 B7-TM-19	Waste	6/8/2010	12:45:00 PM	CLP TCL Volatiles PCBs (aroclors) TCLP Volatiles, Semivolatiles, Pesticides and Herbicides CLP TAL Total Metals and Cyanide TCLP Metals Corrosivity (pH) Ignitability	A4 Scientific Bonner Analytical Testing Company EMSL	6/10/2010 6/11/2010 6/14/2010	Field Sample	indoor AST	7	3	S
B7-TM-18	B0024 † MB0024 B7-TM-18	Waste	6/8/2010	12:30:00 PM	CLP TCL Volatiles PCBs(AROCLORS) TCLP Volatiles, Semivolatiles, Pesticides and Herbicides CLP TAL Total Metals and Cyanide TCLP Metals Corrosivity (pH) Ignitability	A4 Scientific Bonner Analytical Testing Company EMSL	6/10/2010 6/11/2010 6/14/2010	Field Sample	indoor AST	7	3	S
B7-TM-17	B0023 † MB0023 B7-TM-17	Waste	6/8/2010	12:15:00 PM	CLP TCL Volatiles PCBs(AROCLORS) TCLP Volatiles, Semivolatiles, Pesticides and Herbicides CLP TAL Total Metals and Cyanide TCLP Metals Corrosivity (pH), ignitability	A4 Scientific Bonner Analytical Testing Company EMSL	6/10/2010 6/11/2010 6/14/2010	Field Sample	indoor AST	7	3	S
B7-TM-14B	B0022 MB0022 B7-TM-14B	Waste	6/8/2010	10:05:00 AM	CLP TCL Volatiles PCBs (aroclors) TCLP Volatiles, Semivolatiles, Pesticides and Herbicides CLP TAL Total Metals and Cyanide TCLP Metals Corrosivity (pH) Ignitability	A4 Scientific Bonner Analytical Testing Company EMSL	6/10/2010 6/11/2010 6/14/2010	Field Sample	indoor AST	7	3	N
B7-TM-14A	B0021 MB0021 B7-TM-14A	Waste	6/8/2010	9:50:00 AM	CLP TCL Volatiles PCBs (aroclors) TCLP Volatiles, Semivolatiles, Pesticides and Herbicides CLP TAL Total Metals and Cyanide TCLP Metals Corrosivity (pH) Ignitability	A4 Scientific Bonner Analytical Testing Company EMSL	6/10/2010 6/11/2010 6/14/2010	Field Sample	indoor AST	7	3	N

TABLE 4
SAMPLE SUMMARY

Sample ID	Lab ID	Matrix	Sample Date	Sample Time	Analysis Name	Laboratory	Date Shipped	Sample Type	Comments			
									Container type	Bldg. #	Floor	Location
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0020				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0020				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-TM-10	B7-TM-10	Waste	6/8/2010	1:30:00 PM	Ignitability	EMSL	6/14/2010	Dupl. of B7-TM-09	indoor AST	7	3	S
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0019				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0019				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-TM-09-2S	B7-TM-09-2S	Waste	6/8/2010	2:30:00 PM	Ignitability	EMSL	6/14/2010	Field Sample	indoor AST	7	2	S
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0018				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0018				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-TM-09	B7-TM-09	Waste	6/8/2010	1:34:00 PM	Ignitability	EMSL	6/14/2010	Dupl. of B7-TM-10	indoor AST	7	3	S
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0017 †				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0017				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-TM-05	B7-TM-05	Waste	6/8/2010	1:15:00 PM	Ignitability	EMSL	6/14/2010	Field Sample	indoor AST	7	3	S
BUILDING #7 DRUM,CARBOY,CONTAINER SAMPLES												
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0040				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
B7-DS-02	MB0040	Waste	6/9/2010	2:09:00 PM	TCLP Metals	Bonner Analytical Testing Company	6/11/2010	Field Sample	Drum	7	1	N
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0035				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0035				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-DS-01	B7-DS-01	Waste	6/9/2010	9:40:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	Drum	7	1	S

TABLE 4
SAMPLE SUMMARY

Sample ID	Lab ID	Matrix	Sample Date	Sample Time	Analysis Name	Laboratory	Date Shipped	Sample Type	Comments			
									Container type	Bldg. #	Floor	Location
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0034				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0034				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-CS-03	B7-CS-03	Waste	6/9/2010	9:56:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	30-gallon carboy drum (open top)	7	2	N
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0043†				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0043 ††				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
	B7-CS-02		6/9/2010	11:27:00 AM	Ignitability	EMSL	6/14/2010					
B7-CS-02	MB0045	Waste	6/17/2010	10:00:00 AM	TCLP Metals and Hg	Bonner Analytical Testing Company	6/17/2010	Field Sample	5-gallon plastic container	7	1	stairwell
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0042				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0042				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)		6/14/2010					
B7-PS-03	B7-PS-03	Waste	6/9/2010	11:54:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	5-gallon cardboard container	7	1	stairwell
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0036 †				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0036				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-PS-02	B7-PS-02	Waste	6/9/2010	10:33:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	5-gallon plastic container	7	1	N
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0037 †				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0037				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-PS-01	B7-PS-01	Waste	6/9/2010	11:04:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	5-gallon plastic container	7	1	Frt. Elev.
					CLP TCL Volatiles							
B7-TAR-01	B0016	Waste	6/8/2010	2:45:00 PM	CLP TCL Semivolatiles and Pesticides/PCBs	A4 Scientific	6/10/2010	Field Sample	NA	7	1	N
					CLP TCL Volatiles							
					TCLP Volatiles, Semivolatiles, Pesticides and Herbicides							
	B0044				PCBs (aroclors)	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0044				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-P-01	B7-P-01	Waste	6/9/2010	3:15:00 PM	Ignitability	EMSL	6/14/2010	Field Sample	pipe composite	7		

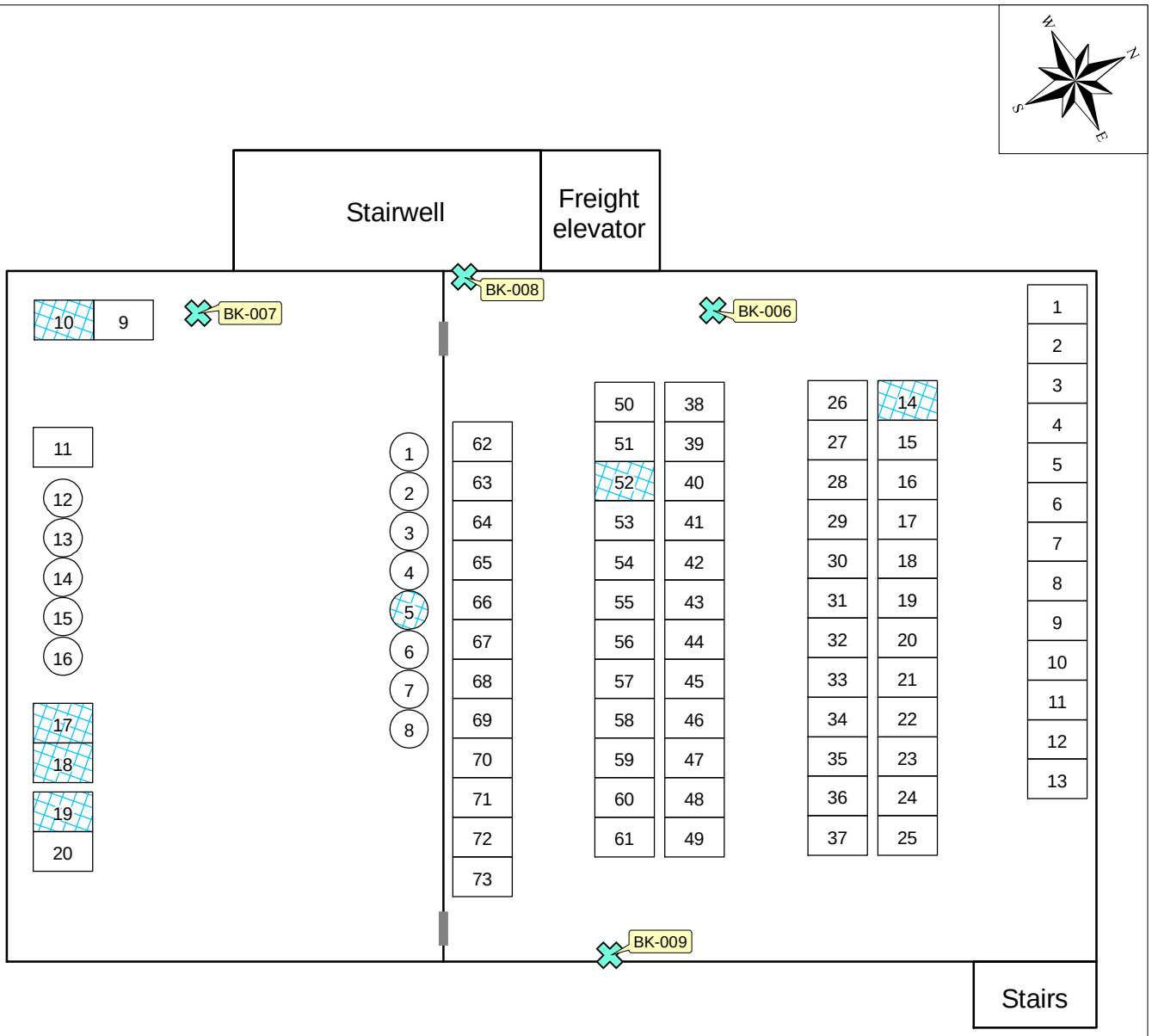
TABLE 4
SAMPLE SUMMARY

Sample ID	Lab ID	Matrix	Sample Date	Sample Time	Analysis Name	Laboratory	Date Shipped	Sample Type	Comments			
									Container type	Bldg. #	Floor	Location
BUILDING #12 DRUM AND CONTAINER SAMPLES												
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0007 †				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0007				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B12-PS-01	B12-PS-01	Oil(High only)	6/8/2010	9:20:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	5-gallon metal can	12	1	
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0002				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0002				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B12-DS-02	B12-DS-02	Waste	6/8/2010	9:15:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	Drum	12	1	
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0008				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0008				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B12-DS-01	B12-DS-01	Waste	6/8/2010	9:15:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	Drum	12	1	
PIGMENT MATERIAL SAMPLES												
					CLP TCL Volatiles							
	B0006				CLP TCL Semivolatiles and Pesticides/PCBs	A4 Scientific	6/10/2010					
	MB0006				CLP TAL Total Metals and Cyanide	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B12-PM-02	B12-PM-02	Waste	6/8/2010	10:10:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	pigment material	12	4	
					CLP TCL Volatiles							
	B0005				CLP TCL Semivolatiles and Pesticides/PCBs	A4 Scientific	6/10/2010					
	MB0005				CLP TAL Total Metals and Cyanide	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B12-PM-01	B12-PM-01	Waste	6/8/2010	10:05:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	pigment material	12	4	
BUILDING #7 BASEMENT SAMPLES												
					CLP TCL Semivolatiles and Pesticides/PCBs							sub-
B7-BW-03	B0012	Basement Water	6/8/2010	11:20:00 AM	CLP TCL Volatiles	A4 Scientific	6/10/2010	Dupl. of B7-BW-01	basement water	7	1	basement
					CLP TCL Volatiles							sub-
B7-BW-02	B0010	Basement Water	6/8/2010	12:15:00 PM	CLP TCL Semivolatiles and Pesticides/PCBs	A4 Scientific	6/10/2010	Field Sample	basement water	7	1	basement
					CLP TCL Semivolatiles and Pesticides/PCBs							sub-
B7-BW-01	B0003	Basement Water	6/8/2010	11:15:00 AM	CLP TCL Volatiles	A4 Scientific	6/10/2010	Dupl. of B7-BW-03	basement water	7	1	basement
					CLP TCL Semivolatiles and Pesticide							
					CLP TCL Volatiles							
	B0015				PCBs (aroclors)	A4 Scientific	6/10/2010					
B7-SED-04	MB0015	Sediment/Sludge	6/8/2010	12:30:00 PM	CLP TAL Total Metals and Cyanide	Bonner Analytical Testing Company	6/11/2010	Field Sample	basement sediment	7	1	S

TABLE 4
SAMPLE SUMMARY

Sample ID	Lab ID	Matrix	Sample Date	Sample Time	Analysis Name	Laboratory	Date Shipped	Sample Type	Comments			
									Container type	Bldg. #	Floor	Location
					CLP TCL Semivolatiles and Pesticides							
					CLP TCL Volatiles							
	B0014				PCBs (aroclors)	A4 Scientific	6/10/2010					
	MB0014				CLP TAL Total Metals and Cyanide	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-SED-03	B7-SED-03	Sediment/Sludge	6/8/2010	11:50:00 AM	Ignitability	EMSL	6/14/2010	Dup of B7-SED-02	basement sediment	7	1	S
					CLP TCL Semivolatiles and Pesticides							
					CLP TCL Volatiles							
	B0013				PCBs (aroclors)	A4 Scientific	6/10/2010					
	MB0013				CLP TAL Total Metals and Cyanide	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-SED-02	B7-SED-02	Sediment/Sludge	6/8/2010	11:45:00 AM	Ignitability	EMSL	6/14/2010	Dup of B7-SED-03	basement sediment	7	1	S
BUILDING #12 BASEMENT SAMPLES												
					CLP TCL Semivolatiles and Pesticides/PCBs							
B12-AQ-01	B0004	Surface Water	6/8/2010	9:40:00 AM	CLP TCL Volatiles	A4 Scientific	6/10/2010	Field Sample	basement water	12	B	
					CLP TCL Semivolatiles and Pesticides/PCBs							
					CLP TCL Volatiles							
	B0009				PCBs (aroclors)	A4 Scientific	6/10/2010					
B12-SED-01	MB0009	Basement Sediment	6/8/2010	9:45:00 AM	CLP TAL Total Metals and Cyanide	Bonner Analytical Testing Company	6/11/2010	Field Sample	basement sediment	12	B	
TAR SAMPLES												
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0041				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
Riverbank-1	MB0041	Solid	6/9/2010	2:00:00 PM	TCLP Metals	Bonner Analytical Testing Company	6/11/2010	Field Sample	NA	NA	NA	
					CLP TCL Volatiles							
					PCBs (aroclors)							
	B0030 †				TCLP Volatiles, Semivolatiles, Pesticides and Herbicides	A4 Scientific	6/10/2010					
					CLP TAL Total Metals and Cyanide							
	MB0030				TCLP Metals	Bonner Analytical Testing Company	6/11/2010					
					Corrosivity (pH)							
B7-TM-53B	B7-TM-53B	Waste	6/8/2010	11:15:00 AM	Ignitability	EMSL	6/14/2010	Field Sample	indoor AST	7	3	N
POTENTIAL ASBESTOS CONTAINING MATERIAL SAMPLES												
BK-001		pipe insulation	6/9/2010	9:30:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	1	
BK-002		pipe insulation	6/9/2010	9:45:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	1	
BK-003		pipe insulation	6/9/2010	9:55:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	1	
BK-004		pipe insulation	6/9/2010	10:15:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	2	N
BK-005		pipe insulation	6/9/2010	10:30:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	2	S
BK-006		pipe insulation	6/9/2010	10:30:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	3	N
BK-007		pipe insulation	6/9/2010	10:50:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	3	S
BK-008		pipe insulation	6/9/2010	10:55:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	3	
BK-009		pipe insulation	6/9/2010	11:00:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7	3	N
BK-010		pipe insulation	6/9/2010	11:20:00 AM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		12		
BK-011		pipe insulation	6/8/2010	2:30:00 PM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7		
BK-012		pipe insulation	6/8/2010	2:40:00 PM	Asbestos, PLM - Bulk (EPA 600/R-93/116 (<1%)	EMSL	6/14/2010	Field Sample		7		

Notes:
† = insufficient sample volume for AROCLORS analysis
†† = broken sample jar. No sample volume remaining for analysis
B7 = Building #7
B12 = Building #12
CLP = Contract Laboratory Program
FB = Field Blank
ID= identification
NA = Not applicable
PCB – polychlorinated biphenyl
PLM = polarized light microscopy
QC = quality control
SED = sediment
TAL = Target Analyte list
TB = Trip blank
TCLP = Toxicity Characteristics Leaching Procedure
TM = Tank material



Legend

- Asbestos sampling location
- Door
- Empty tank
- Tank with product/residue

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: Sample B7-P-01 is a composite of all tanks north of BK-009 (tanks 1-61 on the right-hand side of this figure).

0 10 20 Feet

Approximate Site Location =

New Jersey

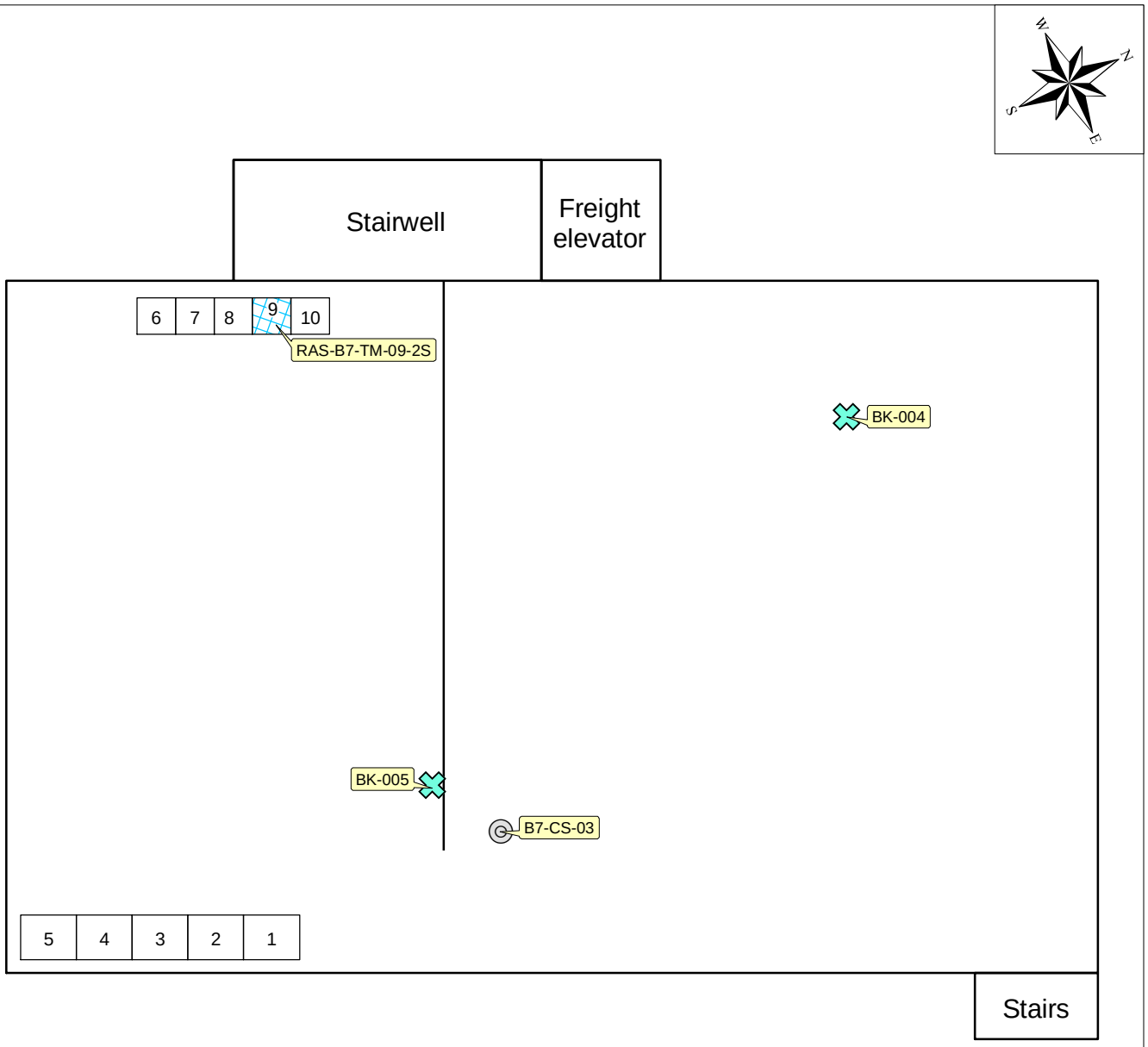
29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 3
Sampling Location Map, Building 7, 3rd Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on July 8, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH



Legend

- Asbestos sampling location
- 30-gallon open top carboy
- Empty tank/vat
- Vat with product/residue

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.

0 10 20 Feet

Approximate Site Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 4
Sampling Location Map, Building 7, 2nd Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on July 8, 2010
by D. Call, Tetra Tech EM Inc.

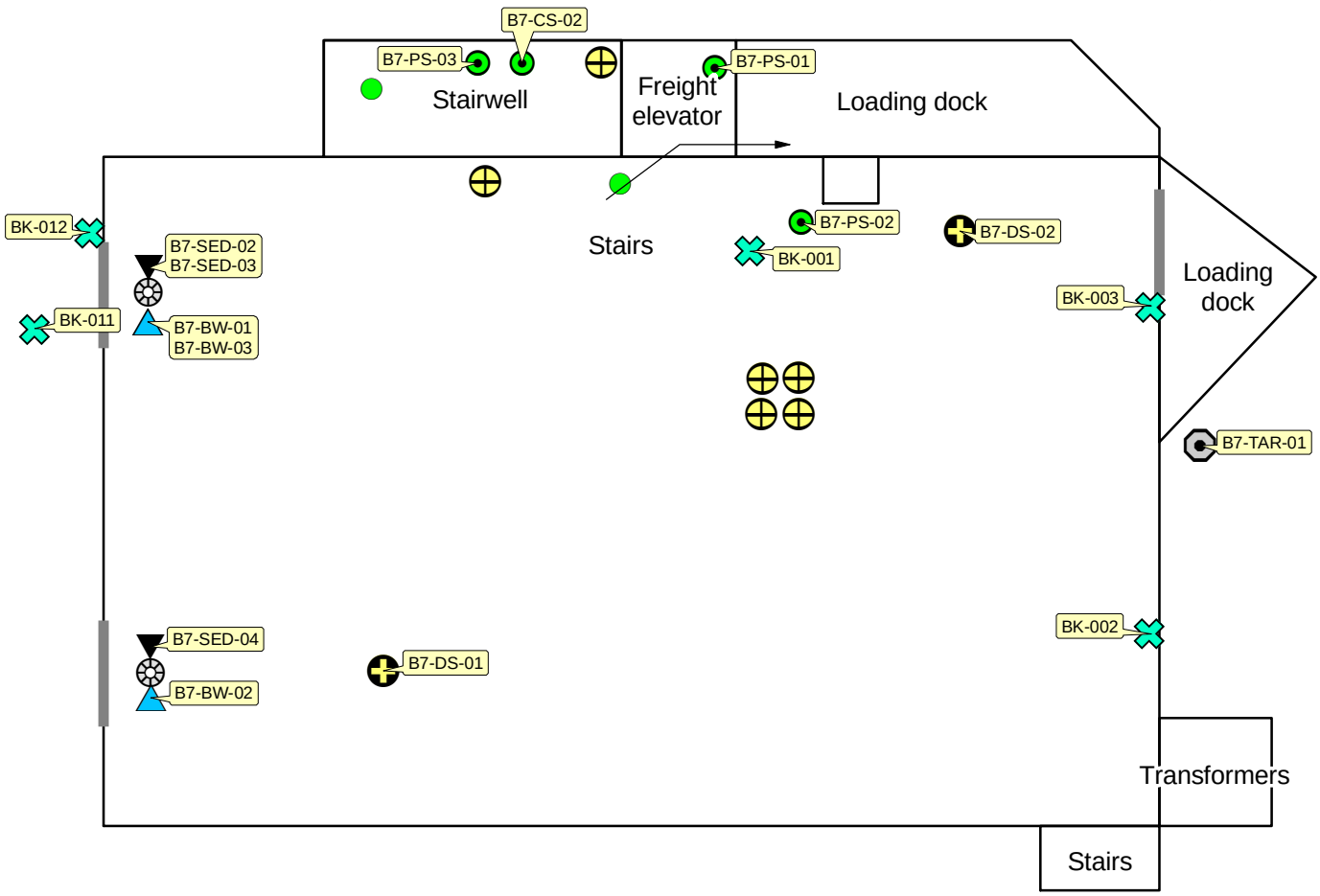
TETRA TECH

4.3.2 Drum, Carboy, and Container Inventory and Sampling

Tetra Tech collected one solid waste sample from the one 30-gallon carboy located on the second floor of Building #7 and one solid waste and six liquid waste samples from drums and containers located on the first floor of Building #7. Additionally, Tetra Tech collected two solid waste samples from the two drums located on the first floor of Building #12 and one liquid waste sample from a 5-gallon metal container also located on the first floor, near the 55-gallon drums. The solid waste material collected from the drums appeared to be granular activated carbon indicating that the two drums may have been used for water treatment. A sampling summary is presented in Table 4. Photographs of the tanks and Tetra Tech drum sampling activities are provided in the Appendix B. Figures 4, 5, and 6 show the locations of the samples collected from the drums and containers on the second and first floor Building 7 and from the first floor of Building #12, respectively. At each of the sampling locations, Tetra Tech filled two certified-clean, 4-ounce CWM glass jars with Teflon lined septa lids for TCL and TCLP VOCs and six certified-clean 8-ounce CWM glass jars with Teflon lined lids for TAL total metals and cyanide, aroclors, TCLP SVOC, TCLP metals, TCLP pesticides and herbicides, and ignitibility and corrosivity analyses.

4.3.3 Buildings # 7 and # 12 Basement Sampling

As summarized in Table 4, Tetra Tech collected a total of three aqueous samples and three sediment samples from the subbasement of Building 7, including one duplicate sample and one aqueous and one sediment samples from a sump in the basement of Building # 12. Figures 5 and 7 show the locations of the aqueous and sediment samples collected from Building 7 and Building #12, respectively. At each of the aqueous sampling locations, Tetra Tech filled three certified-clean, 40-ml glass VOC vials with Teflon lined septa lids for TCL VOC and four certified-clean 32-ounce amber glass jars for TCL SVOCs, pesticides and PCBs. At each of the sediment sampling locations, Tetra Tech filled one certified-clean, 4-ounce CWM glass jars with Teflon lined septa lids for TCL VOC and four certified-clean 8-ounce CWM glass jars with Teflon lined lids for TCL SVOCs, pesticides, aroclors, TAL total metals and cyanide, and ignitibility and corrosivity analyses.



Legend

- Aqueous sampling location
- Sediment sampling location
- Asbestos Sampling location
- Tar/resin-like material
- Manhole to subbasement
- 55-gallon drum
- Empty 55-gallon drum
- 5-gallon container
- Empty 5-gallon container

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.

0 10 20 Feet

Approximate Site Location =

New Jersey

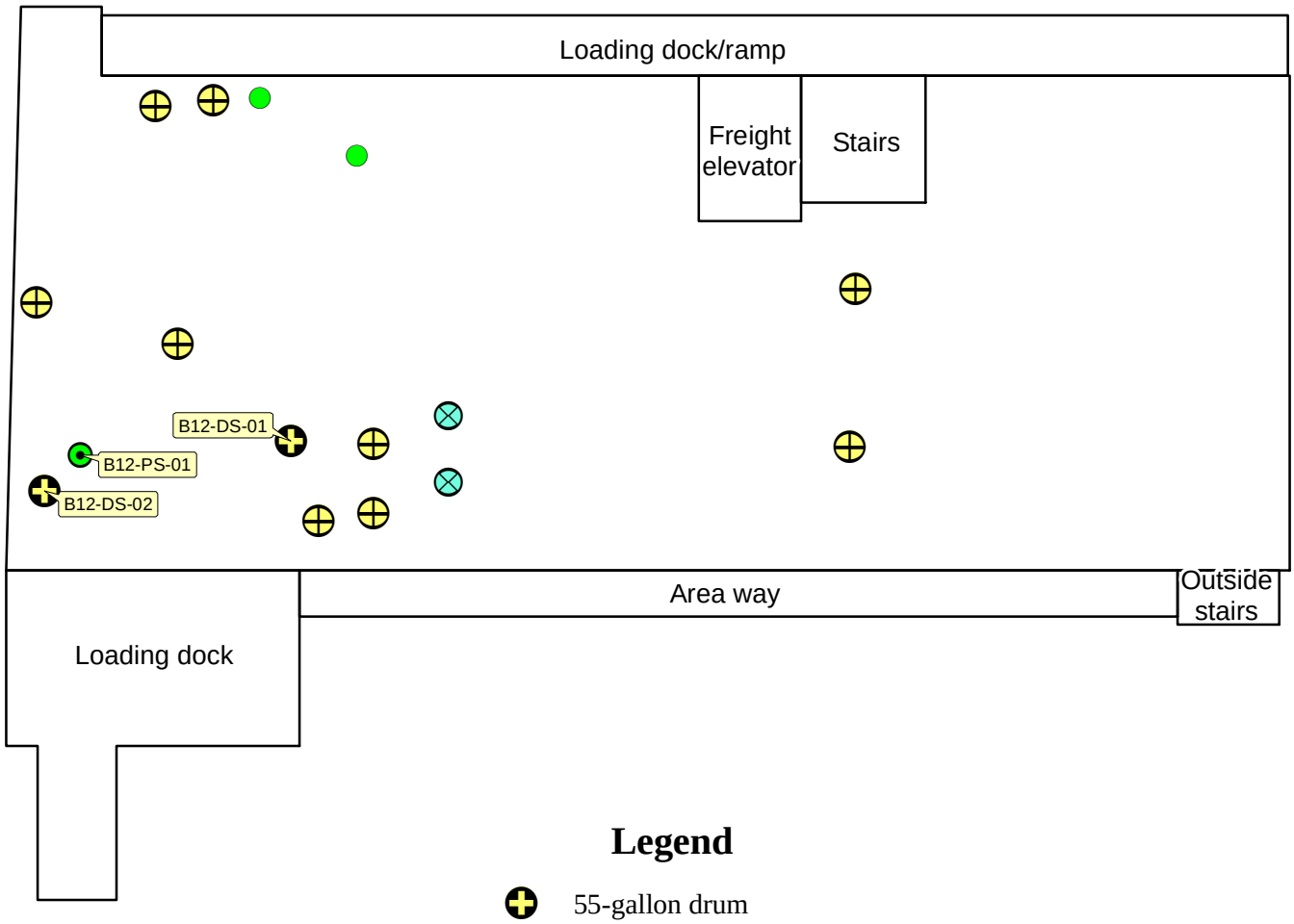
29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 5
Sampling Location Map, Building 7, 1st Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on July 8, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH



Legend

- 55-gallon drum
- Empty 55-gallon drum
- 5-gallon container
- Empty 5-gallon container
- Empty 30-gallon drum

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.

0 25 50 Feet

Approximate Site Location =

New Jersey

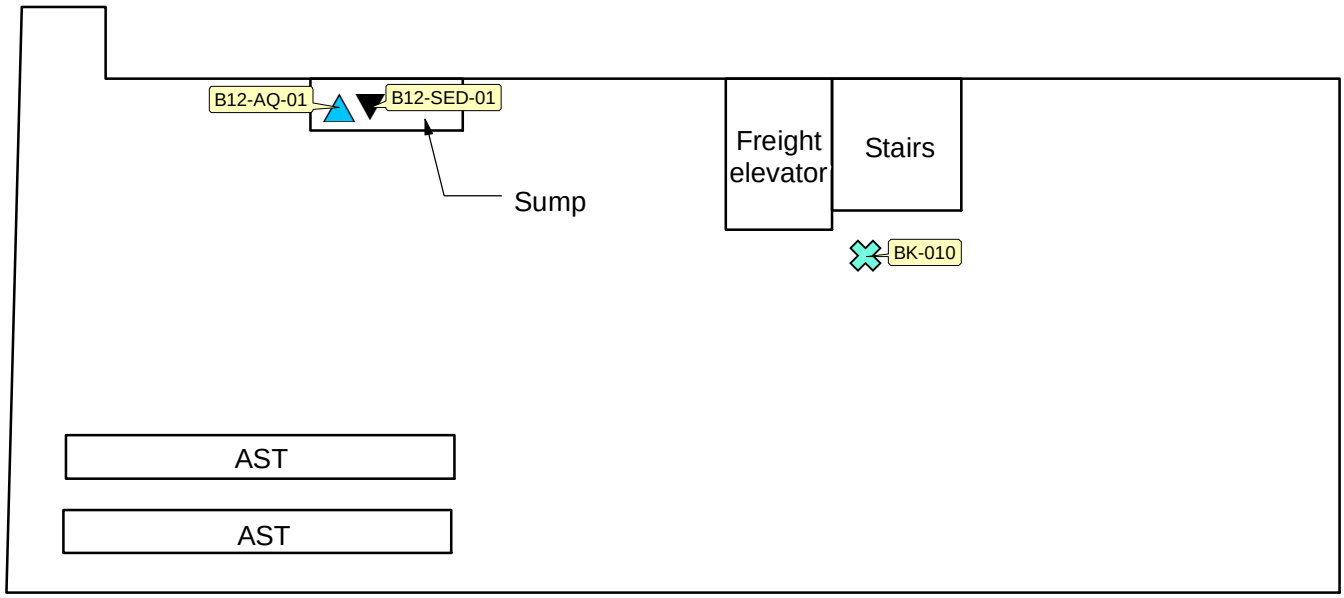
29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 6
Sampling Location Map, Building 12, 1st Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on June 22, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH



Legend

- Aqueous sampling location
- Sediment sampling location
- Asbestos sampling location

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.

0 25 50 Feet

Approximate Site Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 7
Sampling Location Map, Building 12, Basement

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on July 8, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH

4.3.4 Sampling of Red and Blue-Colored Pigments Located in Building #12

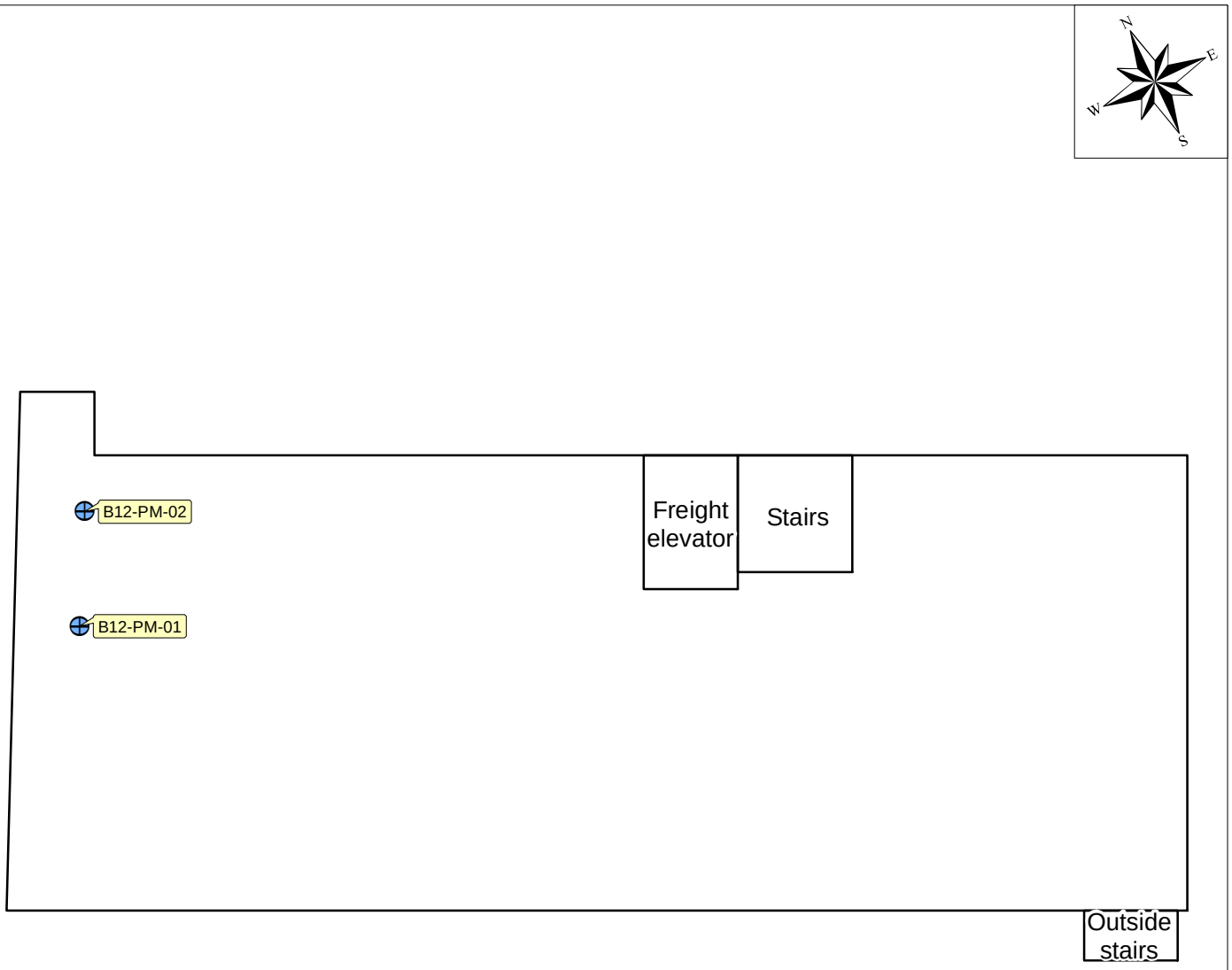
Tetra Tech collected one sample of the red-colored pigment and one sample of blue-colored pigments observed on the floors of Building #12. Figure 8 shows the locations of the pigment samples collected from Building #12. At each sampling location, Tetra Tech filled one certified-clean, 4-ounce CWM glass jar with Teflon lined septa lids for TCL VOC and three certified-clean 8-ounce CWM glass jars for TCL SVOCs, pesticides and PCBs. At each sampling location, Tetra Tech filled one certified-clean, 4-ounce CWM glass jars with Teflon lined septa lids for TCL VOCs and three certified-clean 8-ounce CWM glass jars with Teflon lined lids for TCL SVOCs, pesticides, aroclors, TAL total metals and cyanide, and ignitibility and corrosivity analyses.

4.3.5 Collection of Tar Samples

In addition to the collection of samples in Building #7 and Building #12, Tetra Tech collected a composite sample of a tar/resin-like material that was observed along the base of the north wall of Building #7 (identified as B7-TAR-01) and also leaching from the bank of the Passaic River (identified as Riverbank-1). Sampling location B7-TAR-01 is shown on Figure 5 and sampling location Riverbank-1 is shown on Figure 9. At each of the sampling locations, Tetra Tech filled two certified-clean, 4-ounce CWM glass jars with Teflon lined septa lids for TCL and TCLP VOCs and six certified-clean 8-ounce CWM glass jars with Teflon lined lids for TAL total metals and cyanide, aroclors, TCLP SVOCs, TCLP metals, TCLP pesticides and herbicides, and ignitibility and corrosivity analyses.

4.3.6 Asbestos-Form and Potential Asbestos Containing Material Sampling

As summarized in Table 4, Tetra Tech collected 11 bulk samples from pipe insulation contained inside and outside of Buildings # 7 and one bulk sample of pipe insulation in the basement of Building # 12. Potential asbestos containing material (PACM) samples were analyzed for the presence of asbestos-form fibers using EPA 600-R-93-116 “Method for the Determination of Asbestos in Bulk Building Materials using Polarized Light Microscopy” and EPA Method 600/R-93/116 Section 2.5 (Transmission Electron Microscopy (TEM) Percent by Mass). Photographs of the pipe insulation and sampling activities are provided in the Appendix B. Figures 3, 4, 5, and 7 show the locations of the PACM samples collected by Tetra Tech personnel.



Legend

⊕ Pigment sampling location

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.

0 25 50 Feet

Approximate Site Location =

New Jersey

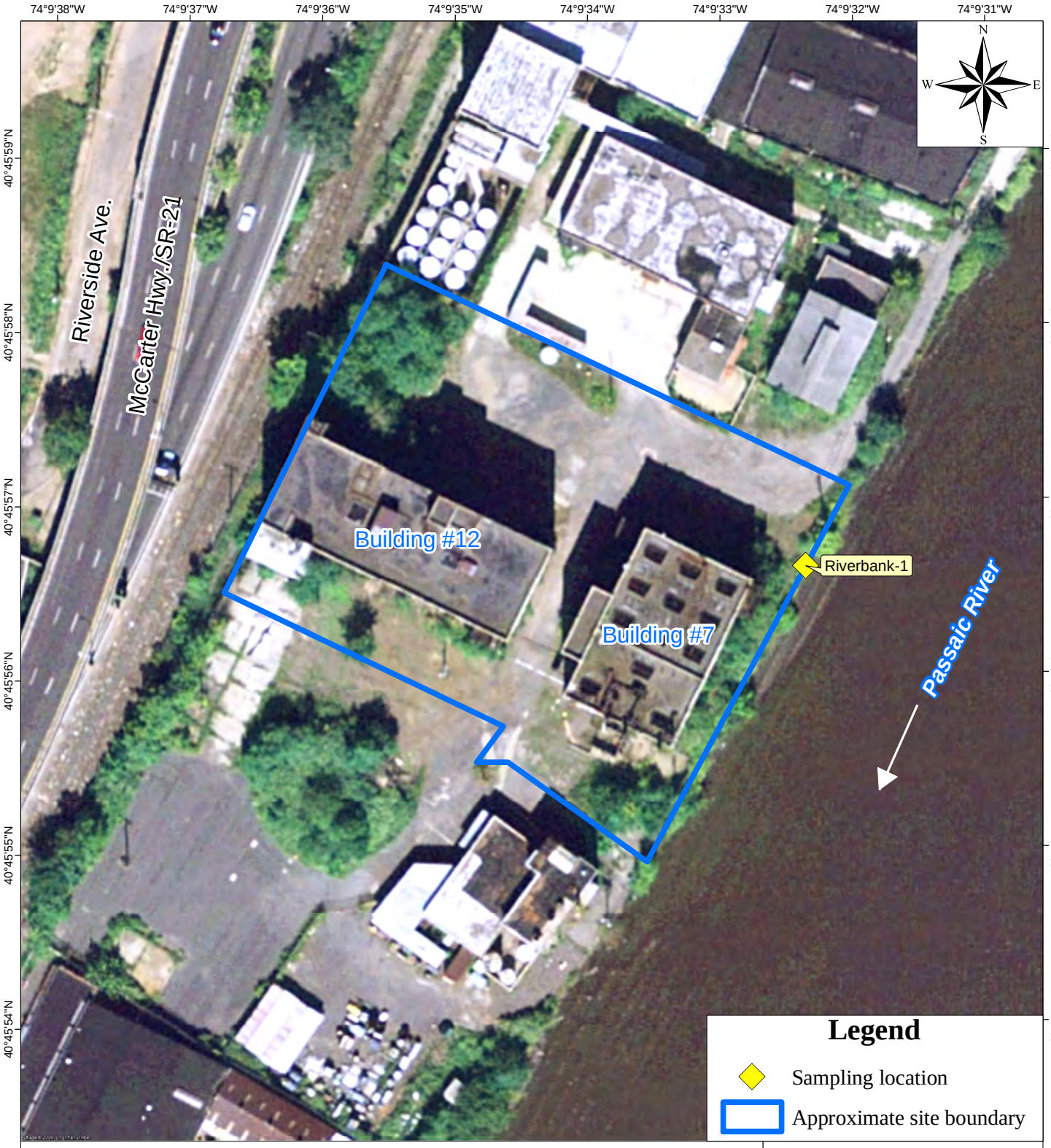
29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 8
Sampling Location Map, Building 12, 4th Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on June 22, 2010
by D. Call, Tetra Tech EM Inc.

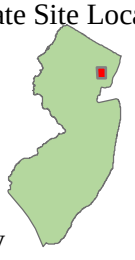
TETRA TECH



Source: Modified from DigitalGlobe aerial photography, September 19, 2009.
Note: Results shown in millgrams per kilogram (mg/kg).

0 50 100 Feet

Approximate Site Location =



New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 9
Riverbank Sample

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on September 1, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH

4.4 SAMPLE HANDLING

Sample handling, packaging, and shipment procedures were conducted in accordance with Tetra Tech SOP No. 019, "Packaging and Shipping Samples" (Tetra Tech 2008b). CLP labels and bottleware tags were placed on all sample containers and all shipping containers were properly labeled with EPA chain-of-custody seals and delivered with signed chain-of-custody forms and appropriate hazard warnings for laboratory personnel. Samples were shipped to the CLP laboratories assigned by EPA Region 2 and to private laboratories procured by Tetra Tech as shown in Table 4. Samples collected for organic and inorganic analyses were shipped to EPA CLP laboratories, A4 Scientific of The Woodlands, Texas and Bonner Analytical Testing Company of Hattiesburg, Mississippi, respectively, under CLP Case Number 40200. Samples were shipped to A4 Scientific on June 10, 2010 and to Bonner Analytical Testing Company on June 11, 2010. Appropriate samples were preserved and all samples were kept on ice during delivery to the assigned CLP laboratory. All sampling data, including sample time, date, location, type, and sampler, was recorded on Forms2Lite chain-of-custody and traffic reports and in the site logbook. Copies of the U.S EPA CLP traffic report and chain of custody records are provided in Appendix C.

PACM and samples collected for corrosivity and ignitibility were shipped to EMSL, a private laboratory procured by Tetra Tech, on June 14, 2010. An EMSL asbestos chain-of-custody Record was used for the PACM samples and is also included in Appendix C.

4.5 IDW AND EQUIPMENT DECONTAMINATION

All investigation-derived waste (IDW) generated during the removal assessment (dedicated sampling equipment and personal protective equipment [PPE]) was double-bagged and placed in one of two 55-gallon drums that remained on site. Non-dedicated sampling equipment underwent a gross decontamination with Alconox and distilled water followed by a double rinse with distilled water, in accordance with Tetra Tech SOP No. 002, "General Equipment Decontamination" (Tetra Tech 2009b). Disposal of IDW will be arranged following the receipt of the sample analytical data.

5.0 ANALYTICAL RESULTS

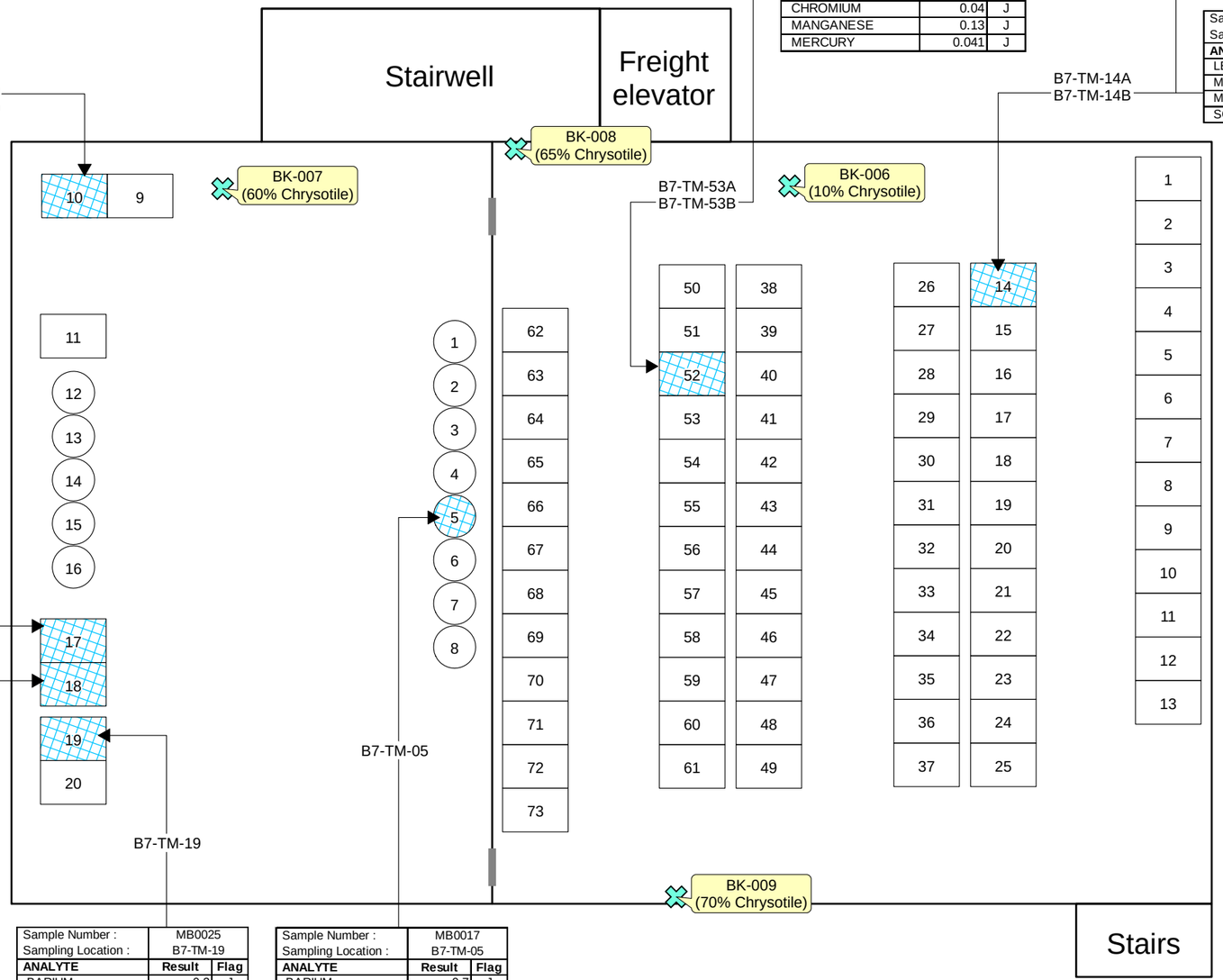
As detailed in section 4.0 all samples collected during this assessment were submitted to EPA-assigned laboratories for analysis. Table 4 provides a summary for all of the samples collected during this sampling event including the sample matrix, and analytical parameters. The sections below discuss the analytical results reported by the laboratories for the samples collected during this assessment.

5.1 STORAGE/PROCESS TANK SAMPLING RESULTS

Analytical results for the 10 waste samples collected from tanks and containers located on the second and third floors of Building #7 indicated the presence of VOCs above the analytical quantitation limit in samples collected from tank 17 (sample B7-TM-17) and tank 14 (sample B7-TM-14B). VOCs reported in B7-TM-17 include acetone (1,100 µg/kg [micrograms per kilogram]) and xylene (630 µg/kg); methylene chloride was reported at 560 µg/kg in the sample collected from tank 14B. In addition to these VOCs, various VOC tentatively identified compounds (TIC) were reported above the analytical quantitation limit from the samples collected from tanks 5, 9 and 14A and 14B. Analytical results for the composite sample, B7-P-01 collected of the resin-like material present in the third floor tank process lines and pipes also indicated the presence of VOCs and VOC TICs, including acetone (780 µg/kg), methylcyclohexane (3,200 µg/kg), toluene (3,200 µg/kg), ethylbenzene (150,000 µg/kg), o-xylene (29,000 µg/kg), m,p-xylene (65,000 µg/kg) and isopropylbenzene (7,700 µg/kg).

No aroclor compounds or significant levels of inorganic compounds were reported in any tank or container samples collected from Building #7. A lead level of 1,110 milligrams per kilogram (mg/kg) was reported in the composite sample B7-P-01. The TCLP analysis for the tank and container samples did not reveal any compound that exceeded the corresponding regulatory level. In addition, none of the tank samples exhibited the characteristics of corrosivity (pH less than 2 or greater than 12.5) or ignitability (flash point less than 140º F).

The analytical data for the waste samples collected from the tanks located on the second and third floors of Building #7 are summarized in Appendix D, Tables 1 through 5 and the sampling locations and concentrations detected above the analytical quantitation limits are presented on Figures 10 and 11. The ignitability/corrosivity test results are provided an Attachment 1.



Sample Number :	MB0018 (Duplicate of MB0020)	
Sampling Location :	B7-TM-09 (Duplicate of B7-TM-10)	
ANALYTE	**Result ***	**Flag**
COPPER	0.1	J
IRON	9.3	
LEAD	1.8	
MAGNESIUM	4.6	J
MANGANESE	0.12	J
MERCURY	0.049	
SODIUM	13.4	J

* Highest level reported in duplicate pair shown.

Sample Number :	MB0029	
Sampling Location :	B7-TM-53A	
ANALYTE	**Result**	**Flag**
CALCIUM	8.4	J
MANGANESE	0.11	J
MERCURY	0.06	J

Sample Number :	MB0030	
Sampling Location :	B7-TM-53B	
ANALYTE	**Result**	**Flag**
CALCIUM	6.1	J
CHROMIUM	0.04	J
MANGANESE	0.13	J
MERCURY	0.041	J

Sample Number :	B0022	
Sampling Location :	B7-TM-14B	
Volatile Compound	**Result**	**Flag**
Methylene chloride	560	J

Sample Number :	MB0021	
Sampling Location :	B7-TM-14A	
ANALYTE	**Result**	**Flag**
LEAD	1.4	
SODIUM	1.5	J
THALLIUM	5.8	

Sample Number :	MB0022	
Sampling Location :	B7-TM-14B	
ANALYTE	**Result**	**Flag**
LEAD	3.4	
MANGANESE	0.12	J
MERCURY	0.075	J
SODIUM	3.3	J

Sample Number :	MB0023	
Sampling Location :	B7-TM-17	
ANALYTE	**Result**	**Flag**
BARIUM	0.16	J
CALCIUM	38.1	J
IRON	23.9	
MAGNESIUM	7.2	J
MANGANESE	30.4	
ZINC	0.069	J

Sample Number :	B0023	
Sampling Location :	B7-TM-17	
Volatile Compound	**Result**	**Flag**
Acetone	1100	J
2-Butanone	110	J
4-Methyl-2-pentanone	220	J
Toluene	65	J
2-Hexanone	44	J
Ethylbenzene	170	J
o-Xylene	630	J
m,p-Xylene	14	J
Styrene	21	J
Isopropylbenzene	26	J

Sample Number :	MB0024	
Sampling Location :	B7-TM-18	
ANALYTE	**Result**	**Flag**
BARIUM	0.22	J
CALCIUM	36.3	J
IRON	12.3	
MANGANESE	17.4	
MERCURY	0.049	J
ZINC	0.26	J

Sample Number :	B0024	
Sampling Location :	B7-TM-18	
Volatile Compound	**Result**	**Flag**
Methylcyclohexane	9.4	J

Sample Number :	MB0025	
Sampling Location :	B7-TM-19	
ANALYTE	**Result**	**Flag**
BARIUM	0.2	J
CALCIUM	15.8	J
IRON	15.6	
MANGANESE	6.6	
MERCURY	0.071	J

Sample Number :	MB0017	
Sampling Location :	B7-TM-05	
ANALYTE	**Result**	**Flag**
BARIUM	0.7	J
CALCIUM	24.5	J
CHROMIUM	0.048	J
COBALT	0.035	J
IRON	35.8	
LEAD	0.37	J
MANGANESE	2.8	
ZINC	0.95	J

Tank/Piping Resin Composite Sample Results

Sample Number :	MB0044	
Sampling Location :	B7-P-01	
ANALYTE	**Result**	**Flag**
ALUMINUM	41.6	
ARSENIC	0.54	J
BARIUM	7.8	J
CADMIUM	0.42	J
CALCIUM	224	J
CHROMIUM	1.7	
COBALT	304	
COPPER	3.3	
IRON	2910	J
LEAD	1110	J
MAGNESIUM	38.2	J
MANGANESE	44.7	
NICKEL	2.2	J
POTASSIUM	36.5	J
SELENIUM	0.64	J
SODIUM	169	J
VANADIUM	0.62	J
ZINC	79.6	J

Sample Number :	B0044	
Sampling Location :	B7-P-01	
Volatile Compound	**Result**	**Flag**
Methylene chloride	780	J
Methylcyclohexane	3200	J
Toluene	3200	J
Ethylbenzene	15000	J
o-Xylene	29000	J
m,p-Xylene	65000	J
Isopropylbenzene	7700	J

0 5 10 15 20 Feet

Legend

- Asbestos sampling location
- Door
- Empty tank
- Tank with product/residue

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: Asbestos samples analyzed by Polar Light Microscopy (PLM), sampling results (in percent asbestos) are given in parentheses below each sample ID. All organic compound results shown in ug/kg, all inorganic compound results shown in mg/kg.

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 10
Analytical Results, Waste/Asbestos Samples, Building 7, 3rd Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on August 31, 2010
by D. Call, Tetra Tech EM Inc.

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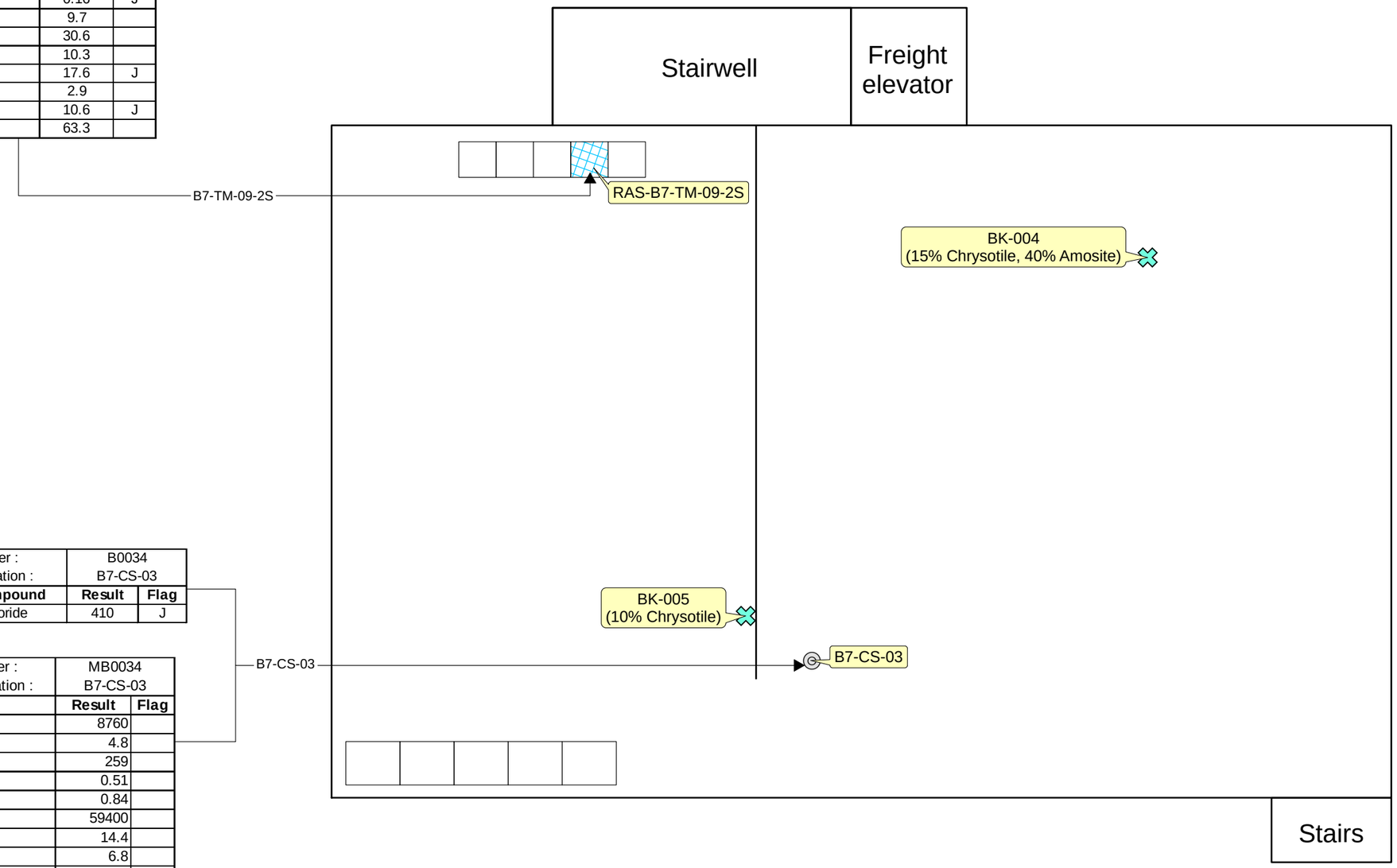
Sample Number :	MB0019	
Sampling Location :	B7-TM-09-2S	
ANALYTE	**Result**	**Flag**
ALUMINUM	13.2	
CADMIUM	0.032	J
CHROMIUM	0.16	J
COPPER	9.7	
IRON	30.6	
LEAD	10.3	
MAGNESIUM	17.6	J
MANGANESE	2.9	
SODIUM	10.6	J
ZINC	63.3	



Sample Number :	B0034	
Sampling Location :	B7-CS-03	
Volatile Compound	**Result**	**Flag**
Methylene chloride	410	J

Sample Number :	MB0034	
Sampling Location :	B7-CS-03	
ANALYTE	**Result**	**Flag**
ALUMINUM	8760	
ARSENIC	4.8	
BARIUM	259	
BERYLLIUM	0.51	
CADMIUM	0.84	
CALCIUM	59400	
CHROMIUM	14.4	
COBALT	6.8	
COPPER	23.1	
IRON	6870	J
LEAD	18.1	J
MAGNESIUM	4990	
MANGANESE	812	
MERCURY	0.11	J
NICKEL	27.1	
POTASSIUM	4970	
SELENIUM	1.4	J
SILVER	0.79	J
SODIUM	12900	J
VANADIUM	86.3	
ZINC	156	J

Legend

- Asbestos sampling location
- 30-gallon open top carboy
- Empty tank/vat
- Vat with product/residue

0 5 10 15 20 Feet

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 11
Analytical Results, Waste/Asbestos Samples, Building 7, 2nd Floor

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: Asbestos samples analyzed by Polar Light Microscopy (PLM), sampling results (in percent asbestos) are given in parentheses below each sample ID. All organic compound results shown in ug/kg, all inorganic compound results shown in mg/kg.

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on August 23, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH

5.2 DRUM, CARBOY, AND CONTAINER SAMPLING RESULTS

Building #7

Analytical results for the six samples collected from drums and containers located on the first floor of Building #7 indicated the presence of VOCs in one sample. Sample B7-DS-02 collected from a 55-gallon drum located on the first floor contained methylene chloride (380 µg/kg), toluene (4,100 µg/kg), ethylbenzene (250,000 µg/kg), o-xylene (390,000 µg/kg), m,p-xylene (710,000 µg/kg) and isopropylbenzene (21,000 µg/kg). No other drum or container sample collected from the first floor of Building # 7 contained VOCs above the analytical quantitation limits. Various VOC TICs were also reported in samples collected from drums and containers located on the first floor of Building #7 including samples B7-DS-02, B7-PS-03, B7-PS-01 and B7-CS-02.

No aroclor compounds or significant levels of inorganic compounds were reported in any of the samples collected from drums or containers located on the first floor of Building #7. The only compound reported from the TCLP analysis of these samples to exceed the corresponding regulatory level was pyridine, which was detected at an estimated concentration of 98,000 micrograms per liter (µg/l) in sample B7-CS-02 collected from a 5-gallon plastic container located in the first floor stairwell of Building #7. Sample B7-CS-02 was the only sample to exhibit the characteristic of ignitability with a flash point of 130º F. No sample collected from the third floor of Building #7 exhibited the characteristic of corrosivity.

Sample B7-CS-03 collected from an open 30 gallon carboy drum located on the second floor of Building #7 contained methylene chloride at 410 µg/kg. No aroclor compounds or significant levels of inorganic compounds were reported in sample B7-CS-03. The TCLP analysis for the sample collected from this carboy did not reveal any compound that exceeded the corresponding regulatory level. This sample did not exhibit the characteristics of corrosivity or ignitability.

Building #12

Analytical results reported from samples collected from the two drums (B12-DS-02 and B12-DS-01) and one 5-gallon container (B12-PS-01) located on the first floor of Building #12 indicate that they contain VOCs. Specifically, the sample collected from the 55-gallon drum identified as DS-01 contained methylene chloride (32,000 µg/kg) and bromochloromethane (2,300 µg/kg); the 55-gallon drum identified as DS-02 contained acetone (39,000 µg/kg), methyl acetate (11,000 µg/kg), methylene chloride (5,500 µg/kg), methyl tert-butyl ether (3,100 µg/kg) 1,1,1-trichloroethane (2,100 µg/kg), cyclohexane (13,000 µg/kg) and carbon tetrachloride (720 µg/kg). The oily sample collected from the pail identified as PS-01 contained acetone (13,000,000 µg/kg) and 2-butanone (67,000 µg/kg). VOC TICs were also reported in the samples collected from DS-02 and PS-01.

No aroclor compounds were detected in the samples collected from the 55-gallon drums; there was insufficient volume to perform the aroclor analysis on the oily sample collected from PS-01. There were no significant levels of inorganic compounds reported in any of these samples and the TCLP analysis did not reveal any compound that exceeded the corresponding regulatory level. In addition, none of the container samples exhibited the characteristics of corrosivity (pH less than 2 or greater than 12.5) or ignitability (flash point less than 140º F).

The analytical data for the samples collected from drums and containers located within Building # 7 and Building #12 are summarized in Appendix D, Tables 6 through 10 and the sampling locations and concentrations detected above the analytical quantitation limits are presented on Figures 12 and 13. The ignitability/corrosivity test results are provided an Attachment 1.

5.3 BASEMENT SAMPLING RESULTS

Building # 7 Basement

Analytical results from aqueous samples B7-BW-01 and duplicate sample B7-BW-03 collected from the subbasement of Building #7 revealed numerous VOCs up to a maximum concentration of 430 µg/l reported for toluene. Numerous VOC TICs were also reported in these samples. The second subbasement aqueous sample collected from Building #7 (B7-BW-02) contained no VOCs or VOC TICs above the laboratory quantitation limit.

SVOCs were also detected in the subbasement aqueous samples collected from Building #7 including phenol (up to 13,000 µg/l), 2-methlyphenol (up to 13,000 µg/l) and 4-methly phenol (up to 4,700 µg/l). The pesticides alpha-BHC and gamma chlordane were reported in one of the subbasement aqueous samples at estimated concentrations of 310 µg/l and 140 µg/l, respectively. No aroclor compounds were reported in any of the aqueous samples collected from the subbasement of Building #7.

Analytical results of the sediment samples collected from the Building #7 subbasement revealed numerous VOCs with the highest concentrations detected in B7-SED-04 including 1,1,2-trichloro-1,2,2-trifluoroethane (27,000 µg/kg), acetone (11,000 µg/kg), methyl acetate (12,000 µg/kg), methylene chloride (220,000 µg/kg), 2-butanone (120,000 µg/kg), chloroform (110,000 µg/kg), 1,1,1-trichloroethane (1,100,000 µg/kg), trichloroethene (5,200 µg/kg), methylcyclohexane (2,900 µg/kg), 4-methyl-2-pentanone (24,000 µg/kg), toluene (230,000 µg/kg), tetrachloroethene (280,000µg/kg), chlorobenzene (2,200 µg/kg), ethylbenzene (58,000 µg/kg), 1,1,2-trichloroethane (91,000 µg/kg), o-xylene (240,000 µg/kg), m,p-xylene (230,000

Sample Number :	MB0042	
Sampling Location :	B7-PS-03	
ANALYTE	**Result**	**Flag**
ALUMINUM	14.6	J
BARIUM	2	J
CADMIUM	0.073	J
CALCIUM	124	J
CHROMIUM	1.2	
COBALT	0.23	J
COPPER	1.4	J
IRON	1090	J
LEAD	3.4	J
MAGNESIUM	10	J
MANGANESE	4.7	
NICKEL	1.9	J
POTASSIUM	42.9	J
SODIUM	336	J
ZINC	23.2	J

Sample Number :	MB0045	
Sampling Location :	B7-CS-02	
ANALYTE	**Result**	**Flag**
BARIUM	0.51	J
CALCIUM	19.1	J
CHROMIUM	0.43	J
COPPER	0.1	J
IRON	511	
LEAD	0.74	
MANGANESE	1.5	
SODIUM	1120	
CYANIDE	0.61	J

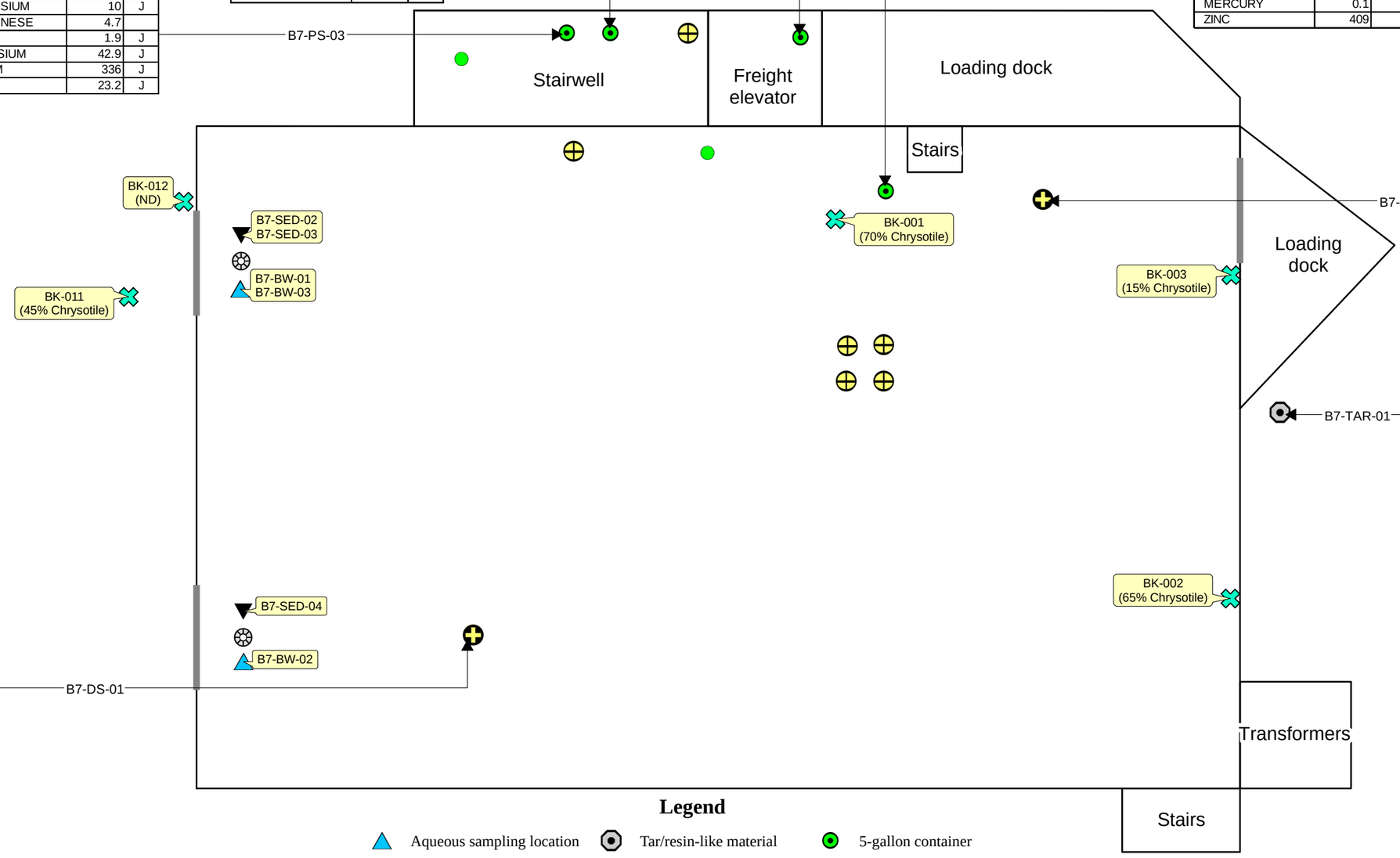
Sample Number :	B0043	
Sampling Location :	B7-CS-02	
Volatile Compound	**Result**	**Flag**
Methyl acetate	110	J

Sample Number :	MB0037	
Sampling Location :	B7-PS-01	
ANALYTE	**Result**	**Flag**
BARIUM	14.4	J
SODIUM	21.2	J
ZINC	70.5	

Sample Number :	MB0036	
Sampling Location :	B7-PS-02	
ANALYTE	**Result**	**Flag**
ALUMINUM	3.5	J
BARIUM	182	
CALCIUM	114	J
CHROMIUM	0.14	J
COPPER	41.2	
IRON	25.9	
LEAD	3.6	
MAGNESIUM	3.1	J
MANGANESE	0.97	
MERCURY	0.1	
ZINC	409	

Sample Number :	B0040	
Sampling Location :	B7-DS-02	
Volatile Compound	**Result**	**Flag**
Methylene chloride	380	J
Toluene	4100	J
Ethylbenzene	250000	J
o-Xylene	390000	J
m,p-Xylene	710000	J
Isopropylbenzene	21000	J

Sample Number :	MB0040	
Sampling Location :	B7-DS-02	
ANALYTE	**Result**	**Flag**
ALUMINUM	6.4	J
BARIUM	0.29	J
CALCIUM	161	J
CHROMIUM	6.5	
COPPER	1.1	J
IRON	198	
LEAD	2.5	
MAGNESIUM	31.9	J
MANGANESE	2.5	
ZINC	6.8	



Sample Number :	B0016	
Sampling Location :	B7-TAR-01	
Volatile Compound	**Result**	**Flag**
Acetone	1600	
Methyl acetate	170	J
Methylene chloride	300	
2-Butanone	260	J
Cyclohexane	63	J
Methylcyclohexane	700	
Toluene	130	J
Ethylbenzene	460	
o-Xylene	2700	
m,p-Xylene	2900	
Isopropylbenzene	1000	

Sample Number :	B0016	
Sampling Location :	B7-TAR-01	
Semivolatile Compound	Result	Flag
Acetophenone	83000	J
Naphthalene	79000	J
2-Methylnaphthalene	21000	J
4,6-Dinitro-2-methylphenol	11000	J

Sample Number :	MB0035	
Sampling Location :	B7-DS-01	
ANALYTE	**Result**	**Flag**
ALUMINUM	6190	
ARSENIC	1.1	
BARIUM	149	
BERYLLIUM	1.2	
CADMIUM	0.25	J
CALCIUM	8200	
CHROMIUM	16.8	J
COBALT	10.2	
COPPER	5	
IRON	5620	J
LEAD	8.7	J
MAGNESIUM	4630	
MANGANESE	65.1	J
NICKEL	9.7	
POTASSIUM	987	
SELENIUM	0.89	J
SODIUM	216	J
VANADIUM	20.9	
ZINC	121	J
CYANIDE	3.6	J

Legend

- Aqueous sampling location
- Sediment sampling location
- Asbestos Sampling location
- Tar/resin-like material
- Manhole to subbasement
- 55-gallon drum
- Empty 55-gallon drum
- 5-gallon container
- Empty 5-gallon container
- Overhead door

0 5 10 15 20 Feet

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: Asbestos samples analyzed by Polar Light Microscopy (PLM), sampling results (in percent asbestos) are given in parentheses below each sample ID. All organic compound results shown in ug/kg, all inorganic compound results shown in mg/kg.

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 12
Analytical Results, Waste/Asbestos Samples, Building 7, 1st Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on August 23, 2010
by D. Call, Tetra Tech EM Inc.

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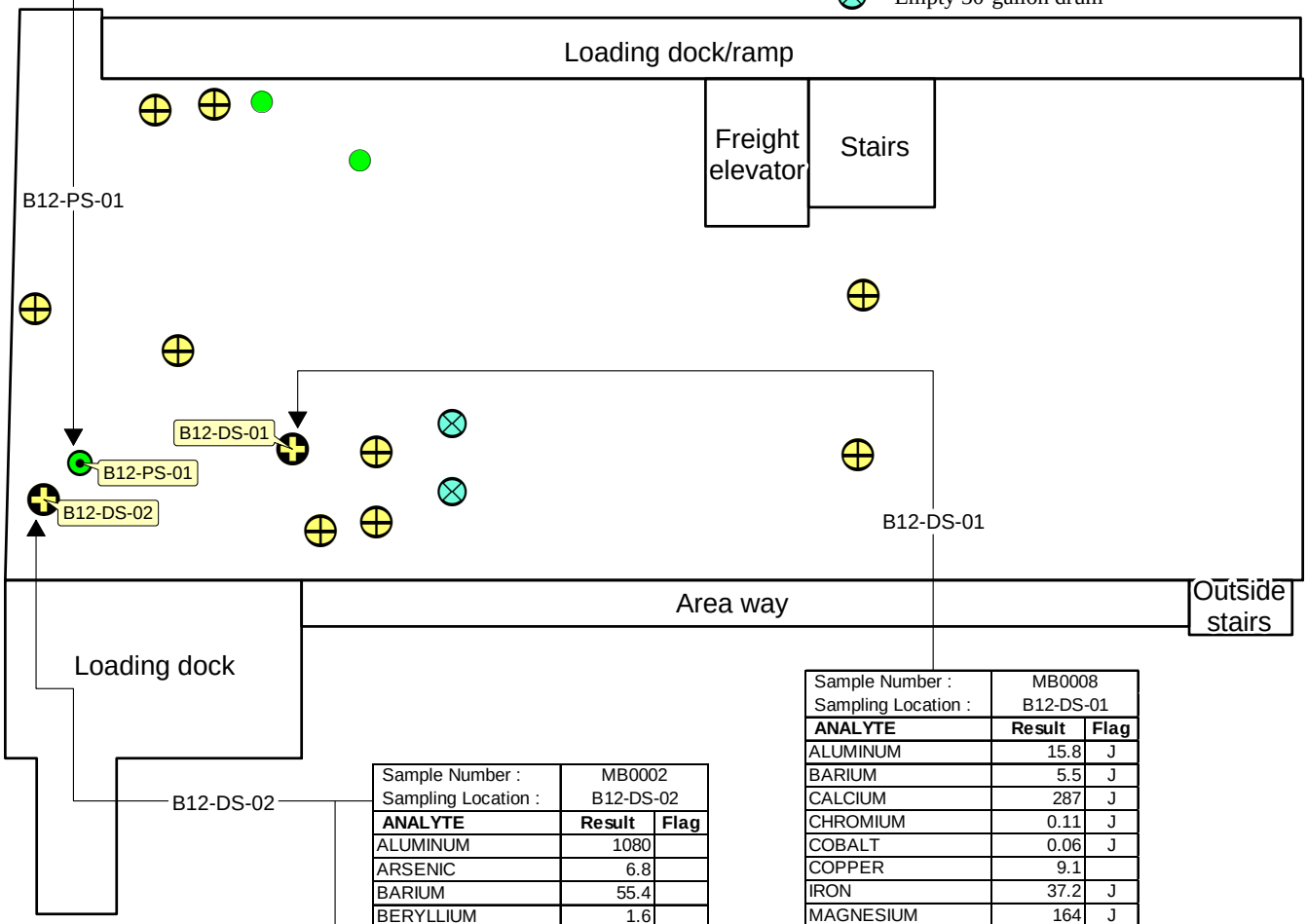
Sample Number :	MB007
Sampling Location :	B12-PS-01

ANALYTE	Result	Flag
CHROMIUM	0.056	J
IRON	1.9	J
ZINC	0.13	J

Sample Number :	B0007	
Sampling Location :	B12-PS-01	
Volatile Compound	**Result**	**Flag**
Acetone	13000000	J
2-Butanone	67000	J

Legend

- 55-gallon drum
- Empty 55-gallon drum
- 5-gallon container
- Empty 5-gallon container
- Empty 30-gallon drum



Sample Number :	MB0008
Sampling Location :	B12-DS-01

ANALYTE	Result	Flag
ALUMINUM	15.8	J
BARIUM	5.5	J
CALCIUM	287	J
CHROMIUM	0.11	J
COBALT	0.06	J
COPPER	9.1	
IRON	37.2	J
MAGNESIUM	164	J
MANGANESE	3.8	
MERCURY	0.052	J
NICKEL	0.49	J
POTASSIUM	5510	
SODIUM	428	J

Sample Number :	B0008	
Sampling Location :	B12-DS-01	
Volatile Compound	**Result**	**Flag**
Methylene chloride	32000	J
Bromochloromethane	2300	J

Sample Number :	MB0002
Sampling Location :	B12-DS-02

ANALYTE	Result	Flag
ALUMINUM	1080	
ARSENIC	6.8	
BARIUM	55.4	
BERYLLIUM	1.6	
CADMIUM	0.069	J
CALCIUM	1460	J
CHROMIUM	11.4	J
COBALT	5.7	
COPPER	22.4	J
IRON	3850	J
MAGNESIUM	210	J
MANGANESE	51.3	J
NICKEL	26.3	
POTASSIUM	91.1	J
SELENIUM	1.6	J
SODIUM	143	J
VANADIUM	12.4	

Sample Number :	B0002	
Sampling Location :	B12-DS-02	
Volatile Compound	**Result**	**Flag**
Acetone	39000	J
Methyl acetate	11000	J
Methylene chloride	5500	J
Methyl tert-butyl ether	3100	J
1,1,1-Trichloroethane	2100	J
Cyclohexane	13000	J
Carbon tetrachloride	720	J

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: All organic compound results shown in ug/kg, all inorganic compound results shown in mg/kg.

0 25 50 Feet

Approximate Site Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 13
Analytical Results, Waste/Oil Samples, Building 12, 1st Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on August 31, 2010
by D. Call, Tetra Tech EM Inc.

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µg/kg), 1,3-dichlorobenzene (5,000 µg/kg), 1,4- dichlorobenzene (5,800 µg/kg), 1,2-dichlorobenzene (59,000 µg/kg), 1,3-dichlorobenzene (290,000 µg/kg) and 1,2,3-trichlorobenzene (58,000 µg/kg). Numerous VOC TICs were also detected in these sediment samples.

SVOCs were also detected in Building #7 subbasement sediment samples. The highest concentrations were reported in B7-SED-04 including phenol (2,200,000 µg/kg), 2-methylphenol (4,700,000 µg/kg), acetophenone (430,000 µg/kg), 4-methylphenol (1,400,000 µg/kg), 2,4-dimethylphenol (430,000 µg/kg), 1,1-biphenyl (56,000 µg/kg), 2-chloronaphthalene (110,000 µg/kg), diethylphthalate (240,000 µg/kg), and bis(2-ethylhexyl)phthalate (230,000 µg/kg).

No pesticides, aroclor compounds or significant levels of inorganic compounds were reported in the sediment samples collected from the subbasement of Building #7.

Corrosivity and ignitability analysis was completed for samples B7-SED-02 and B7-SED-03; neither sample exhibited these characteristics.

The analytical data for the samples collected from the subbasement of Building #7 are summarized in Appendix D, Tables 17 through 27 and the sampling locations and concentrations detected above the analytical quantitation limits are presented on Figure 14. The ignitability/corrosivity test results are provided an Attachment 1.

Building # 12 Basement Sampling Results

The only VOC reported above the laboratory quantitation limit in the aqueous sample collected from the sump in the basement of Building #12 was methylene chloride, reported at 13 µg/l. No other organic compounds were reported in this sample.

VOCs reported in the sediment sample collected from the basement of Building #12 include methylene chloride (11,000 µg/kg), m.p-xylene (5,800 µg/kg), bromoform (15,000 µg/kg), 1,3-dichlorobenzene (4,400 µg/kg), 1,2,4-trichlorobenzene (2,600,000 µg/kg) and 1,2,3-trichlorobenzene (1,300,000 µg/kg).

The only SVOC detected in the Building #12 sediment sample was 2-methlylphenol reported at a concentration of 7,100 µg/kg. No pesticides, aroclor compounds or significant levels of inorganic compounds were reported in the sediment sample collected from the basement of Building #12.

Sample Number :	B0013 (Duplicate of B0014)	
Sampling Location :	B7-SED-02 (Duplicate of B7-Sed-03)	
Volatile Compound	**Result ***	**Flag**
1,1,2-Trichloro-1,2,2-trifluoroethane	3700	
Acetone	250	J
Methylene chloride	560	
2-Butanone	230	J
1,1,1-Trichloroethane	230	J
Benzene	430	
Trichloroethene	60	J
Methylcyclohexane	120	J
Toluene	8300	
Tetrachloroethene	2100	
2-Hexanone	2200	
Chlorobenzene	300	
Ethylbenzene	12000	
1,1,2-Trichloroethane	350	
o-Xylene	6100	
m,p-Xylene	7500	
Styrene	2800	
Isopropylbenzene	3800	
1,1,2,2-Tetrachloroethane	2300	
1,3-Dichlorobenzene	560	
1,4-Dichlorobenzene	2600	
1,2-Dichlorobenzene	1300	
1,2,4-Trichlorobenzene	4100	
1,2,3-Trichlorobenzene	1400	

* Highest level reported in duplicate pair shown.

Sample Number :	B0013 (Duplicate of B0014)	
Sampling Location :	B7-SED-02 (Duplicate of B7-Sed-03)	
Semivolatile Compound	**Result***	**Flag**
2-Methylphenol	8900	J
4-Chloroaniline	70000	
2-Methylnaphthalene	4200	
Fluoranthene	4400	

* Highest level reported in duplicate pair shown.

Sample Number :	MB0013 (MB0014)	
Sampling Location :	B7-SED-02 (B7-Sed-03) Dup B7-SED-03	
ANALYTE	**Result***	**Flag**
ALUMINUM	4330	
ARSENIC	4.3	
BARIUM	95.5	
CADMIUM	1.4	
CALCIUM	5000	
CHROMIUM	22.2	
COBALT	8.1	
COPPER	53	
IRON	31700	J
LEAD	171	J
MAGNESIUM	3260	
MANGANESE	156	
MERCURY	0.34	J
NICKEL	20.9	
POTASSIUM	285	J
SELENIUM	2.5	J
SILVER	3.2	
SODIUM	296	J
VANADIUM	18	
ZINC	157	J

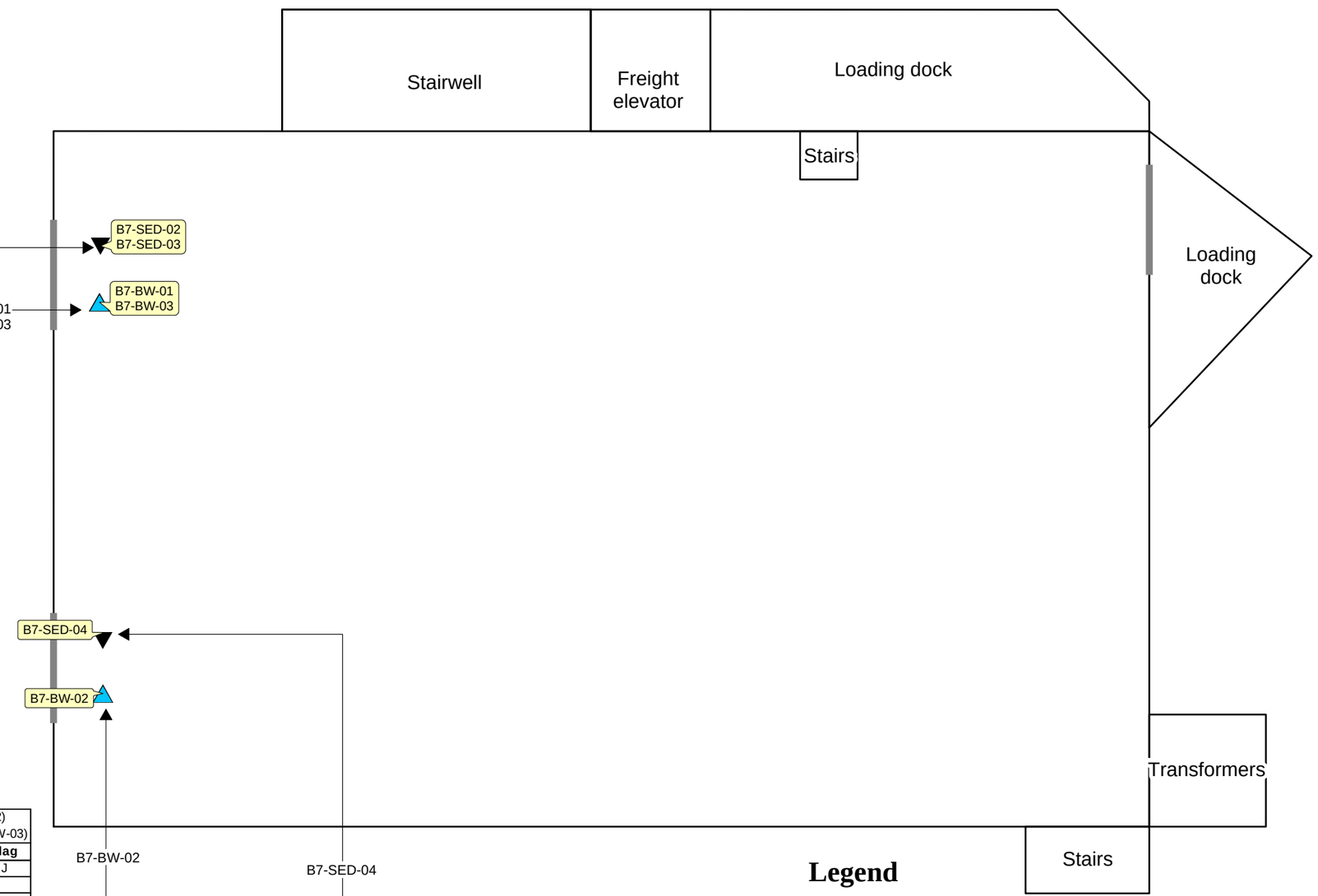
* Highest level reported in duplicate pair shown.

Sample Number :	B0003 (Duplicate of B0012)	
Sampling Location :	B7-BW-01 (Duplicate of B7-BW-03) Dup B7-BW-03	
Semivolatile Compound	**Result***	**Flag**
Phenol	500	
2-Methylphenol	1100	
Acetophenone	61	J
4-Methylphenol	90	J
Nitrobenzene	64	J
2,4-Dimethylphenol	64	J
4-Chloroaniline	24	J
Diethylphthalate	41	J

* Highest level reported in duplicate pair shown.

Sample Number :	B0003 (Duplicate of B0012)	
Sampling Location :	B7-BW-01 (Duplicate of B7-BW-03)	
Volatile Compound	**Result***	**Flag**
1,1-Dichloroethene	6.7	J
Acetone	350	
Methyl acetate	13	
Methylene chloride	240	
1,1-Dichloroethane	150	
2-Butanone	370	
Chloroform	10	
1,1,1-Trichloroethane	190	
Carbon tetrachloride	33	J
Benzene	24	
Trichloroethene	19	
4-Methyl-2-pentanone	55	
Toluene	430	
Tetrachloroethene	7.6	J
Chlorobenzene	2.8	J
Ethylbenzene	390	
o-Xylene	74	
m,p-Xylene	110	
Styrene	40	
Isopropylbenzene	15	
1,4-Dichlorobenzene	4.2	J
1,2-Dichlorobenzene	23	
1,2,4-Trichlorobenzene	55	
1,2,3-Trichlorobenzene	14	

* Highest level reported in duplicate pair shown.



Sample Number :	B0015	
Sampling Location :	B7-SED-04	
Semivolatile Compour	**Result**	**Flag**
Phenol	2200000	
2-Methylphenol	4700000	
Acetophenone	430000	J
4-Methylphenol	1400000	
2,4-Dimethylphenol	430000	J
1,1'-Biphenyl	56000	J
2-Chloronaphthalene	110000	J
Diethylphthalate	240000	J
Bis(2-ethylhexyl)phthalate	230000	J

Sample Number :	B0010	
Sampling Location :	B7-BW-02	
Semivolatile Compound	**Result**	**Flag**
Phenol	13000	
2-Methylphenol	13000	
4-Methylphenol	4700	
2,4-Dimethylphenol	670	J
Diethylphthalate	250	J

Sample Number :	MB0015	
Sampling Location :	B7-SED-04	
ANALYTE	**Result**	**Flag**
ALUMINUM	364	
ARSENIC	0.24	J
BARIUM	34.2	
BERYLLIUM	0.02	J
CADMIUM	0.37	
CALCIUM	1400	
CHROMIUM	3.8	
COBALT	1.3	J
COPPER	58.5	
IRON	7320	
LEAD	26.5	
MAGNESIUM	445	
MANGANESE	60.4	
MERCURY	0.18	
NICKEL	4.6	
VANADIUM	2.6	
ZINC	308	

Legend

- Aqueous sampling location
- Sediment sampling location
- Overhead door

0 5 10 15 20 Feet

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: Asbestos samples analyzed by Polar Light Microscopy (PLM), sampling results (in percent asbestos) are given in parentheses below each sample ID. All organic compound results shown in ug/kg, all inorganic compound results shown in mg/kg.

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 14
Analytical Results, Waste/Asbestos Samples, Building 7, Sub-basement

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on August 31, 2010
by D. Call, Tetra Tech EM Inc.

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The analytical data for the samples collected from the subbasement of Building #12 are summarized in Appendix D, Tables 17 through 27 and the sampling locations and concentrations detected above the analytical quantitation limits are presented on Figure 15.

5.4 RED AND BLUE-COLORED PIGMENT MATERIAL SAMPLING RESULTS

Analytical results for the pigment material samples located on the fourth floor of Building 12 indicate low levels of VOCs including up to 710 µg/kg of acetone, 380 µg/kg of methyl acetate, 300 µg/kg of methylene chloride and 4,300 µg/kg of toluene. SVOCs detected in the pigment material samples include di-n-butylphthalate (1,300 µg/kg) and bis(2-ethylhexyl)phthalate (34,000 µg/kg). Inorganic compounds detected at elevated levels include iron, detected at 102,000 mg/kg and lead detected at 143 mg/kg in B12-PM-01.

Corrosivity and ignitability analysis completed for the two pigment material samples indicated that the samples did not exhibit these characteristics.

The analytical data for the pigment material samples are summarized in Appendix D, Tables 11 through 16 and the sampling locations and concentrations detected above the analytical quantitation limits are presented on Figure 16. The ignitability/corrosivity test results are provided in Attachment 1.

5.5 TAR MATERIAL SAMPLING RESULTS

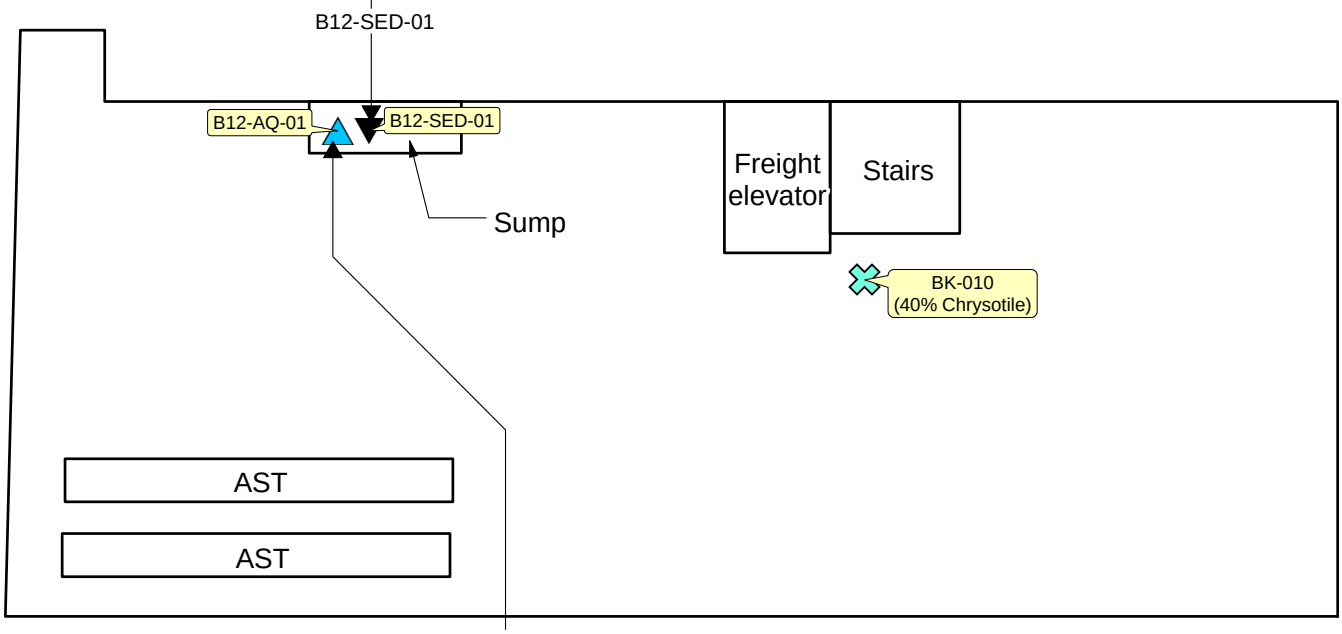
In addition to the samples collected from Buildings #7 and #12, a composite sample of a tar/resin-like material that was observed along the base of the northeast wall of Building #7 (identified as B7-TAR-01) and also leaching from the bank of the Passaic River (identified as Riverbank-1). Analytical results for sample B7-TAR-01 indicated the presence of numerous VOCs including acetone (1,600 µg/kg), methylene chloride (300 µg/kg), 2-butanone (260 µg/kg), methylcyclohexane (700 µg/kg), ethylbenzene (460 µg/kg), o-xylene (2,700 µg/kg), m,p-xylene (2,900 µg/kg), and isopropylbenzene (1,000 µg/kg). This sample also contained numerous VOC TICs. SVOCs reported in this sample include actophenone (83,000 µg/kg), naphthalene (79,000 µg/kg), 2-methylnaphthalene (21,000 µg/kg) and 4,6-dinitro-2-methylphenol (11,000 µg/kg).

VOC analysis was not completed on the sample collected adjacent to the Passaic River (Riverbank-1). No aroclor compounds were detected in this sample. The only inorganic compound reported at an elevated level was lead at 357 mg/kg. Lead was also reported in the TCLP results at 5,910 µg/l which is above the regulatory level of 5,000 µg/l; no other compound

Sample Number :	MB0009	
Sampling Location :	B12-SED-01	
ANALYTE	**Result**	**Flag**
CALCIUM	8.6	J
CHROMIUM	0.08	J
IRON	3.9	J
MERCURY	120	J
SODIUM	5.5	J
CYANIDE	4.7	J

Sample Number :	B0009	
Sampling Location :	B12-SED-01	
Semivolatile Compound	**Result**	**Flag**
2-Methylphenol	7100	J

Sample Number :	B0009	
Sampling Location :	B12-SED-01	
Volatile Compound	**Result**	**Flag**
Methylene chloride	11000	J
m,p-Xylene	5800	J
Bromoform	15000	
1,3-Dichlorobenzene	4400	J
1,2,4-Trichlorobenzene	2600000	
1,2,3-Trichlorobenzene	1300000	



Sample Number :	B0004	
Sampling Location :	B12-AQ-01	
Volatile Compound	**Result**	**Flag**
Acetone	8.7	J
Methylene chloride	13	
1,1,1-Trichloroethane	5.5	
Toluene	1.6	J
m,p-Xylene	0.86	J
1,4-Dichlorobenzene	0.58	J
1,2,4-Trichlorobenzene	1.2	J

Sample Number :	B0004	
Sampling Location :	B12-AQ-01	
Semivolatile Compound	**Result**	**Flag**
Di-n-butylphthalate	0.55	J
Bis(2-ethylhexyl)phthalate	2.1	J

Legend

- Aqueous sampling location
- Sediment sampling location
- Asbestos sampling location

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: Asbestos samples analyzed by Polar Light Microscopy (PLM), sampling results (in percent asbestos) are given in parentheses below each sample ID. All organic compound results shown in ug/kg (solid) and ug/L (aqueous), all inorganic compound results shown in mg/kg.

0 25 50 Feet

Approximate Site Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 15
Analytical Results, Basement Water/Sediment, Building 12, Basement

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on August 31, 2010
by D. Call, Tetra Tech EM Inc.

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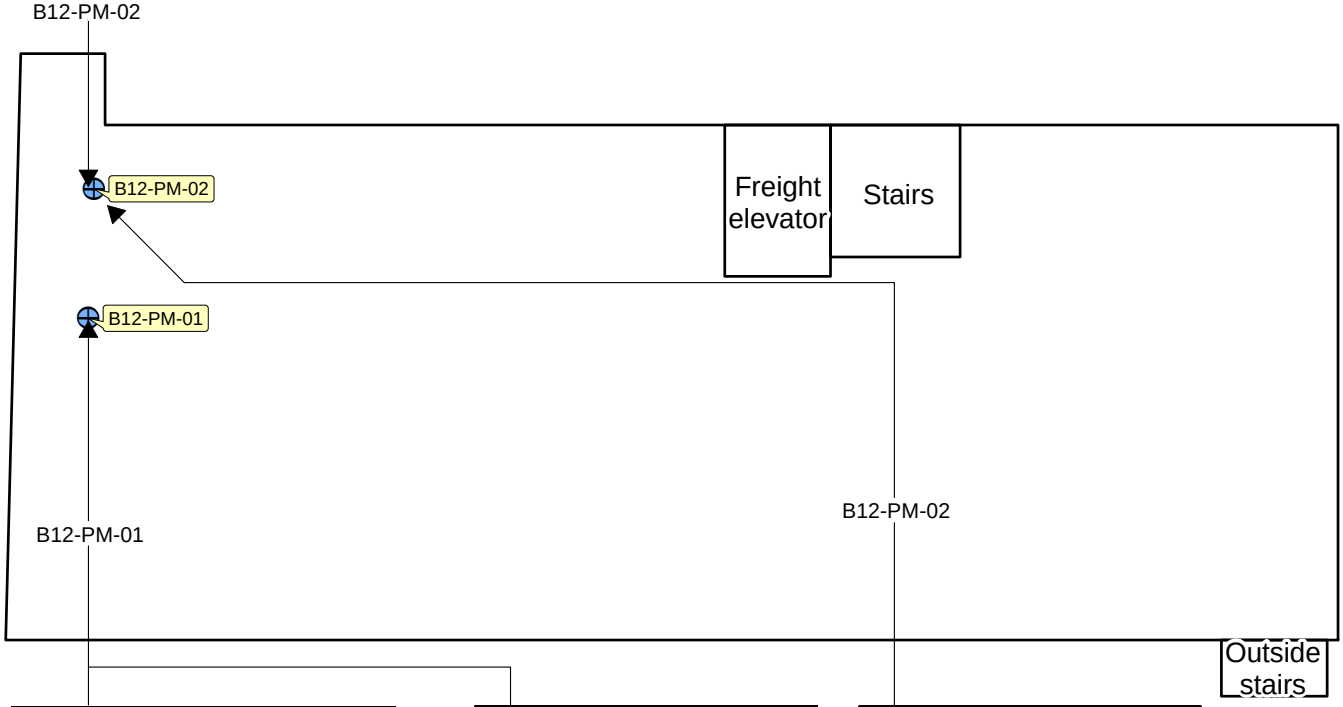
Sample Number :	B0006	
Sampling Location :	B12-PM-02	
Semivolatile Compound	**Result**	**Flag**
Di-n-butylphthalate	1300	J

Sample Number :	B0006	
Sampling Location :	B12-PM-02	
Volatile Compound	**Result**	**Flag**
Acetone	270	J
Methyl acetate	380	
Methylene chloride	210	J
m,p-Xylene	91	J



Sample Number :	B0005	
Sampling Location :	B12-PM-01	
Semivolatile Compound	**Result**	**Flag**
Bis(2-ethylhexyl)phthalate	34000	J

Sample Number :	B0005	
Sampling Location :	B12-PM-01	
Volatile Compound	**Result**	**Flag**
Acetone	710	
Methyl acetate	230	J
Methylene chloride	300	
Toluene	4300	

Sample Number :	MB0005	
Sampling Location :	B12-PM-01	
ANALYTE	**Result**	**Flag**
ALUMINUM	444	
ANTIMONY	1.8	J
ARSENIC	7.2	
BARIUM	86.1	
CADMIUM	3.7	
CALCIUM	33400	J
CHROMIUM	345	J
COBALT	11.7	
COPPER	446	
IRON	102000	J
LEAD	143	J
MAGNESIUM	2580	
MANGANESE	416	J
MERCURY	1.7	J
NICKEL	152	
POTASSIUM	633	
SILVER	7.4	
SODIUM	2760	J
VANADIUM	3.9	J
ZINC	530	J
CYANIDE	3.6	J

Sample Number :	MB0006	
Sampling Location :	B12-PM-02	
ANALYTE	**Result**	**Flag**
ALUMINUM	670	
ANTIMONY	0.57	J
ARSENIC	2.9	
BARIUM	40.6	
CADMIUM	0.98	
CALCIUM	5400	J
CHROMIUM	19.9	J
COBALT	2.1	J
COPPER	9310	
IRON	16000	J
LEAD	30.6	J
MAGNESIUM	3680	
MANGANESE	134	
MERCURY	8.9	J
NICKEL	38.6	
POTASSIUM	9130	
SELENIUM	2.8	J
SILVER	1.7	
SODIUM	3040	J
VANADIUM	2	J
ZINC	188	J

Legend

⊕ Pigment sampling location

Source: Modified from DigitalGlobe aerial photography, September 19, 2009, and from Soil & Groundwater Sampling Plan, Drawing 092976-SP-1, PMK Group, Inc., October 16, 2009.
Note: All organic compound results shown in ug/kg, all inorganic compound results shown in mg/kg.

0 25 50 Feet

Approximate Site Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 16
Analytical Results, Waste Samples, Building 12, 4th Floor

Project number 9004L100178
EPA Contract No. EP-S7-06-01

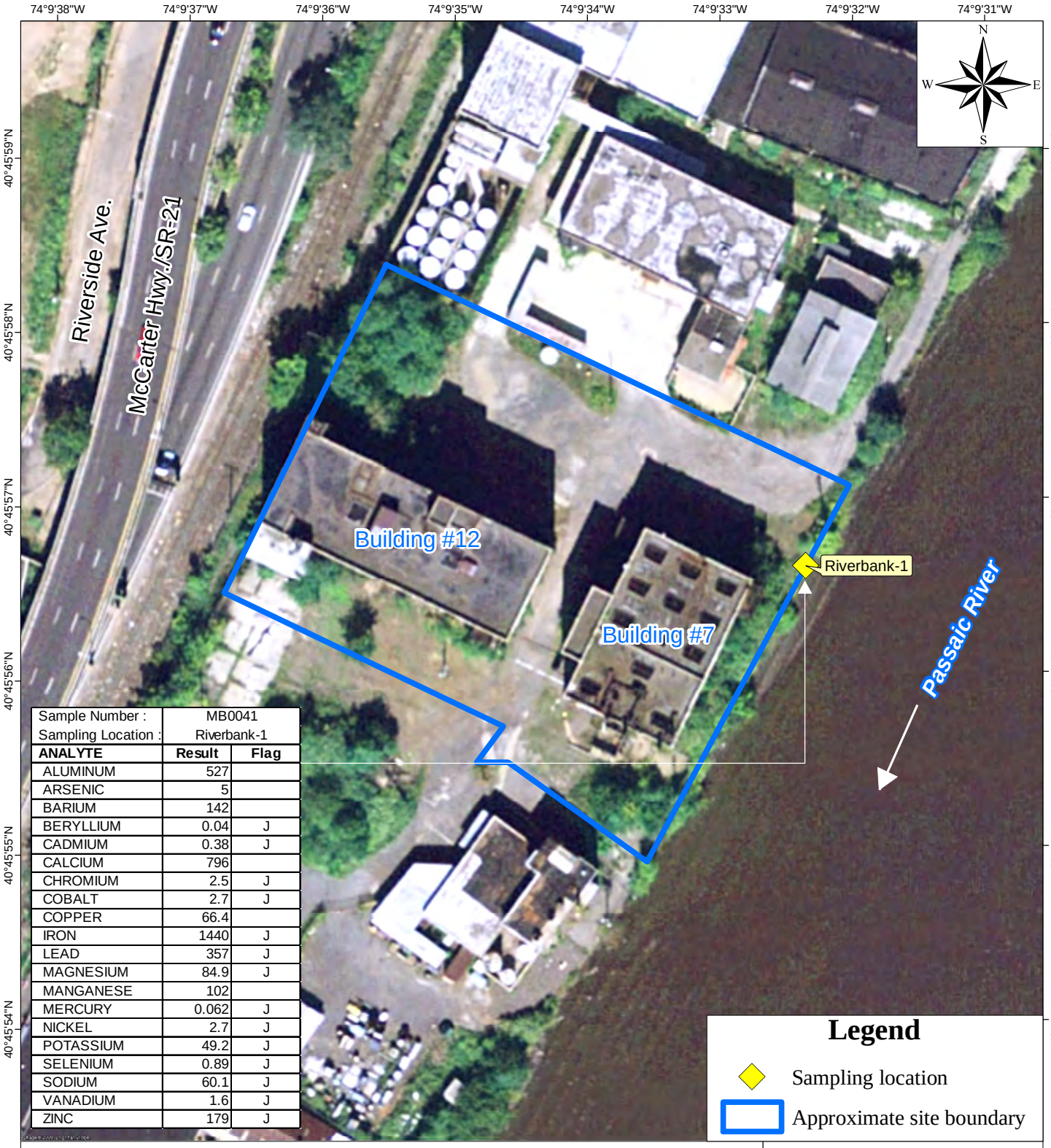
Map created on August 31, 2010
by D. Call, Tetra Tech EM Inc.

TETRA TECH

exceeded the corresponding TCLP regulatory level. The analytical data for B7-TAR-01 and Riverbank-1 are summarized in Tables 28 and 34 and the sampling locations and concentrations detected above the analytical quantitation limits are presented on Figures 12 and 17.

5.6 POTENTIAL ASBESTOS CONTAINING MATERIAL SAMPLING

Analytical results for the 11 bulk samples collected from pipe insulation contained inside and outside of Buildings # 7 and the one bulk sample of pipe insulation in the basement of Building #12 indicated varying amounts of asbestos fibers. The percentage of chrysotile asbestos fibers reported in the four bulk samples collected from the first floor of Building #7 ranged from non-detectable amounts to 70%. Results for the two bulk samples collected from the second floor of Building #7 indicated 10% chrysotile asbestos in one sample and 15% chrysotile and 40% amosite asbestos in the second sample. The four bulk samples collected from the third floor of Building #7 contained between 10% to 70% chryotile asbestos and the one sample collected from the basement of Building #12 contained 40% chryotile asbestos. The locations where the bulk samples were collected are provided in Figures 10 through 12 and Figure 15. The asbestos analytical results report is provided in Attachment 2.



Sample Number :	MB0041	
Sampling Location :	Riverbank-1	
ANALYTE	**Result**	**Flag**
ALUMINUM	527	
ARSENIC	5	
BARIUM	142	
BERYLLIUM	0.04	J
CADMIUM	0.38	J
CALCIUM	796	
CHROMIUM	2.5	J
COBALT	2.7	J
COPPER	66.4	
IRON	1440	J
LEAD	357	J
MAGNESIUM	84.9	J
MANGANESE	102	
MERCURY	0.062	J
NICKEL	2.7	J
POTASSIUM	49.2	J
SELENIUM	0.89	J
SODIUM	60.1	J
VANADIUM	1.6	J
ZINC	179	J

Source: Modified from DigitalGlobe aerial photography, September 19, 2009.
Note: Results shown in millgrams per kilogram (mg/kg).

0 50 100 Feet

Approximate Site Location =

New Jersey

29 Riverside Avenue
Newark, Essex County, New Jersey

Figure 17
Analytical Results, Riverbank Sample

Project number 9004L100178
EPA Contract No. EP-S7-06-01

Map created on September 1, 2010
by D. Call, Tetra Tech EM Inc.

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6.0 SUMMARY

Analytical results reported from samples collected during this assessment indicate the following:

Building #7 Subbasement

- The sediment samples collected from the subbasement contained numerous hazardous substances including VOCs and SVOCs. Specifically, the following VOCs were detected in B7-SED-04: 1,1,2-trichloro-1,2,2-trifluoroethane (27,000 µg/kg), acetone (11,000 µg/kg), methyl acetate (12,000 µg/kg), methylene chloride (220,000 µg/kg), 2-butanone (120,000 µg/kg), chloroform (110,000 µg/kg), 1,1,1-trichloroethane (1,100,000 µg/kg), trichloroethene (5,200 µg/kg), methylcyclohexane (2,900 µg/kg), 4-methyl-2-pentanone (24,000 µg/kg), toluene (230,000 µg/kg), tetrachloroethene (280,000µg/kg), chlorobenzene (2,200 µg/kg), ethylbenzene (58,000 µg/kg), 1,1,2-trichloroethane (91,000 µg/kg), o-xylene (240,000 µg/kg), m,p-xylene (230,000 µg/kg), 1,3-dichlorobenzene (5,000 µg/kg), 1,4- dichlorobenzene (5,800 µg/kg), 1,2-dichlorobenzene (59,000 µg/kg), 1,3-dichlorobenzene (290,000 µg/kg) and 1,2,3-trichlorobenzene (58,000 µg/kg).

- Numerous SVOCs were also detected in B7-SED-04 including: phenol (2,200,000 µg/kg), 2-methylphenol (4,700,000 µg/kg), acetophenone (430,000 µg/kg), 4-methylphenol (1,400,000 µg/kg), 2,4-dimethylphenol (430,000 µg/kg), 1,1-biphenyl (56,000 µg/kg), 2-chloronaphthalene (110,000 µg/kg), diethylphthalate (240,000 µg/kg), and bis(2-ethylhexyl)phthalate (230,000 µg/kg).

Building #7 First Floor

- The 55-gallon drum identified as DS-02 contains a mixture of VOCs including methylene chloride (380 µg/kg), toluene (4,100 µg/kg), ethylbenzene (250,000 µg/kg), o-xylene (390,000 µg/kg), m,p-xylene (710,000 µg/kg) and isopropylbenzene (21,000 µg/kg).

- Asbestos-containing fibers exist in pipe insulation present on the first floor of Building #7.

Building #7 Second Floor

- The 30-gallon carboy where sample B7-CS-03 was collected contained 410 µg/kg of methylene chloride.

- Asbestos-containing fibers exist in pipe insulation present on the second floor of Building #7.

Building #7 Third Floor

- Tanks 14 and 17 contain VOCs including acetone (1,100 µg/kg), xylene (630 µg/kg) and methylene chloride (560 µg/kg).

- VOCs TICs were identified in tanks 5, 9 and 14.

- Analytical results for the composite sample, B7-P-01 collected of the resin-like material present in the third floor tank process lines and pipes also indicated the presence of VOCs including acetone (780 µg/kg), methylcyclohexane (3,200 µg/kg), toluene (3,200 µg/kg), ethylbenzene (150,000 µg/kg), o-xylene (29,000 µg/kg), m,p-xylene (65,000 µg/kg) and isopropylbenzene (7,700 µg/kg).

- Asbestos-containing fibers exist in pipe insulation present on the third floor of Building #7.

Building #12 Basement

- VOCs exist in the sediments located in the basement of Building #12 including methylene chloride (11,000 µg/kg), m.p-xylene (5,800 µg/kg), bromoform (15,000 µg/kg), 1,3-dichlorobenzene (4,400 µg/kg), 1,2,4-trichlorobenzene (2,600,000 µg/kg) and 1,2,3-trichlorobenzene (1,300,000 µg/kg).

- Asbestos-containing fibers exist in pipe insulation present in the basement of Building #12.

Building #12 First Floor

- The 55-gallon drum where sample B12-DS-01 was collected contained VOCs including methylene chloride (32,000 µg/kg) and bromochloromethane (2,300 µg/kg).

- The 55-gallon drum where B12-DS-02 was collected also contained VOCs including acetone (39,000 µg/kg), methyl acetate (11,000 µg/kg), methylene chloride (5,500 µg/kg), methyl tert-butyl ether (3,100 µg/kg) 1,1,1-trichloroethane (2,100 µg/kg), cyclohexane (13,000 µg/kg) and carbon tetrachloride (720 µg/kg).

- The oily sample collected from the pail identified as PS-01 contained acetone (13,000,000 µg/kg) and 2-butanone (67,000 µg/kg).

Building #12 – Fourth Floor Pigment Material

- The pigment material located on the fourth floor of Building #12 contains VOCs and SVOCs including acetone (710 µg/kg), methyl acetate (380 µg/kg), methylene chloride (300 µg/kg) and toluene (4,300 µg/kg). SVOCs detected in the pigment material samples include di-n-butylphthalate (1,300 µg/kg) and bis(2-ethylhexyl)phthalate (34,000 µg/kg). Inorganic compounds detected at elevated levels include iron, detected at 102,000 mg/kg and lead detected at 143 mg/kg in B12-PM-01.

In addition to the interior samples detailed above collected within Buildings #7 and 12, two samples of the tar-like material that was observed leaching from the bank of the Passaic River and at the base of the northeast wall of Building #7 were also sampled. Analytical results for the sample collected from near the wall of Building #7 indicated the presence of numerous VOCs and SVOCs including acetone (1,600 µg/kg), methylene chloride (300 µg/kg), 2-butanone (260 µg/kg), methylcyclohexane (700 µg/kg), ethylbenzene (460 µg/kg), o-xylene (2,700 µg/kg), m,p-xylene (2,900 µg/kg), and isopropylbenzene (1,000 µg/kg), actophenone (83,000 µg/kg), naphthalene (79,000 µg/kg), 2-methylnaphthalene (21,000 µg/kg) and 4,6-dinitro-2-methylphenol (11,000 µg/kg). VOC analysis was not completed on the sample collected adjacent to the Passaic River; however, TCLP analysis of this sample indicated lead at 5,910 µg/l which is above the regulatory level of 5,000 µg/l.

7.0 REFERENCES

Birdsall Services Group Inc./PMK Group, Inc. Draft Site Investigation Report. 1700-1712 & 1702-1716 McCarter Highway. Block 614, Lots 63 and 64. PMK Group #092976. October 16, 2009.

Environmental Protection Agency (EPA). Code of Federal Regulations Title 40, Part 763.86 "Asbestos Sampling" Oct. 30, 1987.

Tetra Tech EM Inc. (Tetra Tech). "Containerized Liquid, Sludge, or Slurry Sampling." SOP No. 008. January 2000a.

Tetra Tech. "Sludge and Sediment Sampling." SOP No. 006. January 2000b.

Tetra Tech. "Recording of Notes in Field Logbooks." SOP No. 024. December 2008a.

Tetra Tech. "Packaging and Shipping Samples." SOP No. 019. December 2008b.

Tetra Tech. "Surface Water Sampling." SOP No. 009. June 2009a.

Tetra Tech. "General Equipment Decontamination." SOP No. 002. Revision No. 3. June 2009b.

Tetra Tech. "Draft Sampling and Analysis Plan for the Riverside Avenue Site" April 22, 2010.

United States Geological Survey. 7.5-Minute Series Topographic Map for Elizabeth, New Jersey, 1981 and Orange, New Jersey, 1981.

Weston Solutions, Inc. Preliminary Assessment Report. 1700-1712 & 1702-1716 McCarter Highway. May 2009

APPENDIX A

FIELD LOG BOOK NOTES

CONTENTS

PAGE	REFERENCE	DATE

Location Newark, NJ Date 6/7/10

Project / Client Riverside Aur. Site / EPA R2

0700 Kevin Scott (KS), Chris Burns (CB) + Steve Morpus (SM) of Tetra Tech (TT) arrive at office + finish loading rented box truck with remaining equipment + supplies not loaded on Friday (6/4).

0730 TT team departs for site in Newark, NJ.

1000 TT Team arrives on site (Kevin Phelan [KP]) already at TT (Rockaway, NJ office) already onsite. KS

Dwayne Harrington (DH) EPA R2 OSC already onsite. KS

KS discusses plan of oper. w/ D.H. KS

TT organizes equipment in box truck in prep for site activities.

Weather: Sunny, clear, breezy 76°F winds NW @ 14 mph Humidity 25%.

Location Newark, NJ Date 6/7/10
Project / Client Riverside Ave Site / EPA R2

1030 Scaffold delivered to site (D+H) rental
TT start personnel assisted with off loading scaffolding + they hauled scaffold to 3rd floor + assembled it. in Building 7. KS

12:15 K.S. + K.P. conduct inventory of drums carboys + pails in buildings 7 + 12.
C.B. + S.M conduct inventory of tanks/VATS on 3rd Floor of Bldg. 7. KS

13:30 TT breaks for lunch

1430 TT personnel return to site after lunch break + continue with tank + drum inventory in building 7. KS

1530 B+H Equip. Rental returned to site w/ 24' step ladder
K.S. + C.B. explore basement of Building 12 - Two 5-10K Gallon tanks observed in basement. Water in Sump (northside)

Location Newark, NJ Date 6/7/10
Project / Client Riverside Ave. Site / EPA R2

1600 TT ~~four~~ continues to inventory tanks in Building 7. (North side) Seventy four (74) tanks inventoried on 3rd floor of Bldg. 7. (Some of these tanks were partitioned into 2 chambers (approx 28). Of these tanks inventoried 4 tanks (14, 18, 52, + 53) had product. All four tanks were partitioned into 2 chambers. And tanks 14, 52, 53 had product in each compartment and tank 18 only had product in one compartment. ~~Com~~ Tank compartments were identified as A + B. TANK 18 had product in compartment B. FOR this Room 7 samples will be collected from the four tanks with product in them

KS
6/7/10

Location Newark, NJ Date 6/7/10
Project / Client Riverside Ave Site / EPA R2

1630 Twenty tanks were inventoried in Building 7 on the 3rd Floor in the South Room. Six (6) tanks had product in them (Tanks 5, 9/10, 17, 18, & 19). Tank 11 had a geotextile fabric (liner) stuffed inside (as trash?)

1705 All TT personnel depart site & head to Sheraton (Newark, NJ) near airport (approx. 6 miles from site).

KS works on ~~Forms~~ setting up Form 2 Lite paperwork

6/7/10 South

Location Newark, NJ Date 6/8/10
Project / Client Riverside Ave Site / EPA R2

0700 KS, C.B. & S.M (TT) Depart Hotel for Site

0730 KS & C.B. Stop at convenience store to get ice.

0745 TT onsite & begin preparing for sample collection.
Weather: Partly cloudy warm, breezy. Temps in 70s°F Hi: 75°F Lo: 59°F Winds NW @ 20 mph Humidity: 21%
KS

S.M arrived at site prior to KS & C.B.; K.P. already on site at about 7:15. D.H (EPA) onsite. K.S. & K.P. prep for Drum Sampling (KS) in Bldg. 12. C.B. + S.M prep for tank sampling (B7)

0915 K.S. & K.P. collect two Drum Samples of charcoal from two closed metal 55-gal drums on first floor. Samples (KS)

0920 also collected sample from 5 gallon pail of oily liquid. Samples collected in Level C PPE. ~~Sam~~ (KS) Drum & pail sample collected for TCL VOC

Location: Newark NJ Date 6/8/10
Project / Client Riverside Ave Site / EPA R2

TCL SVOC, PEST, PCB, TCLP metals
TAL metals, TCLP VOAs, SVOCs,
PEST + Herb. Drum contents
placed in 6 8-oz CWM glass
jars + 2 - 4-oz CWM glass
JARS W/ SEPTA LIDS.
(SAME for Part sample.
C.B. + S.M. start collecting
samples from tanks / VATS
in Bldg. 7. KS

0940-0955 KS + KP collect 1 Aqueous
+ 1 sediment sample from
basement sump in building 12.
4 1-liter amber jars + 3 40ml
VOA vials filled with sump
water for analysis for
TCL VOCs, SVOCs PEST / PCBs.
2 8-oz CWM glass jars + 2
4-oz CWM glass jars with SEPTA
lids filled with sediment
collected from sump.
Analysis for sed includes
TCL VOAs TAL metals + CN

KS

Location Newark NJ Date 6/8/10
Project / Client Riverside Ave Site / EPA R2

1005 KS collects sample of red
+ blue pigment material
beneath suspended funnel
tanks on fourth floor of
Bldg. 12. Samples of each
Pigment placed in 2 8-oz
CWM glass jars + 2 4-oz
CWM glass jars w/ SEPTA LIDS
Pigment collected from spilled
material on floor - Pigment
mixed w/ bird droppings.
Samples of pigment to be
sent to lab for analysis for
TCL VOCs, SVOCs, Pest/PCBs, TAL
metals + CN^-

EPA R2 OSC DAVID ROSOFF ONSITE
KS + C.B tour site w/ DAVID
R who identifies ~~Asbestos~~
sampling locations (10 in Bldg 7
1 on ground outside Bldg. 7
+ 1 in basement of Bldg. 12.
(12 total samples for analysis
for PCM.

Scott 6/8/10

Location Newark, NJ Date 6/8/10
Project / Client Riverside Ave Site / EPA R2

David Rosoff also requested that a sample of the material in the pipes (piping at the tanks & vats) be collected for analysis (maybe reduced suite of analyses depending on volume of sample Tt is able to attain. EPA & Tt personnel locate discharge pipe protruding from river bank wall at the Passaic R. east of Bldg. 7. ODOR of parathion detected in air. EPA requested that Tt also collect a sample of the tar-like/asphalt-like substance that is oozing/leaching from bank wall at Passaic R. EPA would also like Tt to collect a sample of the black tar like substance that is oozing from bottom of North face of Bldg 7, + tar/resin-like substance that is coating

Location Newark, NJ Date 6/8/10
Project / Client Riverside Ave. Site / EPA R2

the piping ~~found~~ on the pipes on the north face of Bldg 7 inside basement/1st floor level.

1115 KS + KP collect aqueous sample from sub-basement from manhole entrance at South end of Bldg 7. Sludge-judge used to obtain sample 3 40ml vials, 4 1-liter Ambers filled for TCL VOCs, SVOCs Pest. + PCBs. Sample ID: B7-BW-01 Duplicate collected at this location Duplicate ID: B7-BW-03 (time of 11:20 used for Dup.

1145 KS + KP collect sediment sample at same location as BW-01 Sludge judge ineffective Tt. engineered sediment collection device from sample jar and metal pole 2 8-oz. CWM glass jars + 2-4-oz CWM glass jars w/ SEPTA VOCs filled Analyses include TCL VOCs, SVOCs

Location Newark, NJ Date 6/8/10
Project / Client Riverside Ave. Site / EPA R2

Pest/PCBs; TAL Metals + CN, Duplicate, sample collected Sediment
@ same location. Duplicate Sediment Pair IDs
B7-SED-02 + B7-SED-03.
1215 TT (KS+KP) collect Aqueous + sediment samples from ~~sub~~ basement in EAST Garage bay of Bldg 7. -
SAME PARAMETERS + sampled as prev. Aq + sed samples
Sample IDs: Aq = B7-BW-02 (BW = Basement water); SED = B7-SED-04 (SED sample collected at 12:30 pm.) odor of Phenol or Aniline detected in air after sediment sample from this manhole was collected. reddish-brown oily sludge (sed-04) as compared to Black, gritty oily sediment at location BW-01 / SED-02.

Scott

Location Newark, NJ Date 6/8/10
Project / Client Riverside Ave. Site / EPA R2

TT Team of C.B. + S.M continue to collect samples from tanks / UATS in Bldg. 7 (3rd floor
1330 TT personnel break for lunch
1415 TT personnel return to sampling activities.
1430 KS collects sample of ~~Asbestos like~~ tar / resin like material from piping in north side of 1st floor of Bldg 7
K.P. collects tar like substance from out building 7 (north wall as base.
1435 KS collects Asbestos-like material (white solid) from outside west garage bay Door of Bldg 7. (south side) + fiberglass like material around exterior pipe
KP, CB, + S.M collecting samples from tanks / UATS + piping from 2nd + 3rd floors of Bldg. 7.

Scott

Location Newark, NJ Date 6/9/10
Project / Client Riverside Ave. Site / EPA R2

1520 KS retrieves chunk of black tar/asphalt like material that David Rosoff retrieved from bank of Passaic R.
1530 Tt personnel finished up w/ Tank/vat/pipe material sample collection and re-organized truck in preparation to depart site.
1630 Tt personnel off site.
LATE ENTRY.
EPA REAC/SERAS CONTRACTOR on site w/ DAVID ROSOFF to conduct geophysical survey.
1700 Tt personnel arrive at hotel (Sheraton - Newark)
KS begins entering sample info into Forms 2 Lite Software.

6/9/10

Location Newark, NJ Date 6/9/10
Project / Client Riverside Ave. Site / EPA R2

0645 Tt personnel K.S. C.B. + S.M. check out of hotel + Depart for site
0700 K.S. + C.B. stop at convenience store to purchase more ice for preserving samples
0730 KS + C.B. & S.M. + K.P. on site + begin preparing for sampling activities (Asbestos + 8 drum, carboy/pail samples in Bldg 7 (Floors 1 & 2)
Weather: cloudy, temps 55°F Winds SE 4 mph humidity: 44% Expected hi: 69°F showers possible
0800 Field blank prepared (RAS-FB-01.
KS continue updating Forms II Lite (Chain of Custody Record) while KP collects drum + pail samples from Bldg 7. C.B. + S.M. begin collecting samples of potential ACM from pipe wrapping in Bldg 7, using

Location Newark, NJ Date 6/9/10

Project / Client Riverside Ave Site (EPA R2

glove bags. TT personnel take photographs of samples / sampling activities

1130 Raining lightly KS

1200 TT break for lunch

1300 TT personnel begin breaking down scaffolding material + staging it on loading dock of bldg 7.

1400 D + H Rental Equipment on-site to retrieve scaffolding + extention ladder (used to get into basement of building 12). KS

KS + KP collect remaining drum + carboy sampler from first level of bldg 7. 30 Gallon carboy near stairway entrance 37-05-01 had less than 1" of product in it and sample could not be obtained.

1500 All personnel off site. TT personnel return to respective offices.

K. Scott
6/9/10

Location Date

Project / Client

APPENDIX B

PHOTO DOCUMENTATION LOG

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 1

Photograph Date: March 18, 2010

Description: View of loading dock and northwest corner of Building #7.

Photo orientation: Facing south

Photograph No. 2

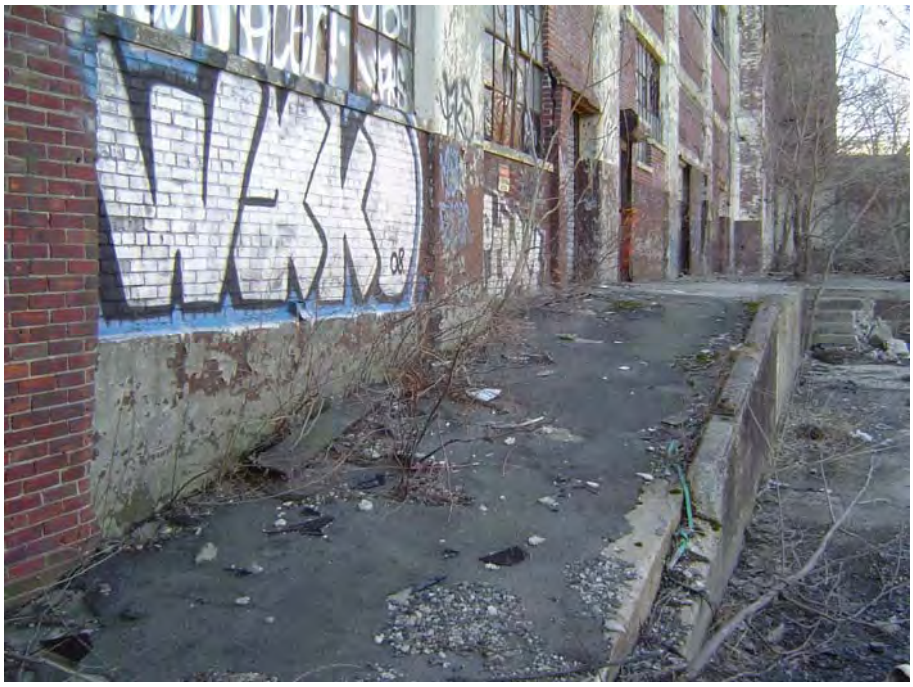
Photograph Date: March 18, 2010

Description: View of southern side of Building #7.

Photo orientation: Facing north

Photograph No. 3

Photograph Date: March 18, 2010



Description: View of ramp/loading dock area of Building #12.

Photo orientation: Facing east.

Photograph No. 4

Photograph Date: March 18, 2010

Description: View of southern side of Building 12.

Photo orientation: Facing northwest.

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 5

Photograph Date: March 26, 2010

Description: View of former paint and varnish tanks on third floor of Building #7 (north room).

Photo orientation: Facing east southeast.

Photograph No. 6

Photograph Date: June 21, 2010

Description: View of former paint and varnish tanks on third floor of Building #7 (north room).

Photo orientation: Facing northeast.

Photograph No. 7

Photograph Date: March 26, 2010

Description: View of former paint and varnish tanks on third floor of Building #7 (south room).

Photo orientation: Facing east, southeast.

Photograph No. 8

Photograph Date: March 26, 2010

Description: View of former paint and varnish tanks on second floor of Building #7 (south room).

Photo orientation: Facing west.

Photograph No. 9

Photograph Date: April 7, 2010

Description: View of drums on first floor of Building #12.

Photo orientation: Facing west.

Photograph No. 10

Photograph Date: April 7, 2010

Description: View of drums and containers on first floor of Building #12.

Photo orientation: Facing west, northwest.

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 11

Photograph Date: June 8, 2010

Description: View of Tetra Tech personnel inspecting paint and varnish tanks on third floor of Building #7.

Photo orientation: Facing northeast

Photograph No. 12

Photograph Date: June 8, 2010

Description: View of Tetra Tech personnel collecting sample from paint or varnish tank on third floor of Building #7.

Photo orientation: Facing northeast

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 13

Photograph Date: June 9, 2010

Description: View of Tetra Tech personnel using a glove bag to collect a sample of pipe insulation from a pipe on the second floor of Building #7. The insulation is thought to contain asbestos.

Photograph No. 14

Photograph Date: June 9, 2010

Description: View of Tetra Tech personnel using a glove bag to collect a sample of pipe insulation from a pipe on the first floor of Building #7. The insulation is thought to contain asbestos.

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 15

Photograph Date: April 9, 2010

Description: View of Tetra Tech personnel collecting a sample from a drum on the first floor of Building #7.

Photo orientation: Facing east southeast.

Photograph No. 16

Photograph Date: June 8, 2010

Description: View of manhole leading into subbasement of Building #7 (garage bay, south west side). Also location of samples B7-BW-01, B7-BW-03. B7-SED-02 and BW-SED-03.

Photo orientation: Facing south southwest.

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 17

Photograph Date: June 8, 2010

Description: View of manhole leading into subbasement of Building #7 (garage bay, south west side). Also location of samples B7-BW-01, B7-BW-03. B7-SED-02, and BW-SED-03.

Photograph No. 18

Photograph Date: June 8, 2010

Description: View of manhole leading into subbasement of Building #7 (garage bay, south east side). Also location of samples B7-BW-02, and BW-SED-04.

Site Name: Riverside Avenue Site
Location: Newark, NJ

Prepared by: Tetra Tech EM Inc.
Photographer: Kevin Scott

Photograph No. 19

Photograph Date: April 7, 2010

Description: View of colored pigment material on fourth floor of Building #12. Also location of samples B12-PM-01 and B12-PM-02.

Photo orientation: Facing west, northwest.

Photograph No. 20

Photograph Date: April 9, 2010

Description: View of Tetra Tech personnel collecting a sample from a 5-gallon pail on the first floor of Building #7. (Sample B7-PS-01)

APPENDIX C

TRAFFIC REPORTS AND CHAIN-OF-CUSTODY RECORDS

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

Case No: 40200 **R**
DAS No:

Region:	2	Date Shipped:	6/10/2010	**Chain of Custody Record**	Sampler Signature: K Scott
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	8731 0479 8313	1 K Scott 6/10/10 1800	
CERCLIS ID:	NJSFN0204232	Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	2	
Spill ID:	PC			3	
Site Name/State:	Riverside Avenue/NJ			4	
Project Leader:	Kevin Scott				
Action:	Removal Action				
Sampling Co:	Tetra Tech				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B0002	Waste/ Kevin Scott	H/C	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	156 (Ice Only), 185 (Ice Only), 580 (Not preserved), 581, 582 (5)	B12-DS-02	S: 6/8/2010	9:15	MB0002	--
B0003	Surface Water/ Kevin Scott	M/G	BNA/PEST (14), VOA (14)	117 (Ice Only), 118 (Ice Only), 119 (Ice Only), 120 (Ice Only), 121 (HCL), 122 (HCL), 123 (HCL) (7)	B7-BW-01	S: 6/8/2010	11:15		Dup of B7-BW-03
B0004	Surface Water/ Kevin Scott	M/G	BNA/PEST (14), VOA (14)	126 (Ice Only), 127 (Ice Only), 128 (Ice Only), 129 (Ice Only), 130 (HCL), 131 (HCL), 132 (HCL) (7)	B12-AQ-01	S: 6/8/2010	9:40		--
B0005	Waste/ Kevin Scott	H/G	BNA/PEST (14), VOA (14)	139 (Ice Only), 140 (Ice Only), 176 (Ice Only) (3)	B12-PM-01	S: 6/8/2010	10:05	MB0005	--
B0006	Waste/ Kevin Scott	H/G	BNA/PEST (14), VOA (14)	143 (Ice Only), 144 (Ice Only), 175 (Ice Only) (3)	B12-PM-02	S: 6/8/2010	10:10	MB0006	--
B0007	Oil(High only)/ Kevin Scott	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	147 (Ice Only), 186 (Ice Only), 565 (Not preserved), 566, 567 (5)	B12-PS-01	S: 6/8/2010	9:20	MB0007	--
B0008	Waste/ Kevin Scott	H/C	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	159 (Ice Only), 184 (Ice Only), 570 (Not preserved), 571, 572 (5)	B12-DS-01	S: 6/8/2010	9:15	MB0008	--

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? _____

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PCBS = PCBs(AROCLORS), T-PestHerb = TCLP Pesticide/Herbicide, T_SEMI = TCLP Semivolatiles, T_VOAS = TCLP Volatiles, VOA = CLP TCL Volatiles

TR Number: 2-232373826-061010-0010

REGION COPY

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

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

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/10/2010
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8731 0479 8313
CERCLIS ID:	NJSFN0204232	Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Spill ID:	PC		
Site Name/State:	Riverside Avenue/NJ		
Project Leader:	Kevin Scott		
Action:	Removal Action		
Sampling Co:	Tetra Tech		

Chain of Custody Record

Sampler Signature: K Scott

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 K Scott	6/10/10 1800		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B0009	Sediment/ Kevin Scott	H/G	BNA/PEST (14), PCBS (14), VOA (14)	179 (Ice Only), 181 (Ice Only), 182 (Ice Only), 187 (Ice Only) (4)	B12-SED-01	S: 6/8/2010	9:45	MB0009	--
B0010	Surface Water/ Kevin Scott	M/G	BNA/PEST (14), VOA (14)	188 (HCL), 189 (HCL), 190 (HCL), 191 (Ice Only), 192 (Ice Only), 193 (Ice Only), 194 (Ice Only) (7)	B7-BW-02	S: 6/8/2010	12:15		--
B0012	Surface Water/ Kevin Scott	M/G	BNA/PEST (14), VOA (14)	203 (Ice Only), 204 (Ice Only), 205 (Ice Only), 206 (Ice Only), 207 (HCL), 208 (HCL), 209 (HCL) (7)	B7-BW-03	S: 6/8/2010	11:20		Dup of B7-BW-01
B0013	Sediment/Sludge/ Kevin Scott	H/G	BNA/PEST (14), PCBS (14), VOA (14)	211 (Ice Only), 212 (Ice Only), 213 (Ice Only) (3)	B7-SED-02	S: 6/8/2010	11:45	MB0013	Dup of B7-SED-03
B0014	Sediment/Sludge/ Kevin Scott	H/G	BNA/PEST (14), PCBS (14), VOA (14)	215 (Ice Only), 216 (Ice Only), 217 (Ice Only) (3)	B7-SED-03	S: 6/8/2010	11:50	MB0014	Dup of B7-SED-02
B0015	Sediment/Sludge/ Kevin Scott	H/G	BNA/PEST (14), PCBS (14), VOA (14)	219 (Ice Only), 220 (Ice Only), 221 (Ice Only) (3)	B7-SED-04	S: 6/8/2010	12:30	MB0015	--
B0016	Waste(High only)/ Kevin Scott	H/G	BNA/PEST (14), VOA (14)	222 (Ice Only), 223 (Ice Only) (2)	B7-TAR-01	S: 6/8/2010	14:45		--
B0017	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	226 (Ice Only), 463 (Not preserved), 465 (Not preserved), 466, 467 (5)	RAS-B7-TM-05	S: 6/8/2010	13:15	MB0017	--

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? _____

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PCBS = PCBs(AROCLORS), T-PestHerb = TCLP Pesticide/Herbicide, T_SEMI = TCLP Semivolatiles, T_VOAS = TCLP Volatiles, VOA = CLP TCL Volatiles

TR Number: 2-232373826-061010-0010

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/10/2010
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8731 0479 8313
CERCLIS ID:	NJSFN0204232	Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Spill ID:	PC		
Site Name/State:	Riverside Avenue/NJ		
Project Leader:	Kevin Scott		
Action:	Removal Action		
Sampling Co:	Tetra Tech		

Chain of Custody Record

Sampler Signature: K Scott

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 K Scott	6/10/10		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B0018	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	234 (Ice Only), 235 (Ice Only), 530 (Not preserved), 531, 532 (5)	RAS-B7-TM-09	S: 6/8/2010	13:34	MB0018	Dup. of RAS-B7-TM-10
B0019	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	242 (Ice Only), 243 (Ice Only), 470 (Not preserved), 471, 472 (5)	RAS-B7-TM-09-2S	S: 6/8/2010	14:30	MB0019	--
B0020	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	250 (Ice Only), 251 (Ice Only), 475 (Not preserved), 476, 477 (5)	RAS-B7-TM-10	S: 6/8/2010	13:30	MB0020	Dup of RAS-B7-TM-09
B0021	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	258 (Ice Only), 259 (Ice Only), 480 (Not preserved), 481, 482 (5)	RAS-B7-TM-14A	S: 6/8/2010	9:50	MB0021	--
B0022	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	266 (Ice Only), 267 (Ice Only), 485 (Not preserved), 486, 487 (5)	RAS-B7-TM-14B	S: 6/8/2010	10:05	MB0022	--
B0023	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	274 (Ice Only), 275 (Ice Only), 490 (Not preserved), 491, 492 (5)	RAS-B7-TM-17	S: 6/8/2010	12:15	MB0023	--

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? _____

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PCBS = PCBs(AROCLORS), T-PestHerb = TCLP Pesticide/Herbicide, T_SEMI = TCLP Semivolatiles, T_VOAS = TCLP Volatiles, VOA = CLP TCL Volatiles

TR Number: 2-232373826-061010-0010

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/10/2010
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8731 0479 8313
CERCLIS ID:	NJSFN0204232	Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Spill ID:	PC		
Site Name/State:	Riverside Avenue/NJ		
Project Leader:	Kevin Scott		
Action:	Removal Action		
Sampling Co:	Tetra Tech		

Chain of Custody Record

Sampler Signature: K Scott

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 K Scott	6/10 1800		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B0024	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	282 (Ice Only), 283 (Ice Only), 495 (Not preserved), 496, 497 (5)	RAS-B7-TM-18	S: 6/8/2010	12:30	MB0024	--
B0025	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	290 (Ice Only), 291 (Ice Only), 500 (Not preserved), 501, 502 (5)	RAS-B7-TM-19	S: 6/8/2010	12:45	MB0025	--
B0029	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	322 (Ice Only), 323 (Ice Only), 520 (Not preserved), 521, 522 (5)	RAS-B7-TM-53A	S: 6/8/2010	11:00	MB0029	--
B0030	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	330 (Ice Only), 331 (Ice Only), 525 (Not preserved), 526, 527 (5)	RAS-B7-TM-53B	S: 6/8/2010	11:15	MB0030	--
B0031	Field QC/ Chris Burns	L/G	BNA/PEST (14), VOA (14)	336 (HCL), 337 (HCL), 338 (HCL), 348 (Ice Only), 349 (Ice Only), 350 (Ice Only), 351 (Ice Only) (7)	RAS-FB-01	S: 6/9/2010	8:12		Lab QC
B0033	Field QC/ Chris Burns	L/G	VOA (14)	340 (HCL), 341 (HCL), 342 (HCL) (3)	RAS-TB-01	S: 6/9/2010	8:07		Trip Blank

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? _____

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PCBS = PCBs(AROCLORS), T-PestHerb = TCLP Pesticide/Herbicide, T_SEMI = TCLP Semivolatiles, T_VOAS = TCLP Volatiles, VOA = CLP TCL Volatiles

TR Number: 2-232373826-061010-0010

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/10/2010
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8731 0479 8313
CERCLIS ID:	NJSFN0204232	Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Spill ID:	PC		
Site Name/State:	Riverside Avenue/NJ		
Project Leader:	Kevin Scott		
Action:	Removal Action		
Sampling Co:	Tetra Tech		

Chain of Custody Record

Sampler Signature: K Scott

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 K Scott	6/10/10 1800		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B0034	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	354 (Ice Only), 355 (Ice Only), 560 (Not preserved), 561, 562 (5)	B7-CS-03	S: 6/9/2010	9:56	MB0034	--
B0035	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	362 (Ice Only), 363 (Ice Only), 555 (Not preserved), 556, 557 (5)	B7-DS-01	S: 6/9/2010	9:40	MB0035	--
B0036	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	370 (Ice Only), 371 (Ice Only), 540 (Not preserved), 541, 542 (5)	B7-PS-02	S: 6/9/2010	10:33	MB0036	--
B0037	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	378 (Ice Only), 379 (Ice Only), 535 (Not preserved), 536, 537 (5)	B7-PS-01	S: 6/9/2010	11:04	MB0037	--
B0040	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	400 (Ice Only), 401 (Ice Only), 402 (Ice Only), 403 (Ice Only), 550 (Not preserved), 551, 552 (7)	B7-DS-02	S: 6/9/2010	14:09	MB0040	--

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? _____

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PCBS = PCBs(AROCLORS), T-PestHerb = TCLP Pesticide/Herbicide, T_SEMI = TCLP Semivolatiles, T_VOAS = TCLP Volatiles, VOA = CLP TCL Volatiles

TR Number: 2-232373826-061010-0010

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/10/2010
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8731 0479 8313
CERCLIS ID:	NJSFN0204232	Shipped to:	A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Spill ID:	PC		
Site Name/State:	Riverside Avenue/NJ		
Project Leader:	Kevin Scott		
Action:	Removal Action		
Sampling Co:	Tetra Tech		

Chain of Custody Record

Sampler Signature: K Scott

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 K Scott	6/10/10 1800		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B0041	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	414 (Ice Only), 415 (Ice Only), 416 (Ice Only), 417 (Ice Only), 583 (Not preserved), 584 (Not preserved), 587, 588, 589, 590 (10)	Riverbank-1✓	S: 6/9/2010	14:00	MB0041	--
B0042	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	440 (Ice Only), 441 (Ice Only), 545 (Not preserved), 546, 547 (5)	B7-PS-03	S: 6/9/2010	11:54	MB0042	--
B0043	Waste/ Kevin Phelan	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	450 (Ice Only), 451 (Ice Only), 575 (Not preserved), 576, 577 (5)	B7-CS-02	S: 6/9/2010	11:27	MB0043	--
B0044	Waste/ Chris Burns	H/G	PCBS (14), T-PestHerb (14), T_SEMI (14), T_VOAS (14), VOA (14)	593, 596 (Not preserved), 597, 598, 599 (Not preserved) (5)	B7-P-01	S: 6/9/2010	15:15	MB0044	--

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? _____

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PCBS = PCBs(AROCLORS), T-PestHerb = TCLP Pesticide/Herbicide, T_SEMI = TCLP Semivolatiles, T_VOAS = TCLP Volatiles, VOA = CLP TCL Volatiles

TR Number: 2-232373826-061010-0010

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/11/2010	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:		1 6/11/10 1400	
CERCLIS ID:	NJSFN0204232	Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854	2	
Spill ID:	PC			3	
Site Name/State:	Riverside Avenue/NJ			4	
Project Leader:	Kevin Scott				
Action:	Removal Action				
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
MB0002	Waste/ Kevin Scott	H/C	T_MET (14), TM/CN (14)	108 (Ice Only), 579 (2)	B12-DS-02	S: 6/8/2010	9:15	B0002	--
MB0005	Waste/ Kevin Scott	H/G	TM/CN (14)	137 (Ice Only) (1)	B12-PM-01	S: 6/8/2010	10:05	B0005	--
MB0006	Waste/ Kevin Scott	H/G	TM/CN (14)	141 (Ice Only) (1)	B12-PM-02	S: 6/8/2010	10:10	B0006	--
MB0007	Oil(High only)/ Kevin Scott	H/G	T_MET (14), TM/CN (14)	145 (Ice Only), 564 (2)	B12-PS-01	S: 6/8/2010	9:20	B0007	--
MB0008	Waste/ Kevin Scott	H/C	T_MET (14), TM/CN (14)	157 (Ice Only), 569 (2)	B12-DS-01	S: 6/8/2010	9:15	B0008	--
MB0009	Sediment/ Kevin Scott	H/G	TM/CN (14)	178 (Ice Only) (1)	B12-SED-01	S: 6/8/2010	9:45	B0009	--
MB0013	Sediment/Sludge/ Kevin Scott	H/G	TM/CN (14)	210 (Ice Only) (1)	B7-SED-02	S: 6/8/2010	11:45	B0013	Dup of B7-SED-03
MB0014	Sediment/Sludge/ Kevin Scott	H/G	TM/CN (14)	214 (Ice Only) (1)	B7-SED-03	S: 6/8/2010	11:50	B0014	Dup of B7-SED-02
MB0015	Sediment/Sludge/ Kevin Scott	H/G	TM/CN (14)	218 (Ice Only) (1)	B7-SED-04	S: 6/8/2010	12:30	B0015	--
MB0017	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	224 (Ice Only), 464 (2)	RAS-B7-TM-05	S: 6/8/2010	13:15	B0017	--

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? _____
T_MET = TCLP Metals, TM/CN = CLP TAL Total Metals and Cyanide			

TR Number: 2-232373826-061010-0012

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

Case No: 40200
DAS No:
R

Region:	2	Date Shipped:	6/11/2010	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:		1 6/11/10 1400	
CERCLIS ID:	NJSFN0204232	Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854	2	
Spill ID:	PC			3	
Site Name/State:	Riverside Avenue/NJ			4	
Project Leader:	Kevin Scott				
Action:	Removal Action				
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
MB0018	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	232 (Ice Only), 529 (2)	RAS-B7-TM-09	S: 6/8/2010	13:34	B0018	Dup. of RAS-B7-TM-10
MB0019	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	240 (Ice Only), 469 (2)	RAS-B7-TM-09-2S	S: 6/8/2010	14:30	B0019	--
MB0020	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	248 (Ice Only), 474 (2)	RAS-B7-TM-10	S: 6/8/2010	13:30	B0020	Dup of RAS-B7-TM-09
MB0021	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	256 (Ice Only), 479 (2)	RAS-B7-TM-14A	S: 6/8/2010	9:50	B0021	--
MB0022	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	264 (Ice Only), 484 (2)	RAS-B7-TM-14B	S: 6/8/2010	10:05	B0022	--
MB0023	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	272 (Ice Only), 489 (2)	RAS-B7-TM-17	S: 6/8/2010	12:15	B0023	--
MB0024	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	280 (Ice Only), 494 (2)	RAS-B7-TM-18	S: 6/8/2010	12:30	B0024	--
MB0025	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	288 (Ice Only), 499 (2)	RAS-B7-TM-19	S: 6/8/2010	12:45	B0025	--
MB0029	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	320 (Ice Only), 519 (2)	RAS-B7-TM-53A	S: 6/8/2010	11:00	B0029	--
MB0030	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	328 (Ice Only), 524 (2)	RAS-B7-TM-53B	S: 6/8/2010	11:15	B0030	--
MB0034	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	352 (Ice Only), 559 (2)	B7-CS-03	S: 6/9/2010	9:56	B0034	--

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? _____

T_MET = TCLP Metals, TM/CN = CLP TAL Total Metals and Cyanide

TR Number: 2-232373826-061010-0012

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

Case No: 40200
DAS No:
R

Region: 2	Date Shipped: 6/11/2010	Chain of Custody Record	Sampler Signature: K Scott
Project Code:	Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 K Scott 6/11/10 1400	
CERCLIS ID: NJSFN0204232	Shipped to: Bonner Analytical Testing Company, 2703 Oak Grove Rd, Hattiesburg MS 39402, (601) 264-2854	2	
Spill ID: PC		3	
Site Name/State: Riverside Avenue/NJ		4	
Project Leader: Kevin Scott			
Action: Removal Action			
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
MB0035	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	360 (Ice Only), 554 (2)	B7-DS-01	S: 6/9/2010	9:40	B0035	--
MB0036	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	368 (Ice Only), 539 (2)	B7-PS-02	S: 6/9/2010	10:33	B0036	--
MB0037	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	376 (Ice Only), 534 (2)	B7-PS-01	S: 6/9/2010	11:04	B0037	--
MB0040	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	398 (Ice Only), 399 (Ice Only), 549 (3)	B7-DS-02	S: 6/9/2010	14:09	B0040	--
MB0041	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	436 (Ice Only), 437 (Ice Only), 585, 586 (4)	Riverbank-1	S: 6/9/2010	14:00	B0041	--
MB0042	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	438 (Ice Only), 544 (2)	B7-PS-03	S: 6/9/2010	11:54	B0042	--
MB0043	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	448 (Ice Only), 574 (2)	B7-CS-02	S: 6/9/2010	11:27	B0043	--
MB0044	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	591, 595 (2)	B7-P-01	S: 6/9/2010	15:15	B0044	--

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? _____
T_MET = TCLP Metals, TM/CN = CLP TAL Total Metals and Cyanide			

TR Number: 2-232373826-061010-0012

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

Case No: 40200
DAS No:
SDG No:
L

Date Shipped: 6/11/2010	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No:
Airbill: 8731 0479 8324	1 6/11/10 14:00		Unit Price:
Shipped to: Bonner Analytical Testing Company, 2703 Oak Grove Rd, Hattiesburg MS 39402, (601) 264-2854	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MB0002	Waste/ Kevin Scott	H/C	T_MET (14), TM/CN (14)	108 (Ice Only), 579 (2)	B12-DS-02	S: 6/8/2010	9:15	B0002	
MB0005	Waste/ Kevin Scott	H/G	TM/CN (14)	137 (Ice Only) (1)	B12-PM-01	S: 6/8/2010	10:05	B0005	
MB0006	Waste/ Kevin Scott	H/G	TM/CN (14)	141 (Ice Only) (1)	B12-PM-02	S: 6/8/2010	10:10	B0006	
MB0007	Oil(High only)/ Kevin Scott	H/G	T_MET (14), TM/CN (14)	145 (Ice Only), 564 (2)	B12-PS-01	S: 6/8/2010	9:20	B0007	
MB0008	Waste/ Kevin Scott	H/C	T_MET (14), TM/CN (14)	157 (Ice Only), 569 (2)	B12-DS-01	S: 6/8/2010	9:15	B0008	
MB0009	Sediment/ Kevin Scott	H/G	TM/CN (14)	178 (Ice Only) (1)	B12-SED-01	S: 6/8/2010	9:45	B0009	
MB0013	Sediment/Sludge / Kevin Scott	H/G	TM/CN (14)	210 (Ice Only) (1)	B7-SED-02	S: 6/8/2010	11:45	B0013	
MB0014	Sediment/Sludge / Kevin Scott	H/G	TM/CN (14)	214 (Ice Only) (1)	B7-SED-03	S: 6/8/2010	11:50	B0014	
MB0015	Sediment/Sludge / Kevin Scott	H/G	TM/CN (14)	218 (Ice Only) (1)	B7-SED-04	S: 6/8/2010	12:30	B0015	
MB0017	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	224 (Ice Only), 464 (2)	RAS-B7-TM-05	S: 6/8/2010	13:15	B0017	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	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? ___

T_MET = TCLP Metals, TM/CN = CLP TAL Total Metals and Cyanide

TR Number: 2-232373826-061010-0012

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

Case No:	40200
DAS No:	
SDG No:	L

Date Shipped:	6/11/2010
Carrier Name:	FedEx
Airbill:	8731 0479 8324
Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	6/11/10 1400		
2			
3			
4			

Sampler Signature: [signature] 6/11

For Lab Use Only

Lab Contract No:

Unit Price:

Transfer To:

Lab Contract No:

Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MB0018	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	232 (Ice Only), 529 (2)	RAS-B7-TM-09	S: 6/8/2010	13:34	B0018	
MB0019	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	240 (Ice Only), 469 (2)	RAS-B7-TM-09-2S	S: 6/8/2010	14:30	B0019	
MB0020	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	248 (Ice Only), 474 (2)	RAS-B7-TM-10	S: 6/8/2010	13:30	B0020	
MB0021	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	256 (Ice Only), 479 (2)	RAS-B7-TM-14A	S: 6/8/2010	9:50	B0021	
MB0022	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	264 (Ice Only), 484 (2)	RAS-B7-TM-14B	S: 6/8/2010	10:05	B0022	
MB0023	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	272 (Ice Only), 489 (2)	RAS-B7-TM-17	S: 6/8/2010	12:15	B0023	
MB0024	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	280 (Ice Only), 494 (2)	RAS-B7-TM-18	S: 6/8/2010	12:30	B0024	
MB0025	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	288 (Ice Only), 499 (2)	RAS-B7-TM-19	S: 6/8/2010	12:45	B0025	
MB0029	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	320 (Ice Only), 519 (2)	RAS-B7-TM-53A	S: 6/8/2010	11:00	B0029	
MB0030	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	328 (Ice Only), 524 (2)	RAS-B7-TM-53B	S: 6/8/2010	11:15	B0030	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	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? ___

T_MET = TCLP Metals, TM/CN = CLP TAL Total Metals and Cyanide

TR Number: 2-232373826-061010-0012

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

Case No:	40200
DAS No:	
SDG No:	L

Date Shipped:	6/11/2010
Carrier Name:	FedEx
Airbill:	8731 0479 8324
Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	6/11/10 1400		
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:

Unit Price:

Transfer To:

Lab Contract No:

Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MB0034	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	352 (Ice Only), 559 (2)	B7-CS-03	S: 6/9/2010	9:56	B0034	
MB0035	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	360 (Ice Only), 554 (2)	B7-DS-01	S: 6/9/2010	9:40	B0035	
MB0036	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	368 (Ice Only), 539 (2)	B7-PS-02	S: 6/9/2010	10:33	B0036	
MB0037	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	376 (Ice Only), 534 (2)	B7-PS-01	S: 6/9/2010	11:04	B0037	
MB0040	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	398 (Ice Only), 399 (Ice Only), 549 (3)	B7-DS-02	S: 6/9/2010	14:09	B0040	
MB0041	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	436 (Ice Only), 437 (Ice Only), 585, 586 (4)	Riverbank-1	S: 6/9/2010	14:00	B0041	
MB0042	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	438 (Ice Only), 544 (2)	B7-PS-03	S: 6/9/2010	11:54	B0042	
MB0043	Waste/ Kevin Phelan	H/G	T_MET (14), TM/CN (14)	448 (Ice Only), 574 (2)	B7-CS-02	S: 6/9/2010	11:27	B0043	
MB0044	Waste/ Chris Burns	H/G	T_MET (14), TM/CN (14)	591, 595 (2)	B7-P-01	S: 6/9/2010	15:15	B0044	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	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? ___

T_MET = TCLP Metals, TM/CN = CLP TAL Total Metals and Cyanide

TR Number: 2-232373826-061010-0012

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Charlie LaCerra

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 873104798200 (Airbill #)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: TetraTech EMI	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 7 Creek Parkway Suite 700	
City: Boothwyn **State/Province:** Pa	**Zip/Postal Code:** 19601 **Country:**
Report To (Name): Chris Burns	**Fax #:**
Telephone #: 267-446-2447 / 570417 1280	**Email Address:** chris.burns@TetraTech.com
Project Name/Number: 103Dx9004L100178	
Please Provide Results: ☐ Fax ☐ Email **Purchase Order:**	**U.S. State Samples Taken:** NJ

Turnaround Time (TAT) Options* – Please Check 21 Days

☐ 3 Hours ☐ 6 Hours ☐ 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

*For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RSA-BK-001	10" Pipewrap, 1st Flr., Bld. Z, horizontal Pipe		6/9/10 930
RSA-BK-002	6" Pipewrap, 1st Flr, Bld Z, horizontal Pipe		6/9/10 945
RSA-BK-003	6" Pipe wrap, 1st Flr, Bld. Z, horizontal Pipe (under machinery)		6/9/10 955
RSA-BK-004	6" Pipewrap, 2nd Flr, Bld Z, horizonal Pipe (North)		6/9/10 1015
RSA-BK-005	6" Pipewrap, 2nd Flr, Bld. Z, horizontal Pipe (South)		6/9/10 1030
RSA-BK-006	10" Pipe wrap, 3rd Flr, Bld Z, horizontal Pipe (North)		6/9/10 1050
RSA-BK-007	6" Pipe wrap, 3rd Flr, Bld Z, horizontal Pipe (South)		6/9/10 1050
RSA-BK-008	6" Pipe wrap, 3rd Flr, Bld Z, Vertical Pipe (North, near Door)		6/9/10 1055

Client Sample # (s): - **Total # of Samples:** 12

Relinquished (Client): Chris Burns **Date:** 6/14/10 **Time:** 1200

Received (Lab): C LaCerra EMSL **Date:** 6/16/10 **Time:** 0900

Comments/Special Instructions:
Cooler delived to incorrect location on 6/15/10. CJ

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

8 731 0 4 2 9 8 2 0 0 (Airbill #)

EMSL ANALYTICAL, INC.
107 HADDON AVENUE
WESTMONT, NJ 08108
PHONE: (856) 858-4800
FAX: (856) 858-4960

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RSA-BK-009	6" Pipe, Bld. 7, 3rd Flr, Vertical Pipe, (North Back wall)		6/9/10 1100
RSA-BK-010	18" Pipe wrap, Bld 12 Basement, horizontal Pipe		6/9/10 1120
RSA-BK-011	weathered Pipe wrap on Ground outside Bld. 7	South	6/8/10 1430
RSA-BK-012	6" pipe wrap, Bld. 7, outside Pipe, horizontal	(South)	6/8/10 1440

***Comments/Special Instructions:**

APPENDIX D

ANALYTICAL SUMMARY TABLES

Table 1
Summary of Volatile Organic Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :		B0017		B0023		B0024		B0018		B0020	
Sampling Location :		B7-TM-05		B7-TM-17		B7-TM-18		B7-TM-09		B7-TM-10	
Field QC								DUP of B7-TM-10		DUP of B7-TM-09	
Matrix :		Waste		Waste		Waste		Waste		Waste	
Units :		ug/L		ug/L		ug/L		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200	
SDG:		B0023		B0023		B0023		B0002		B0002	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		13:15		12:15		12:30		13:34		13:30	
Volatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	500			1100	J						
Methylene chloride	250										
2-Butanone	500			110	J						
Methylcyclohexane	250					9.4	J				
4-Methyl-2-pentanone	500			220	J						
Toluene	250			65	J						
2-Hexanone	500			44	J						
Ethylbenzene	250			170	J						
o-Xylene	250			630	J						
m,p-Xylene	250			14	J						
Styrene	250			21	J						
Isopropylbenzene	250			26	J						

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
P = Pipe copmosite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material

Table 1
Summary of Volatile Organic Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :		B0021		B0022		B0025		B0019		B0044		B0029		B0030	
Sampling Location :		B7-TM-14A		B7-TM-14B		B7-TM-19		B7-TM-09-2S		B7-P-01		B7-TM-53A		B7-TM-53B	
Field QC															
Matrix :		Waste		Waste		Waste		Waste		Waste		Waste		Waste	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/L	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200		40200		40200	
SDG:		B0002		B0002		B0002		B0002		B0002		B0023		B0023	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010		6/8/2010		6/8/2010	
Time Sampled :		9:50		10:05		12:45		14:30		15:15		11:00		11:15	
Volatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	500														
Methylene chloride	250			560	J					780	J				
2-Butanone	500														
Methylcyclohexane	250									3200	J				
4-Methyl-2-pentanone	500														
Toluene	250									3200	J				
2-Hexanone	500														
Ethylbenzene	250									15000	J				
o-Xylene	250									29000	J				
m,p-Xylene	250									65000	J				
Styrene	250														
Isopropylbenzene	250									7700	J				

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
P = Pipe copmosite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material

Table 2
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :	B0017			B0023			B0021			B0022		
Sampling Location :	B7-TM-05			B7-TM-17			B7-TM-14A			B7-TM-14B		
Field QC												
Matrix :	Waste			Waste			Soil/Waste			Waste		
Units :	ug/L			ug/L			ug/Kg			ug/Kg		
Laboratory	A4 Scientific			A4 Scientific			A4 Scientific			A4 Scientific		
Case #:	40200			40200			40200			40200		
SDG:	B0023			B0023			B0002			B0002		
Date Sampled :	6/8/2010			6/8/2010			6/8/2010			6/8/2010		
Time Sampled :	13:15			12:15			9:50			10:05		
Volatiles	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag
	Unknown-01 (10.41)	840	J	Unknown-01 (10.41)	110	J	Undecane	22000	JN	Unknown-01 (6.39)	26000	J
	Unknown-02 (10.41)	340	J	Total Alkane TICs	46	J				Unknown-02 (6.39)	15000	J
	Unknown-03 (10.41)	600	J							Unknown-03 (6.39)	5400	J
	Unknown-04 (10.41)	120	J							Unknown-04 (6.39)	14000	J
	Unknown-05 (10.41)	210	J							Unknown-05 (6.39)	47000	J
	Unknown-06 (10.41)	250	J							Unknown-06 (6.39)	19000	J
	Unknown-07 (10.41)	300	J							Unknown-07 (6.39)	31000	J
	Benzene, 1,3,5-trimethyl-	84	JN							Unknown-08 (6.39)	12000	J
	Benzene, 1-ethyl-4-methyl-	89	JN									
	Benzene, 1,2,3-trimethyl-	250	JN									

Notes:
No TICs identified in B0024 (B7-TM-18), B0029 (B7-TM-53A), B0030 (B7-TM-53B) and B0025 (B7-TM-19).
ug/Kg = micrograms per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
P = Pipe copmosite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material
TIC = Tentatively identified compound

Table 2
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :	B0018			B0020			B0019			B0044		
Sampling Location :	B7-TM-09			B7-TM-10			B7-TM-09-2S			B7-P-01		
Field QC	DUP of B7-TM-10			DUP of B7-TM-09								
Matrix :	Waste			Waste			Soil/Waste			Waste		
Units :	ug/Kg			ug/Kg			ug/Kg			ug/Kg		
Laboratory	A4 Scientific			A4 Scientific			A4 Scientific			A4 Scientific		
Case #:	40200			40200			40200			40200		
SDG:	B0002			B0002			B0002			B0002		
Date Sampled :	6/8/2010			6/8/2010			6/8/2010			6/8/2010		
Time Sampled :	13:34			13:30			14:30			15:!5		
Volatiles	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag
	Hexanal	9300	JN	Hexanal	5700	JN	Unknown-01 (10.41)	2500	J	Cyclohexane, 1,4-dimethyl-,...	6800	JN
	Furan, 2-pentyl-	3200	JN	Furan, 2-pentyl-	1900	JN				Benzene, 1-ethyl-2-methyl-	3300	JN
	Unknown-01 (6.39)	24000	J	Unknown-01 (6.40)	22000	J				Benzene, 1,2,3-trimethyl-	17000	JN
	Unknown-02 (6.39)	22000	J							Benzene, 1-ethyl-2,4-dimethyl-	6800	JN
	Unknown-03 (6.39)	18000	J							Benzene, 1,2,4,5-tetramethyl-	2100	JN
	Unknown-04 (6.39)	11000	J							Octane, 3-methyl-	17000	JN
	Unknown-05 (13.24)	2300	J							Nonane	250000	JN
										Unknown-01 (10.41)	93000	J

Notes:
No TICs identified in B0024 (B7-TM-18), B0029 (B7-TM-53A), B0030 (B7-TM-53B) and B0025 (B7-TM-19).
ug/Kg = micrograms per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
P = Pipe copmosite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material
TIC = Tentatively identified compound

Table 3
Summary of Aroclor Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :		B0018		B0020		B0021		B0022		B0019		B0044	
Sampling Location :		B7-TM-09		B7-TM-10		B7-TM-14A		B7-TM-14B		B7-TM-09-2S		B7-P-01	
Field QC		DUP of B7-TM-10		DUP of B7-TM-09									
Matrix :		Waste		Waste		Waste		Waste		Waste		Waste	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200		40200	
SDG:		B0002		B0002		B0002		B0002		B0002		B0008	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010	
Time Sampled :		13:34		13:30		9:50		10:05		14:30		15:15	
Aroclor Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1221	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1232	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1242	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1248	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1254	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1260	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1262	33		UJ		UJ		UJ		UJ		UJ		UJ
Aroclor-1268	33		UJ		UJ		UJ		UJ		UJ		UJ

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
P = Pipe composite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material
U = Not detected above the reported detection limit.
UJ = Not detected above the reported detection limit. Detection limit is approximate.
Aroclor analysis not completed for samples B0017, B0023, B0024, B0025, B0029 and B0030.

Table 4
Summary of Inorganic Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :		MB0017		MB0023		MB0024		MB0025		MB0029		MB0030		MB0018	
Sampling Location :		B7-TM-05		B7-TM-17		B7-TM-18		B7-TM-19		B7-TM-53A		B7-TM-53B		B7-TM-09	
Field QC :														Dup. of B7-TM-10	
Matrix :		Waste		Waste		Waste		Waste		Waste		Waste		Waste	
Units :		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Laboratory		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner	
Case #:		40200		40200		40200		40200		40200		40200		40200	
SDG:		MB007		MB007		MB007		MB007		MB007		MB007		MB0018	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		1315		1215		1230		1245		1100		1115		13:34	
ANALYTE	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	20														
ANTIMONY	6														
ARSENIC	1														
BARIUM	20	0.7	J	0.16	J	0.22	J	0.2	J						
BERYLLIUM	0.5														
CADMIUM	0.5														
CALCIUM	500	24.5	J	38.1	J	36.3	J	15.8	J	8.4	J	6.1	J		
CHROMIUM	1	0.048	J									0.04	J		
COBALT	5	0.035	J												
COPPER	2.5													0.1	J
IRON	10	35.8		23.9		12.3		15.6						9.3	
LEAD	1	0.37	J											1.8	
MAGNESIUM	500			7.2	J									4.3	J
MANGANESE	1.5	2.8		30.4		17.4		6.6		0.11	J	0.13	J	0.12	J
MERCURY	0.1					0.049	J	0.071	J	0.06	J	0.041	J		
NICKEL	4														
POTASSIUM	500														
SELENIUM	3.5														
SILVER	1														
SODIUM	500													13.4	J
THALLIUM	2.5														
VANADIUM	5														
ZINC	6	0.95	J	0.069	J	0.26	J								
CYANIDE	2.5														

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
mg/Kg = Milligrams per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
P = Pipe composite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material

Table 4
Summary of Inorganic Compounds
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :		MB0020		MB0019		MB0021		MB0022		MB0037		MB0044	
Sampling Location :		B7-TM-10		B7-TM-09-2S		B7-TM-14A		B7-TM-14B		B7-PS-01		B7-P-01	
Field QC :		Dup. of B7-TM-09											
Matrix :		Waste		Waste		Waste		Waste		Soil		Waste	
Units :		mg/kg		mg/kg		mg/kg		mg/kg		mg/Kg		mg/kg	
Laboratory		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner	
Case #:		40200		40200		40200		40200		40200		40200	
SDG:		MB0018		MB0018		MB0018		MB0018		MB0037		MB0008	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010		6/9/2010	
Time Sampled :		13:30		14:30		9:50		10:05		11:04		1515	
ANALYTE	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	20			13.2								41.6	
ANTIMONY	6												
ARSENIC	1											0.54	J
BARIUM	20									14.4	J	7.8	J
BERYLLIUM	0.5												
CADMIUM	0.5			0.032	J							0.42	J
CALCIUM	500											224	J
CHROMIUM	1			0.16	J							1.7	
COBALT	5											304	
COPPER	2.5			9.7								3.3	
IRON	10	5.4		30.6								2910	J
LEAD	1	1.5		10.3		1.4		3.4				1110	J
MAGNESIUM	500	4.6	J	17.6	J							38.2	J
MANGANESE	1.5	0.11	J	2.9				0.12	J			44.7	
MERCURY	0.1	0.049	J					0.075	J				
NICKEL	4											2.2	J
POTASSIUM	500											36.5	J
SELENIUM	3.5											0.64	J
SILVER	1												
SODIUM	500	13.1	J	10.6	J	1.5	J	3.3	J	21.2	J	169	J
THALLIUM	2.5					5.8							
VANADIUM	5											0.62	J
ZINC	6			63.3						70.5		79.6	J
CYANIDE	2.5												

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
mg/Kg = Milligrams per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
P = Pipe composite sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TM = Tank material

Table 5
Summary of TCLP Results
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :			B0017 (MB0017)		B0023 (MB0023)		B0024 (MB0024)		B0029 (MB0029)		B0030 (MB0030)		B0021 (MB0021)	
Sampling Location :			B7-TM-05		B7-TM-17		B7-TM-18		B7-TM-53A		B7-TM-53B		B7-TM-14A	
Field QC														
Matrix :			Waste		Waste		Waste		Waste		Waste		Waste	
Units :			ug/L		ug/L		ug/L		ug/L		ug/L		ug/Kg	
Laboratory			A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:			40200		40200		40200		40200		40200		40200	
SDG:			B0017 (MB0002)		B0017 (MB0002)		B0017 (MB0002)		B0017 (MB0002)		B0017 (MB0002)		B008 (MB0002)	
Date Sampled :			6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :			13:15		12:15		12:30		11:00		11:15		9:50	
Compound	QL	TCLP Regulatory Limit	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Vinyl chloride	5	200		R		R		R		R		R		R
1,1-Dichloroethene	5	700		R		R		R		R		R		R
2-Butanone	10	200000		R	8	J		R		R		R		R
Chloroform	5	6000		R		R		R		R		R		R
Carbon tetrachloride	5	500		R		R		R		R		R		R
Benzene	5	500		R		R		R		R		R		R
1,2-Dichloroethane	5	500		R		R		R		R		R		R
Trichloroethene	5	500		R		R		R		R		R		R
Tetrachloroethene	5	700		R		R		R		R		R		R
Chlorobenzene	5	100000		R		R		R		R		R		R
1,4-Dichlorobenzene	5	7500		R		R		R		R		R		R
2-Methylphenol	5	200000		U		U		U		U		U		U
3-Methylphenol + 4-Methylphenol	5	200000		U		U		U		U		U		U
Total Cresol	5	200000		U		U		U		U		U		U
Hexachloroethane	5	3000		U		U		U		U		U		U
Nitrobenzene	5	2000		U		U		U		U		U		U
Hexachlorobutadiene	5	500		U		U		U		U		U		U
2,4,6-Trichlorophenol	5	2000		U		U		U		U		U		U
2,4,5-Trichlorophenol	5	400000		U		U		U		U		U		U
2,4-Dinitrotoluene	5	130		U		U		U		U		U		U
Hexachlorobenzene	5	130		U		U		U		U		U		U
Pentachlorophenol	10	100000		U		U		U		U		U		U
Pyridine	5	5000		U		U		U		U		U		U
gamma-BHC (Lindane)	0.05	400		UJ	No Result Reported			UJ		UJ		UJ		UJ
Heptachlor	0.05	8		UJ	No Result Reported			UJ		UJ		UJ		UJ
Heptachlor epoxide	0.05	8		UJ	No Result Reported			UJ		UJ		UJ		UJ
Endrin	0.1	20		UJ	No Result Reported			UJ		UJ		UJ		UJ
Methoxychlor	0.5	10000		UJ	No Result Reported			UJ		UJ		UJ		UJ
alpha-Chlordane	0.05	30		UJ	No Result Reported			UJ		UJ		UJ		UJ
gamma-Chlordane	0.05	30		UJ	No Result Reported			UJ		UJ		UJ		UJ
Toxaphene	5	500		UJ	No Result Reported			UJ		UJ		UJ		UJ
2,4-D	2.5	10000			4.4			U		U		U	2.3	J
2,4,5-TP (Silvex)	0.5	1000				U		U		U		U		UJ
Arsenic	10	5000		UJ		UJ		UJ		UJ		UJ		UJ
Barium	200	100000		UJ		UJ		UJ		U		U		UJ
Cadmium	5	1000		U		U		U		U		U		U
Chromium	10	5000		U		U		U		U		U		U
Lead	10	5000				U		U		UJ		UJ	25.1	
Mercury	0.2	200		U		U		U		U		U		U
Selenium	35	1000		U		U		U		J		J		U
Silver	10	5000		U		U		U		UJ		UJ		U

Table 5
Summary of TCLP Results
Detected in Building 7 Tank Samples
Riverside Avenue Site

Sample Number :			B0022 (MB0022)		B0025 (MB0025)		B0019 (MB0019)		B0044/MB0044		B0018 (MB0018)		B0020 (MB0020)	
Sampling Location :			B7-TM-14B		B7-TM-19		B7-TM-09-2S		B7-P-01		B7-TM-09		B7-TM-10	
Field QC											DUP of B7-TM-10		DUP of B7-TM-09	
Matrix :			Waste		Waste		Waste		Waste		Waste		Waste	
Units :			ug/Kg		ug/Kg		ug/Kg		ug/L		ug/Kg		ug/Kg	
Laboratory			A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:			40200		40200		40200		40200		40200		40200	
SDG:			B008 (MB0002)		(MB0025)		B008 (MB0002)		B0002 (MB0025)		B008 (MB0002)		B008 (MB0002)	
Date Sampled :			6/8/2010		6/8/2010		6/8/2010		6/9/2010		6/8/2010		6/8/2010	
Time Sampled :			10:05		12:45		14:30		15:15		13:34		13:30	
Compound	QL	TCLP Regulatory Limit	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Vinyl chloride	5	200		R				R		R		R		U
1,1-Dichloroethene	5	700		R				R		R		R		U
2-Butanone	10	200000		R				R		R		R		U
Chloroform	5	6000		R				R	1.2	J		R		U
Carbon tetrachloride	5	500		R				R		R		R		U
Benzene	5	500		R				R		R		R		U
1,2-Dichloroethane	5	500		R				R		R		R		U
Trichloroethene	5	500		R				R		R		R		U
Tetrachloroethene	5	700		R				R		R		R		U
Chlorobenzene	5	100000		R				R		R		R		U
1,4-Dichlorobenzene	5	7500		R				R		R		R		U
2-Methylphenol	5	200000		R				U		U		U		U
3-Methylphenol + 4-Methylphenol	5	200000		R				U		U		U		U
Total Cresol	5	200000		U				U		U		U		U
Hexachloroethane	5	3000		U				U		U		U		U
Nitrobenzene	5	2000		U				U		U		U		U
Hexachlorobutadiene	5	500		U				U		U		U		U
2,4,6-Trichlorophenol	5	2000		U				U		U		U		U
2,4,5-Trichlorophenol	5	400000		U				U		U		U		U
2,4-Dinitrotoluene	5	130		U				U		U		U		U
Hexachlorobenzene	5	130		U				U		U		U		U
Pentachlorophenol	10	100000		U				U		U		U		U
Pyridine	5	5000		U				U		U		U		U
gamma-BHC (Lindane)	0.05	400		UJ				UJ	No Result Reported			UJ		UJ
Heptachlor	0.05	8		UJ				UJ	No Result Reported			UJ		UJ
Heptachlor epoxide	0.05	8		UJ				UJ	No Result Reported			UJ		UJ
Endrin	0.1	20		UJ				UJ	No Result Reported			UJ		UJ
Methoxychlor	0.5	10000		UJ				UJ	No Result Reported			UJ		UJ
alpha-Chlordane	0.05	30		UJ				UJ	No Result Reported			UJ		UJ
gamma-Chlordane	0.05	30		UJ				UJ	No Result Reported			UJ		UJ
Toxaphene	5	500		UJ				UJ	No Result Reported			UJ		UJ
2,4-D	2.5	10000		UJ		UJ		UJ		UJ	2.2	J		UJ
2,4,5-TP (Silvex)	0.5	1000		UJ		UJ		UJ		UJ		UJ		UJ
Arsenic	10	5000		UJ		UJ		U		UJ		UJ		UJ
Barium	200	100000		UJ		U		UJ		U		UJ		UJ
Cadmium	5	1000		U		U		U		U		U		U
Chromium	10	5000		U		U		U		U		U		U
Lead	10	5000	47.1			UJ	44.7			UJ	28.9		32.6	
Mercury	0.2	200		U		U		U		U		U		U
Selenium	35	1000		U		UJ		U		UJ		U		U
Silver	10	5000		U		UJ		U		UJ		U		U

Table 5
Summary of TCLP Results
Detected in Building 7 Tank Samples
Riverside Avenue Site

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
Shaded cell indicates analytical results not received.
Sample number for organic analysis starts with "B", sample number for inorganic analysis (shown in paraenthesis) starts with "MB"
ug/l = micrograms per liter
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
P = Pipe compostie sample
QC = Quality Control
QL = Quantitation limit.
R = Unsuable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
SDG = Sample Delivery Group
TCLP = Toxicity Characteristic Leaching Procedure
TM = Tank material
U = Not detected above the reporting detection limit.
UJ = Not detected above the reporting detection limit. Reporting detection limit is estimated.

Table 6
Summary of Volatile Organic Compounds
Detected in Drum and Container Samples
Riverside Avenue Site

Sample Number :		B0040		B0042		B0035		B0036		B0037		B0043		B0034		B0002		B0007		B0008	
Sampling Location :		B7-DS-02		B7-PS-03		B7-DS-01		B7-PS-02		B7-PS-01		B7-CS-02		B7-CS-03		B12-DS-02		B12-PS-01		B12-DS-01	
Field QC																					
Matrix :		Waste		Waste		Waste		Waste		Waste		Waste		Waste		Waste		Oil		Waste	
Units :		ug/Kg		ug/Kg		ug/L		ug/L		ug/L		ug/L		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200		40200		40200		40200		40200		40200	
SDG:		B0002		B0002		B0002		B0023		B0023		B0023		B0002		B0002		B0002		B0002	
Date Sampled :		6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		14:09		11:54		9:40		10:33		11:04		11:27		9:56		9:15		9:20		9:15	
Volatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	500															39000	J	13000000	J		
Methyl acetate	250											110	J	410	J	11000	J				
Methylene chloride	250	380	J													5500	J			32000	J
Methyl ter-butyl ether	250															3100	J				
2-Butanone	500																	67000	J		
Cyclohexane	250															13000	J				
Bromochloromethane	250																			2300	J
1,1,1-trichloroethane	250															2100	J				
Methylcyclohexane	250																				
Carbon tetrachloride	250															720	J				
Toluene	250	4100	J																		
Ethylbenzene	250	250000	J																		
o-Xylene	250	390000	J																		
m,p-Xylene	250	710000	J																		
Isopropylbenzene	250	21000	J																		

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
Shaded cell indicates analytical results not received.
ug/Kg = micrograms per kilogram
B7 = Building 7
CS = Container sample
DS = Drum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
PS = Pail Sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group

Table 7
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Drums and Container Samples

Sample Number :	B0040			B0042			B0016			B0037	
Sampling Location :	B7-DS-02			B7-PS-03			B7-TAR-01			B7-PS-01	
Field QC											
Matrix :	Waste			Waste			Waste			Waste	
Units :	ug/Kg			ug/Kg			ug/Kg			ug/L	
Laboratory	A4 Scientific			A4 Scientific			A4 Scientific			A4 Scientific	
Case #:	40200			40200			40200			40200	
SDG:	B0002			B0002			B0005			B0023	
Date Sampled :	6/8/2010			6/8/2010			6/8/2010			6/9/2010	
Time Sampled :	14:09			11:54			14:45			11:04	
Volatiles	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag	TIC	Result
	Benzene, propyl-	5800	JN	Unknown-01 (6.39)	15000	J	Bicyclo[3.2.1]octane	2200	JN	Unknown-01 (13.25)	48
	Benzene, 1-ethyl-2-methyl- (01)	31000	JN	Unknown-02 (6.39)	9500	J	Benzene, 1-ethyl-2-methyl- (01)	5400	JN	Unknown-02 (13.25)	45
	Benzene, 1,2,3-trimethyl- (01)	18000	JN				Benzene, 1,2,3-trimethyl- (01)	10000	JN	Unknown-03 (13.25)	8000
	Benzene, 1-ethyl-2-methyl- (02)	11000	JN				Benzene, 1-ethyl-2-methyl- (02)	3900	JN	Unknown-04 (13.25)	27
	Benzene, 1,2,3-trimethyl- (02)	47000	JN				Benzene, 1,2,3-trimethyl- (02)	16000	JN		
	Benzene, 1,2,3-trimethyl- (03)	16000	JN				Unknown-01 (12.88)	1800	J		
	Benzene, 1-propenyl-	6400	JN				Benzene, 1,2,3-trimethyl- (03)	9800	JN		
	Benzene, 2-ethyl-1,4-dimethyl-	5500	JN				Benzene, 1-ethyl-3,5-dimethyl-	12000	JN		
	Benzene, 1-ethyl-2,4-dimethyl-	4600	JN				Benzene, 2-ethyl-1,4-dimethyl- (01)	5000	JN		
	Benzene, 1,2,3,4-tetramethyl-	4200	JN				Benzene, 1-methyl-2-(1-meth...	5700	JN		
	Benzene, 1,2,4,5-tetramethyl-	3000	JN				Benzene, 4-ethyl-1,2-dimethyl-	11000	JN		
	Unknown-01 (6.39)	3600	J				Indan, 1-methyl-	2300	JN		
	Unknown-02 (10.41)	1800	J				Unknown-02 (12.88)	7600	J		
	Unknown-03 (10.41)	2200	J				Unknown-03 (12.88)	2700	J		
	Unknown-04 (13.24)	1800	J				Benzene, 2-ethyl-1,4-dimethyl- (02)	4100	JN		
							Benzene, 1,2,4,5-tetramethyl- (01)	6600	JN		
							Benzene, 1,2,4,5-tetramethyl- (02)	10000	JN		
							Unknown-04 (12.88)	3300	J		
							Benzene, 1,2,4,5-tetramethyl- (03)	10000	JN		
							Benzene, 1-methyl-4-(1-meth... (03)	1800	JN		
							Naphthalene, 1,2,3,4-tetrah...	3000	JN		
							Unknown-05 (12.88)	3400	J		
							Total Alkane TICs	49000	J		

Notes:
No TICs identified in B0036 (B7-PS-02) or B0008 (B7-DS-01)).
Analytical results not received for sample B0035 (B7-DS-01).
ug/Kg = micrograms per kilogram
CS = Container sample
DS = Drum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
PS = Pail Sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TIC = Tentatively identified compound

Table 7
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Drums and Container Samples

Sample Number :	B0043			B0034		B0002			B0007		
Sampling Location :	B7-CS-02			B7-CS-03		B12-DS-02			B12-PS-01		
Field QC											
Matrix :	Waste			Waste		Waste			Oil		
Units :	ug/L			ug/Kg		ug/Kg			ug/Kg		
Laboratory	A4 Scientific			A4 Scientific		A4 Scientific			A4 Scientific		
Case #:	40200			40200		40200			40200		
SDG:	B0023			B0002		B0002			B0002		
Date Sampled :	6/9/2010			6/8/2010		6/8/2010			6/8/2010		
Time Sampled :	11:27			9:56		9:15			9:20		
Volatiles	TIC	Result	Flag	TIC	Result	TIC	Result	Flag	TIC	Result	Flag
	Unknown-01 (10.42)	420	J	Unknown-01 (13.24)	1600	Unknown-01 (6.40)	20000	J	1,3-Butadiene, 2-methyl-	120000	JN
	Unknown-02 (10.42)	520	J			Unknown-02 (6.40)	33000	J	Propanal, 2-methyl-	45000	JN
	Unknown-03 (10.42)	250	J			Unknown-03 (6.40)	44000	J	2,3-Dihydrofuran	41000	JN
	Unknown-04 (10.42)	770	J						.beta.-Myrcene	330000	JN
	Unknown-05 (10.42)	2900	J						.alpha.-Phellandrene	47000	JN
	Unknown-06 (10.42)	4100	J						1,3-Cyclohexadiene, 1-methy...	80000	JN
	Unknown-07 (10.42)	3400	J						1,3,6-Octatriene, 3,7-dimet... (01)	200000	JN
	Unknown-08 (10.42)	670	J						d-Limonene	560000	JN
	Pentane, 1-iodo-	43	JN						1,3,6-Octatriene, 3,7-dimet... (02)	330000	JN
	Unknown-09 (13.24)	92	J						1,4-Cyclohexadiene, 1-methy...	57000	JN
	Octanoic acid, methyl ester	380	JN						Cyclohexene, 1-methyl-4-(1-...	220000	JN
	Butanoic acid, 3-hexenyl es...	2900	JN						cis-Linaloloxide (01)	160000	JN
									cis-Linaloloxide (02)	62000	JN
									1,6-Octadien-3-ol, 3,7-dime...	5600000	JN
									Unknown-04 (13.24)	230000	J
									3-Cyclohexene-1-methanol, ...	260000	JN
									Unknown-01 (6.40)	480000	J
									Unknown-02 (10.41)	140000	J
									Unknown-03 (10.41)	110000	J

Notes:
No TICs identified in B0036 (B7-PS-02) or B0008 (B7-DS-01)).
Analytical results not received for sample B0035 (B7-DS-01).
ug/Kg = micrograms per kilogram
CS = Container sample
DS = Drum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
PS = Pail Sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TIC = Tentatively identified compound

Table 8
Summary of Aroclor Compounds
Detected in Drum and Container Samples
Riverside Avenue Site

Sample Number :		B0035		B0040		B0042		B0034		B0002		B0007		B0008	
Sampling Location :		B7-DS-01		B7-DS-02		B7-PS-03		B7-CS-03		B12-DS-02		B12-PS-01		B12-DS-01	
Field QC															
Matrix :		Waste		Waste		Waste		Waste		Waste		Oil		Waste	
Units :		ug/L		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200		40200		40200	
SDG:		B0002		B0008		B0008		B0002		B0002		B0002		B0002	
Date Sampled :		6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		9:40		14:09		11:54		9:56		9:15		9:20		9:15	
Aroclor Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1221	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1232	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1242	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1248	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1254	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1260	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1262	33		UJ		UJ		UJ		UJ		R				UJ
Aroclor-1268	33		UJ		UJ		UJ		UJ		R				UJ

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
Shaded cell indicates analysis not completed.
ug/Kg = micrograms per kilogram
B7 = Building 7
CS= Container sample
DS = Drum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
PS = Pail Sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
UJ = Analyte not detected above reported detection limit. Detection limit is estimated.
U = Analyte not detected above reported detection limit.
Aroclor analysis not completed for samples B0036, B0037 and B0043.

Table 9
Summary of Inorganic Compounds
Detected in Drum and Container Samples
Riverside Avenue Site

Sample Number :		MB0035		MB0042		MB0036		MB0040		MB0045		MB0034		MB0008		MB007		MB0002	
Sampling Location :		B7-DS-01		B7-PS-03		B7-PS-02		B7-DS-02		B7-CS-02		B7-CS-03		B12-DS-01		B12-PS-01		B12-DS-02	
Field QC :																			
Matrix :		Waste		Waste		Waste		Waste		Waste		Waste		Waste		Oil		Waste	
Units :		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Laboratory		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner		Bonner	
Case #:		40200		40200		40200		40200		40200		40200		40200		40200		40200	
SDG:		MB0008		MB0008		MB007		MB007		MB007		MB0008		MB0008		MB007		MB0008	
Date Sampled :		6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/17/2010		6/9/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		940		1154		1033		1409		1000		956		915		920		915	
ANALYTE	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	20	6190		14.6	J	3.5	J	6.4	J			8760		15.8	J			1080	
ANTIMONY	6																		
ARSENIC	1	1.1										4.8						6.8	
BARIUM	20	149		2	J	182		0.29	J	0.51	J	259		5.5	J			55.4	
BERYLLIUM	0.5	1.2										0.51						1.6	
CADMIUM	0.5	0.25	J	0.073	J							0.84						0.069	J
CALCIUM	500	8200		124	J	114	J	161	J	19.1	J	59400		287	J			1460	J
CHROMIUM	1	16.8	J	1.2		0.14	J	6.5		0.43	J	14.4		0.11	J	0.056	J	11.4	J
COBALT	5	10.2		0.23	J							6.8		0.06	J			5.7	
COPPER	2.5	5		1.4	J	41.2		1.1	J	0.1	J	23.1		9.1				22.4	J
IRON	10	5620	J	1090	J	25.9		198		511		6870	J	37.2	J	1.9	J	3850	J
LEAD	1	8.7	J	3.4	J	3.6		2.5		0.74		18.1	J						
MAGNESIUM	500	4630		10	J	3.1	J	31.9	J			4990		164	J			210	J
MANGANESE	1.5	65.1	J	4.7		0.97		2.5		1.5		812		3.8				51.3	J
MERCURY	0.1					0.1						0.11	J	0.052	J				
NICKEL	4	9.7		1.9	J							27.1		0.49	J			26.3	
POTASSIUM	500	987		42.9	J							4970		5510				91.1	J
SELENIUM	3.5	0.89	J									1.4	J					1.6	J
SILVER	1											0.79	J						
SODIUM	500	216	J	336	J					1120		12900	J	428	J			143	J
THALLIUM	2.5																		
VANADIUM	5	20.9										86.3						12.4	
ZINC	6	121	J	23.2	J	409		6.8				156	J			0.13	J		
CYANIDE	2.5	3.6	J							0.61	J								

Notes:
mg/Kg = Milligrams per kilogram
Empty cell indicates parameter not detected above the reported detection limit.
B7 = Building 7
CS = Container sample
DS = Drum sample
Flag = Data qualifier
PS = Pail Sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group

Table 10
Summary of TCLP Results
Detected in Drum and Container Samples
Riverside Avenue Site

Sample Number :			B0040/MB0040		B0042/MB0042		B0035/MB0035		B0036/MB0036		B0037MB0037	
Sampling Location :			B7-DS-02		B7-PS-03		B7-DS-01		B7-PS-02		B7-PS-01	
Field QC												
Matrix :			Waste		Waste		Waste		Waste		Waste	
Units :			ug/L		ug/L		ug/L		ug/L		ug/L	
Laboratory			A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:			40200		40200		40200		40200		40200	
SDG:			B0002 (MB0025)		B0002		B0002 (MB0025)		B0023 (MB0025)		B0023 (MB0025)	
Date Sampled :			6/9/2010		6/9/2010		6/9/2010		6/9/2010		6/9/2010	
Time Sampled :			14:09		11:54		9:40		10:33		11:04	
Compound	QL	TCLP Regulatory Limit	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Vinyl chloride	5	200		R		R		R		R		R
1,1-Dichloroethene	5	700		R		R		R		R		R
2-Butanone	10	200000		R		R		R		R		R
Chloroform	5	6000		R		R		R		R		R
Carbon tetrachloride	5	500		R		R		R		R		R
Benzene	5	500		R		R		R		R		R
1,2-Dichloroethane	5	500		R		R		R		R		R
Trichloroethene	5	500		R		R		R		R		R
Tetrachloroethene	5	700		R		R		R		R		R
Chlorobenzene	5	100000		R		R		R		R		R
1,4-Dichlorobenzene	5	7500		R		R		R		R		R
2-Methylphenol	5	200000		U		U		U		U		U
3-Methylphenol + 4-Methylphenol	5	200000		U		U		U		U		U
Total Cresol	5	200000		U		U		U		U		U
Hexachloroethane	5	3000		U		U		U		U		U
Nitrobenzene	5	2000		U		U		U		U		U
Hexachlorobutadiene	5	500		U		U		U		U		U
2,4,6-Trichlorophenol	5	2000		U		U		U		U		U
2,4,5-Trichlorophenol	5	400000		U		U		U		U		U
2,4-Dinitrotoluene	5	130		U		U		U		U		U
Hexachlorobenzene	5	130		U		U		U		U		U
Pentachlorophenol	10	100000		U		U		U		U		U
Pyridine	5	5000		U		U		U		U		U
gamma-BHC (Lindane)	0.05	400		UJ		UJ		UJ		UJ		UJ
Heptachlor	0.05	8		UJ		UJ		UJ		UJ		UJ
Heptachlor epoxide	0.05	8		UJ		UJ		UJ		UJ		UJ
Endrin	0.1	20		UJ		UJ		UJ		UJ		UJ
Methoxychlor	0.5	10000		UJ		UJ		UJ		UJ		UJ
alpha-Chlordane	0.05	30		UJ		UJ		UJ		UJ		UJ
gamma-Chlordane	0.05	30		UJ		UJ		UJ		UJ		UJ
Toxaphene	5	500		UJ		UJ		UJ		UJ		UJ
2,4-D	2.5	10000		UJ	1.5	J	4.4	UJ	1.5	J	10	J
2,4,5-TP (Silvex)	0.5	1000		UJ		UJ	4.7	U	0.3	J		R
Arsenic	10	5000		UJ				UJ		UJ		UJ
Barium	200	100000		U				U		U		U
Cadmium	5	1000		U				J		U		U
Chromium	10	5000		U				U		U		U
Lead	10	5000		UJ				UJ		UJ		UJ
Mercury	0.2	200		U				U		U		U
Selenium	35	1000		UJ				UJ		J		UJ
Silver	10	5000		UJ				UJ		UJ		UJ

Table 10
Summary of TCLP Results
Detected in Drum and Container Samples
Riverside Avenue Site

			B0043/MB0043		B0034 (MB0034)		B0002/MB002		B0007/MB0007		B0008/MB0008	
			B7-CS-02		B7-CS-03		B12-DS-02		B12-PS-01		B12-DS-01	
Field QC												
Matrix :			Waste		Waste		Waste		Oil		Waste	
Units :			ug/L		ug/Kg		ug/L		ug/L		ug/L	
Laboratory			A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:			40200		40200		40200		40200		40200	
SDG:			B0023 (MB0025)		B008 (MB0002)		B0002/MB002		B0002/MB002		B0002/MB002	
Date Sampled :			6/9/2010		6/9/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :			11:27		9:56		9:15		9:20		9:15	
Compound	QL	TCLP Regulatory Limit	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Vinyl chloride	5	200		R		R		R				R
1,1-Dichloroethene	5	700		R		R		R				R
2-Butanone	10	200000		R		R		R				R
Chloroform	5	6000		R		R		R				R
Carbon tetrachloride	5	500		R		R		R				R
Benzene	5	500		R		R		R				R
1,2-Dichloroethane	5	500		R		R		R				R
Trichloroethene	5	500		R		R		R				R
Tetrachloroethene	5	700		R		R		R				R
Chlorobenzene	5	100000		R		R		R				R
1,4-Dichlorobenzene	5	7500		R		R		R				R
2-Methylphenol	5	200000		U		U		U				U
3-Methylphenol + 4-Methylphenol	5	200000		U		U		U				U
Total Cresol	5	200000		U		U		U				U
Hexachloroethane	5	3000		U		U		U				U
Nitrobenzene	5	2000		U		U		U				U
Hexachlorobutadiene	5	500		U		U		U				U
2,4,6-Trichlorophenol	5	2000		U		U		U				U
2,4,5-Trichlorophenol	5	400000		U		U		U				U
2,4-Dinitrotoluene	5	130		U		U		U				U
Hexachlorobenzene	5	130		U		U		U				U
Pentachlorophenol	10	100000		U		U		U				U
Pyridine	5	5000	98000	J		U		U				U
gamma-BHC (Lindane)	0.05	400		UJ		UJ		UJ				UJ
Heptachlor	0.05	8		UJ		UJ		UJ				UJ
Heptachlor epoxide	0.05	8		UJ		UJ		UJ				UJ
Endrin	0.1	20		UJ		UJ		UJ				UJ
Methoxychlor	0.5	10000		UJ		UJ		UJ				UJ
alpha-Chlordane	0.05	30		UJ		UJ		UJ				UJ
gamma-Chlordane	0.05	30		UJ		UJ		UJ				UJ
Toxaphene	5	500		UJ		UJ		UJ				UJ
2,4-D	2.5	10000	19	J		UJ	4.5	J	2.4	J		UJ
2,4,5-TP (Silvex)	0.5	1000		U		UJ		UJ		UJ		UJ
Arsenic	10	5000		UJ		UJ	14.9	J	17	J		UJ
Barium	200	100000		U		U	229	J		UJ		UJ
Cadmium	5	1000		U	4.8	J		U		U		U
Chromium	10	5000		U		U		U		U		U
Lead	10	5000		UJ		UJ		U	15.3			U
Mercury	0.2	200		U		U	0.13	J		U		U
Selenium	35	1000		UJ		UJ		U		U		U
Silver	10	5000		UJ		UJ		U		U		U

Table 10
Summary of TCLP Results
Detected in Drum and Container Samples
Riverside Avenue Site

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
Sample number for organic analysis starts with "B", sample number for inorganic
Shaded cell indicates analysis not completed.
ug/L = Micrograms per liter
CS = Container sample
DS = srum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the ap
PS = Pail Sample
QC = Quality Control
QL = Quantitation limit
R = Unsuable result. Analyte may or may not be present in the sample. Supporti
SDG = Sample Delivery Group
U = Not detected above the reporting detection limit.
UJ = Not detected above the reporting detection limit. Reporting detection limit i

Table 11
Summary of Volatile Organic Compounds
Detected in Pigment Samples
Riverside Avenue Site

Sample Number :		B0005		B0006	
Sampling Location :		B12-PM-01		B12-PM-02	
Field QC					
Matrix :		Waste		Waste	
Units :		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific	
Case #:		40200		40200	
SDG:		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010	
Time Sampled :		10:05		10:10	
Volatile Compound	QL	Result	Flag	Result	Flag
Acetone	500	710		270	J
Methyl acetate	250	230	J	380	
Methylene chloride	250	300		210	J
Methyl tert-butyl ether	250				
2-Butanone	500				
Bromochloromethane	250				
1,1,1-Trichloroethane	250				
Cyclohexane	250				
Carbon tetrachloride	250				
Toluene	250	4300			
m,p-Xylene	250			91	J

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B12 = Building 12
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
PM = Pigment material
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group

Table 12
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Pigment Samples
Riverside Avenue Site

Sample Number :	B0005			B0006		
Sampling Location :	B12-PM-01			B12-PM-02		
Field QC						
Matrix :	Waste			Waste		
Units :	ug/Kg			ug/Kg		
Laboratory	A4 Scientific			A4 Scientific		
Case #:	40200			40200		
SDG:	B0005			B0005		
Date Sampled :	6/8/2010			6/8/2010		
Time Sampled :	10:05			10:10		
Volatiles	TIC	Result	Flag	TIC	Result	Flag
	None detected			Benzene, 1-methyl-2-(1-meth...	450	JN
				Unknown-01 (12.88)	290	J
				Nonanal	350	JN
				Benzene, 1,2,3,4-tetramethyl- (01)	310	JN
				Benzene, 1,2,3,4-tetramethyl- (02)	680	JN
				Unknown-02 (12.88)	300	J
				Unknown-03 (12.88)	420	J
				Unknown-04 (12.88)	290	J
				Benzene, 1,2,4,5-tetramethyl-	920	JN
				Benzene, 1,3-dimethyl-5-(1-... (02)	440	JN
				Total Alkane TICs	9800	J

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B12 = Building 12
DS = Drum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
PM = Pigment material
PS = Pail sample
TAR = Tar sample
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TIC = Tentatively identified compound

Table 13
Summary of Semivolatile Organic Compounds
Detected in Pigment Samples
Riverside Avenue Site

Sample Number :		B0005		B0006	
Sampling Location :		B12-PM-01		B12-PM-02	
Field QC					
Matrix :		Waste		Waste	
Units :		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific	
Case #:		40200		40200	
SDG:		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010	
Time Sampled :		10:05		10:10	
Semivolatile Compound	QL	Result	Flag	Result	Flag
Di-n-butylphthalate	5			1300	J
Bis(2-ethylhexyl)phthalate	5	34000	J		UJ

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
PM = Pigment material
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
UJ = Not detected above the reporting detection limit. Reporting detection limit is estimated.

Table 14
Summary of Pesticides
Detected in Pigment Samples
Building 12
Riverside Avenue Site

Sample Number :		B0005		B0006	
Sampling Location :		B12-PM-01		B12-PM-02	
Field QC					
Matrix :		Waste		Waste	
Units :		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific	
Case #:		40200		40200	
SDG:		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010	
Time Sampled :		10:05		10:10	
Pesticide	QL	Result	Flag	Result	Flag
alpha-BHC	1.7		UJ		UJ
beta-BHC	1.7		UJ		UJ
delta-BHC	1.7		UJ		UJ
gamma-BHC (Lindane)	1.7		UJ		UJ
Heptachlor	1.7		UJ		UJ
Aldrin	1.7		UJ		UJ
Heptachlor epoxide	1.7		UJ		UJ
Endosulfan I	1.7		UJ		UJ
Dieldrin	3.3		UJ		UJ
4,4'-DDE	3.3		UJ		UJ
Endrin	3.3		R		R
Endosulfan II	3.3		UJ		UJ
4,4'-DDD	3.3		UJ		UJ
Endosulfan sulfate	3.3		R		R
4,4'-DDT	3.3		UJ		UJ
Methoxychlor	17		UJ		UJ
Endrin ketone	3.3		UJ		UJ
Endrin aldehyde	3.3		UJ		UJ
alpha-Chlordane	1.7		UJ		UJ
gamma-Chlordane	1.7		UJ		UJ
Toxaphene	170		UJ		UJ

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
PM = Pigment material
QC = Quality Control
QL = Quantitation limit
R = Unsuable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
SDG = Sample Delivery Group
UJ = Not detected above the reporting detection limit. Reporting detection limit is estimated.

Table 15
Summary of Aroclor Compounds
Detected in Pigment Samples
Riverside Avenue Site

Sample Number :		B0005		B0006	
Sampling Location :		B12-PM-01		B12-PM-02	
Field QC					
Matrix :		Waste		Waste	
Units :		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific	
Case #:		40200		40200	
SDG:		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010	
Time Sampled :		10:05		10:10	
Aroclor Compound	QL	Result	Flag	Result	Flag
Aroclor-1016	33		U		U
Aroclor-1221	33		U		U
Aroclor-1232	33		U		U
Aroclor-1242	33		U		U
Aroclor-1248	33		U		U
Aroclor-1254	33		U		U
Aroclor-1260	33		U		U
Aroclor-1262	33		U		U
Aroclor-1268	33		U		U

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
Flag = Data qualifier
PM = Pigment material
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
U = Not detected above the reporting detection limit.

Table 16
Summary of Inorganic Compounds
Detected in Pigment Samples
Riverside Avenue Site

Sample Number :		MB0005		MB0006	
Sampling Location :		B12-PM-01		B12-PM-02	
Field QC :					
Matrix :		Waste		Waste	
Units :		mg/kg		mg/kg	
Laboratory		Bonner		Bonner	
Case #:		40200		40200	
SDG:		MB0008		MB0008	
Date Sampled :		6/8/2010		6/8/2010	
Time Sampled :		1005		1010	
ANALYTE	QL	Result	Flag	Result	Flag
ALUMINUM	20	444		670	
ANTIMONY	6	1.8	J	0.57	J
ARSENIC	1	7.2		2.9	
BARIUM	20	86.1		40.6	
BERYLLIUM	0.5				
CADMIUM	0.5	3.7		0.98	
CALCIUM	500	33400	J	5400	J
CHROMIUM	1	345	J	19.9	J
COBALT	5	11.7		2.1	J
COPPER	2.5	446		9310	
IRON	10	102000	J	16000	J
LEAD	1	143	J	30.6	J
MAGNESIUM	500	2580		3680	
MANGANESE	1.5	416	J	134	
MERCURY	0.1	1.7	J	8.9	J
NICKEL	4	152		38.6	
POTASSIUM	500	633		9130	
SELENIUM	3.5			2.8	J
SILVER	1	7.4		1.7	
SODIUM	500	2760	J	3040	J
THALLIUM	2.5				
VANADIUM	5	3.9	J	2	J
ZINC	6	530	J	188	J
CYANIDE	2.5	3.6	J		

Notes:
mg/Kg = Milligrams per kilogram
Empty cell indicates parameter not detected above the reported detection limit.
Shaded cell indicates analysis not completed.
ug/Kg = micrograms per kilogram
DS = Drum sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
PM = Pigment material
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group

Table 17
Summary of Volatile Organic Compounds
Detected in Basement Water Samples
Riverside Avenue Site

Sample Number :		B0003		B0004		B0010		B0012		B0031		B0033	
Sampling Location :		B7-BW-01		B12-AQ-01		B7-BW-02		B7-BW-03		RAS-FB-01		RAS-TB-01	
Field QC		Dup B7-BW-03						Dup B7-BW-01					
Matrix :		Basement Water		Basement Water		Basement Water		Basement Water		Field Blank		Trip Blank	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200		40200	
SDG:		B0003		B0003		B0003		B0003		B0003		B0003	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010		6/9/2010	
Time Sampled :		11:15		9:30		12:15		11:20		8:12		8:07	
Volatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1-Dichloroethene	5	6.7	J					5.3	J				
Acetone	10	350		8.7	J			290		7.4	J	6.7	J
Methyl acetate	5	13						12	J				
Methylene chloride	5	240		13		1.5	J	210	J	4.5	J	4	J
1,1-Dichloroethane	5	150						140	J				
2-Butanone	10	370						310		2.4	J		
Chloroform	5	10											
1,1,1-Trichloroethane	5	190		5.5				190	J				
Carbon tetrachloride	5	33	J										
Benzene	5	24						24					
Trichloroethene	5	19						19					
cis-1,3-Dichloropropene	5									2.4	J		
4-Methyl-2-pentanone	10	55						48					
Toluene	5	430		1.6	J			420		1.7	J	1.7	J
trans-1,3-Dichloropropene	5									1.5	J		
Tetrachloroethene	5	7.6	J					7.3	J				
Chlorobenzene	5	2.8	J					2.6	J				
Ethylbenzene	5	390						370					
o-Xylene	5	74						71					
m,p-Xylene	5	110		0.86	J			110					
Styrene	5	40						38					
Isopropylbenzene	5	15						13					
1,4-Dichlorobenzene	5	4.2	J	0.58	J			4.3	J				
1,2-Dichlorobenzene	5	23						22					
1,2,4-Trichlorobenzene	5	55		1.2	J			53					
1,2,3-Trichlorobenzene	5	14						13					

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/L = micrograms per liter
AQ = Aqueous sample
BW = Basement water
Dup = Duplicate sample
FB = Field Blank
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TB = Trip Blank

Table 18
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Basement Water Samples
Riverside Avenue Site

Sample Number :	B0003			B0012			B0033		
Sampling Location :	B7-BW-01			B7-BW-03			RAS-TB-01		
Field QC	Dup B7-BW-03			Dup B7-BW-01					
Matrix :	Basement Water			Basement Water			Field Blank		
Units :	ug/L			ug/L			ug/L		
Laboratory	A4 Scientific			A4 Scientific			A4 Scientific		
Case #:	40200			40200			40200		
SDG:	B0003			B0003			B0003		
Date Sampled :	6/8/2010			6/8/2010			6/9/2010		
Time Sampled :	11:15			11:20			8:07		
Volatiles	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag
	Diisopropyl Ether	790	JN	Diisop	730	JN	Cyclotet	5.3	JN
	Propane, 1-bromo-2-methyl-	130	JN	Propa	120	JN			
	Benzene, propyl-	55	JN	Benze	53	JN			
	Benzene, 1-ethyl-3-methyl-	250	JN	Benze	260	JN			
	Benzene, 1,2,3-trimethyl- (01)	150	JN	Benze	150	JN			
	Benzene, 1-ethyl-2-methyl-	100	JN	Benze	100	JN			
	Benzene, 1,2,3-trimethyl- (02)	260	JN	Benze	260	JN			
	Benzene, 1,2,3-trimethyl- (03)	85	JN	Benze	83	JN			
	Benzene, 1,3-diethyl-	25	JN	Benze	24	JN			
	Benzene, 1-ethyl-2,4-dimethyl-	62	JN	Benze	61	JN			
	Benzene, 1,2,4,5-tetramethyl- (0	36	JN	Benze	35	JN			
	Benzene, 1,2,4,5-tetramethyl- (0	50	JN	Benze	49	JN			
	Naphthalene, 1,2,3,4-tetrah...	45	JN	Napht	44	JN			

Notes:
No TICs identified in B0004 (B12-AQ-01) or B0010 (B7-BW-01), or B0031 (RAS-FB-01).
ug/L = micrograms per liter
AQ = Aqueous sample
BW = Basement water
Dup = Duplicate sample
FB = Field Blank
Flag = Data qualifier
JN = Estimated concentration of tenatively identified compound.
QC = Quality Control
QL = Quantitation limit
RAS = Riverside assessment sampling
SDG = Sample Delivery Group
TB = Trip Blank
TIC = Tentatively identified compound

Table 19
Summary of Semivolatile Organic Compounds
Detected in Basement Water Samples
Riverside Avenue Site

Sample Number :		B0003		B0004		B0010		B0012		B0031	
Sampling Location :		B7-BW-01		B12-AQ-01		B7-BW-02		B7-BW-03		RAS-FB-01	
Field QC		Dup B7-BW-03						Dup B7-BW-01			
Matrix :		Basement Water		Basement Water		Basement Water		Basement Water		Field Blank	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200	
SDG:		B0003		B0003		B0003		B0003		B0003	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010	
Time Sampled :		11:15		9:30		12:15		11:20		8:12	
Semivolatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Phenol	5	500				13000			U	7.6	
2-Methylphenol	5	1100				13000		33	J	5.5	J
Acetophenone	5	61	J					17	J	2.8	J
4-Methylphenol	5	90	J			4700				1.5	J
Nitrobenzene	5	64	J								
Isophorone	5									1	J
2,4-Dimethylphenol	5	64	J			670	J	12	J		
Naphthalene	5								U	0.38	J
4-Chloroaniline	5	24	J					14	J		
Caprolactam	5							11	J		
4-Chloro-3-methylphenol	5									8.4	
1,1'-Biphenyl	5							3.5	J		
Diethylphthalate	5	41	J			250	J	35	J		
Di-n-butylphthalate	5			0.55	J					2.1	J
Bis(2-ethylhexyl)phthalate	5			2.1	J					6.4	

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/L = micrograms per liter
AQ = Aqueous sample
BW = Basement water
Dup = Duplicate sample
FB = Field Blank
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TB = Trip Blank

Table 20
Summary of Pesticides
Detected in Basement Water Samples
Riverside Avenue Site

Sample Number :		B0003		B0004		B0010		B0012		B0031	
Sampling Location :		B7-BW-01		B12-AQ-01		B7-BW-02		B7-BW-03		RAS-FB-01	
Field QC		Dup B7-BW-03						Dup B7-BW-01			
Matrix :		Basement Water		Basement Water		Basement Water		Basement Water		Field Blank	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200	
SDG:		B0003		B0003		B0003		B0003		B0003	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010	
Time Sampled :		11:15		9:30		12:15		11:20		8:12	
Pesticide	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.05					310	JN				
beta-BHC	0.05										
delta-BHC	0.05										
gamma-BHC (Lindane)	0.05										
Heptachlor	0.05										
Aldrin	0.05										
Heptachlor epoxide	0.05										
Endosulfan I	0.05										
Dieldrin	0.1										
4,4'-DDE	0.1										
Endrin	0.1										
Endosulfan II	0.1										
4,4'-DDD	0.1										
Endosulfan sulfate	0.1										
4,4'-DDT	0.1										
Methoxychlor	0.5										
Endrin ketone	0.1										
Endrin aldehyde	0.1										
alpha-Chlordane	0.05										
gamma-Chlordane	0.05					140	J				
Toxaphene	5										

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/L = Micrograms per liter
B7 = Building 7
B12 = Building 12
BW = Basement water
Dup = Duplicate sample
FB = Field Blank
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
QC = Quality Control
QL = Quantitation limit
RAS = Riverside assessment sampling
TB = Trip Blank
SDG = Sample Delivery Group

Table 21
Summary of Aroclor Compounds
Detected in Basement Water Samples
Riverside Avenue Site

Sample Number :		B0003		B0004		B0010		B0012		B0031	
Sampling Location :		B7-BW-01		B12-AQ-01		B7-BW-02		B7-BW-03		RAS-FB-01	
Field QC		Dup B7-BW-03						Dup B7-BW-01			
Matrix :		Basement Water		Basement Water		Basement Water		Basement Water		Field Blank	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200		40200	
SDG:		B0003		B0003		B0003		B0003		B0003	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010		6/9/2010	
Time Sampled :		11:15		9:30		12:15		11:20		8:12	
Aroclor Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33		U		U		U		U		U
Aroclor-1221	33		U		U		U		U		U
Aroclor-1232	33		U		U		U		U		U
Aroclor-1242	33		U		U		U		U		U
Aroclor-1248	33		U		U		U		U		U
Aroclor-1254	33		U		U		U		U		U
Aroclor-1260	33		U		U		U		U		U
Aroclor-1262	33		U		U		U		U		U
Aroclor-1268	33		U		U		U		U		U

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/L = micrograms per liter
B7 = Building 7
B12 = Building 12
BW = Basement water
Flag = Data qualifier
FB = Fiedl Blank
QC = Quality Control
QL = Quantitation limit
RAS = Riverside Avenue Site
SDG = Sample Delivery Group
U = Analyte not detected above reported detection limit.

Table 22
Summary of Volatile Organic Compounds
Detected in Basement Sediment Samples
Riverside Avenue Site

Sample Number :		B0009		B0013		B0014		B0015	
Sampling Location :		B12-SED-01		B7-SED-02		B7-SED-03		B7-SED-04	
Field QC				Dup of B7-SED-03		Dup B7-SED-02			
Matrix :		Waste		Waste		Waste		Waste	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200	
SDG:		B0005		B0005		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		9:45		11:45		11:50		12:30	
Volatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloro-1,2,2-trifluoroethane	250			150	J	3700		27000	
Acetone	500			250	J	220	J	11000	J
Methyl acetate	250							12000	J
Methylene chloride	250	11000	J	540		560		220000	
2-Butanone	500					230	J	120000	
Chloroform	250							110000	
1,1,1-Trichloroethane	250					230	J	1100000	
Benzene	250					430			
Trichloroethene	250					60	J	5200	J
Methylcyclohexane	250					120	J	2900	J
4-Methyl-2-pentanone	500							24000	J
Toluene	250			3100		8300		230000	
Tetrachloroethene	250			110	J	2100		280000	
2-Hexanone	500					2200			
Chlorobenzene	250			100	J	300		2200	J
Ethylbenzene	250			3900		12000		58000	
1,1,2-Trichloroethane	250					350			
o-Xylene	250			1600		6100		91000	
m,p-Xylene	250	5800	J	2000		7500		240000	
Styrene	250			860		2800		230000	
Bromoform	250	15000							
Isopropylbenzene	250			900		3800			
1,1,2,2-Tetrachloroethane	250			380		2300			
1,3-Dichlorobenzene	250			150	J	560		5000	J
1,4-Dichlorobenzene	250			620		2600		5600	J
1,2-Dichlorobenzene	250			310		1300		59000	
1,3-Dichlorobenzene	250	4400	J						
1,2,4-Trichlorobenzene	250	2600000		820		4100		290000	
1,2,3-Trichlorobenzene	250	1300000		260		1400		58000	

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
B12 = Building 12
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
SED = Sediment

Table 23
Summary of Volatile Organic Compounds
Tenatively Identified Compounds
Detected in Basement Sediment Samples
RIverside Avenue Site

Sample Number :	B0009			B0013			B0014			B0015		
Sampling Location :	B12-SED-01			B7-SED-02			B7-SED-03			B7-SED-04		
Field QC				Dup of B7-SED-03			Dup B7-SED-02					
Matrix :	Waste			Waste			Waste			Waste		
Units :	ug/Kg			ug/Kg			ug/Kg			ug/Kg		
Laboratory	A4 Scientific			A4 Scientific			A4 Scientific			A4 Scientific		
Case #:	40200			40200			40200			40200		
SDG:	B0005			B0005			B0005			B0005		
Date Sampled :	6/8/2010			6/8/2010			6/8/2010			6/8/2010		
Time Sampled :	9:45			11:45			11:50			12:30		
Volatiles	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag	TIC	Result	Flag
	Benzene, 1,2,4-trichloro-	16000	JN	Benzene, propyl-	2700	JN	cis-1-Ethyl-3-methyl-cycloh...	6500	JN	Unknown-01 (5.43)	140000	J
				Benzene, 1-ethyl-3-methyl-	10000	JN	Unknown-01 (9.33)	3000	J	Diisopropyl Ether	110000	JN
				Benzene, 1,3,5-trimethyl-	6600	JN	Benzene, propyl-	6000	JN	Propane, 1-bromo-2-methyl-	490000	JN
				Benzene, 1-ethyl-2-methyl-	3600	JN	Benzene, 1-ethyl-3-methyl-	21000	JN	Benzene, methoxy-	120000	JN
				Benzene, 1,2,3-trimethyl- (01)	11000	JN	Benzene, 1,2,3-trimethyl- (01)	15000	JN	Benzene, 1-chloro-2-methyl-	67000	JN
				Benzene, 1,2,3-trimethyl- (02)	3300	JN	Benzene, 1-ethyl-2-methyl-	8300	JN	Benzene, 1-ethyl-3-methyl-	33000	JN
				Benzene, 1,3-diethyl-	940	JN	Benzene, 1,3,5-trimethyl-	22000	JN	Benzene, 1,3,5-trimethyl- (01)	35000	JN
				Benzene, 2-ethyl-1,3-dimethyl-	990	JN	Benzene, 1,2,3-trimethyl- (02)	7500	JN	Benzene, 1,3,5-trimethyl- (02)	66000	JN
				Benzene, 1-methyl-2-(1-meth...	2900	JN	Benzene, 2-ethyl-1,4-dimethyl-	1900	JN	Unknown-02 (12.88)	58000	J
				Benzene, 1,2,4,5-tetramethyl- (01)	1500	JN	Benzene, 1-ethyl-2,4-dimethyl-	2400	JN	Unknown-03 (12.88)	22000	J
				Benzene, 1,2,4,5-tetramethyl- (02)	1800	JN	Benzene, 1-methyl-2-(1-meth...	7000	JN	Unknown-04 (12.88)	25000	J
				Naphthalene, 1,2,3,4-tetrah... (01)	1200	JN	Unknown-02 (12.88)	2300	J	Unknown-05 (12.88)	21000	J
				Naphthalene, 1,2,3,4-tetrah... (02)	1000	JN	Benzene, 1,2,4,5-tetramethyl-	3400	JN	Naphthalene, 1,2,3,4-tetrah...	300000	JN
				Naphthalene, 1-methyl-	1500	JN	Unknown-03 (12.88)	4300	J	Unknown-06 (12.88)	19000	J
				Total Alkane TICs	16000	J	Naphthalene, 1,2,3,4-tetrah... (01)	3100	JN	Naphthalene, 1-chloro- (01)	19000	JN
							Naphthalene, 1,2,3,4-tetrah... (02)	2400	JN	Naphthalene, 1-chloro- (02)	180000	JN
							Naphthalene, 1-methyl-	4000	JN			
							Total Alkane TICs	47000	J			

Notes:
ug/Kg = micrograms per kilogram
B7 = Building 7
B12 = Building 12
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
SED = Sediment
TIC = Tentatively identified compound

Table 24
Summary of Semivolatile Organic Compounds
Detected in Basement Sediment Samples
Riverside Avenue Site

Sample Number :		B0009		B0013		B0014		B0015	
Sampling Location :		B12-SED-01		B7-SED-02		B7-SED-03		B7-SED-04	
Field QC				Dup of B7-SED-03		Dup B7-SED-02			
Matrix :		Waste		Waste		Waste		Waste	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200	
SDG:		B0005		B0005		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		9:45		11:45		11:50		12:30	
Semivolatile Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Phenol	5							2200000	
2-Methylphenol	5	7100	J	8900	J			4700000	
Acetophenone	5							430000	J
4-Methylphenol	5							1400000	
2,4-Dimethylphenol	5							430000	J
4-Chloroaniline	5			46000	J	70000	J		
2-Methylnaphthalene	5			4000	J	4200	J		
1,1'-Biphenyl	5							56000	J
2-Chloronaphthalene	5							110000	J
Diethylphthalate	5							240000	J
Fluoranthene	5					4400	J		
Bis(2-ethylhexyl)phthalate	5							230000	J

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
B12 = Building 12
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
Sed = Sediment Sample

Table 25
Summary of Pesticides
Detected in Basement Sediment Samples
Riverside Avenue Site

Sample Number :		B0013		B0014		B0015		B0009	
Sampling Location :		B7-SED-02		B7-SED-03		B7-SED-04		B12-SED-01	
Field QC		Dup of B7-SED-03		Dup B7-SED-02					
Matrix :		Waste		Waste		Waste		Waste	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200	
SDG:		B0005		B0005		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		11:45		11:50		12:30		9:45	
Pesticide	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7		UJ		UJ		UJ		UJ
beta-BHC	1.7		UJ		UJ		UJ		UJ
delta-BHC	1.7		UJ		UJ		UJ		UJ
gamma-BHC (Lindane)	1.7		UJ		UJ		UJ		UJ
Heptachlor	1.7		UJ		UJ		UJ		UJ
Aldrin	1.7		UJ		UJ		UJ		UJ
Heptachlor epoxide	1.7		UJ		UJ		UJ		UJ
Endosulfan I	1.7		UJ		UJ		UJ		UJ
Dieldrin	3.3		UJ		UJ		UJ		UJ
4,4'-DDE	3.3		UJ		UJ		UJ		UJ
Endrin	3.3		R		R		R		R
Endosulfan II	3.3		UJ		UJ		UJ		UJ
4,4'-DDD	3.3		UJ		UJ		UJ		UJ
Endosulfan sulfate	3.3		R		R		R		R
4,4'-DDT	3.3		UJ		UJ		UJ		UJ
Methoxychlor	17		UJ		UJ		UJ		UJ
Endrin ketone	3.3		UJ		UJ		UJ		UJ
Endrin aldehyde	3.3		UJ		UJ		UJ		UJ
alpha-Chlordane	1.7		UJ		UJ		UJ		UJ
gamma-Chlordane	1.7		UJ		UJ		UJ		UJ
Toxaphene	170		UJ		UJ		UJ		UJ

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
B12 = Building 12
Flag = Data qualifier
QC = Quality Control
QL = Quantitation limit
R = Unsuable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
SDG = Sample Delivery Group
Sed = Sediment Sample
U = Not detected above the reporting detection limit.
UJ = Not detected above the reported detection limit. Detection limit is approximate.

Table 26
Summary of Aroclor Compounds
Detected in Basement Sediment Samples
Riverside Avenue Site

Sample Number :		B0013		B0014		B0015		B0009	
Sampling Location :		B7-SED-02		B7-SED-03		B7-SED-04		B12-SED-01	
Field QC		Dup B7-SED-03		Dup B7-SED-02					
Matrix :		Waste		Waste		Waste		Waste	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific		A4 Scientific		A4 Scientific	
Case #:		40200		40200		40200		40200	
SDG:		B0005		B0005		B0005		B0005	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		11:45		11:50		12:30		9:45	
Aroclor Compound	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33		U		U		U		R
Aroclor-1221	33		U		U		U		R
Aroclor-1232	33		U		U		U		R
Aroclor-1242	33		U		U		U		R
Aroclor-1248	33		U		U		U		R
Aroclor-1254	33		U		U		U		R
Aroclor-1260	33		U		U		U		R
Aroclor-1262	33		U		U		U		R
Aroclor-1268	33		U		U		U		R

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
B12 = Building 12
Flag = Data qualifier
QC = Quality Control
QL = Quantitation limit
R = Unsuable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
SDG = Sample Delivery Group
Sed = Sediment Sample
U = Not detected above the reporting detection limit.

Table 27
Summary of Inorganic Compounds
Detected in Basement Sediment Samples
Riverside Avenue Site

Sample Number :		MB0009		MB0013		MB0014		MB0015	
Sampling Location :		B12-SED-01		B7-SED-02		B7-SED-03		B7-SED-04	
Field QC :									
Matrix :		Sediment		Sediment		Sediment		Sediment	
Units :		mg/kg		mg/kg		mg/kg		mg/kg	
Laboratory		Bonner		Bonner		Bonner		Bonner	
Case #:		40200		40200		40200		40200	
SDG:		MB0008		MB0008		MB0008		MB007	
Date Sampled :		6/8/2010		6/8/2010		6/8/2010		6/8/2010	
Time Sampled :		945		1145		1150		1230	
ANALYTE	QL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	20			4330				364	
ANTIMONY	6								
ARSENIC	1			4.3				0.24	J
BARIUM	20			95.5				34.2	
BERYLLIUM	0.5							0.02	J
CADMIUM	0.5			1.4				0.37	
CALCIUM	500	8.6	J	5000		8.1	J	1400	
CHROMIUM	1	0.08	J	22.2		0.092	J	3.8	
COBALT	5			8.1				1.3	J
COPPER	2.5			53				58.5	
IRON	10	3.9	J	31700	J	7.3	J	7320	
LEAD	1			171	J			26.5	
MAGNESIUM	500			3260				445	
MANGANESE	1.5			156				60.4	
MERCURY	0.1	120	J	0.34	J	0.42	J	0.18	
NICKEL	4			20.9				4.6	
POTASSIUM	500			285	J				
SELENIUM	3.5			2.5	J				
SILVER	1			3.2					
SODIUM	500	5.5	J	296	J	5.4	J		
THALLIUM	2.5								
VANADIUM	5			18				2.6	
ZINC	6			157	J			308	
CYANIDE	2.5	4.7	J						

Notes:
mg/Kg = Milligrams per kilogram
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
Sed = Sediment samples

Table 28
Summary of Volatile Organic Compound
Analytical Results
Tar Material Sample
Riverside Avenue Sites

Sample Number :	B0016
Sampling Location :	B7-TAR-01
Field QC	
Matrix :	Waste
Units :	ug/Kg
Laboratory	A4 Scientific
Case #:	40200
SDG:	B0005
Date Sampled :	6/8/2010
Time Sampled :	14:45

Volatile Compound	QL	Result	Flag
Acetone	500	1600	
Methyl acetate	250	170	J
Methylene chloride	250	300	
2-Butanone	500	260	J
Cyclohexane	250	63	J
Methylcyclohexane	250	700	
Toluene	250	130	J
Ethylbenzene	250	460	
o-Xylene	250	2700	
m,p-Xylene	250	2900	
Isopropylbenzene	250	1000	

Notes:
Empty cell indicates parameter not detected above the reported sample quantitation limit.
ug/kg = Micrograms per kilogram
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group

Table 29
Summary of Volatile Organic Compound
Tenatively Identified Compounds
Tar Sample
Riverside Avenue Site

Sample Number :	B0016		
Sampling Location :	B7-TAR-01		
Field QC			
Matrix :	Waste		
Units :	ug/Kg		
Laboratory	A4 Scientific		
Case #:	40200		
SDG:	B0005		
Date Sampled :	6/8/2010		
Time Sampled :	14:45		
Volatiles	TIC	Result	Flag
	Bicyclo[3.2.1]octane	2200	JN
	Benzene, 1-ethyl-2-methyl- (01)	5400	JN
	Benzene, 1,2,3-trimethyl- (01)	10000	JN
	Benzene, 1-ethyl-2-methyl- (02)	3900	JN
	Benzene, 1,2,3-trimethyl- (02)	16000	JN
	Unknown-01 (12.88)	1800	J
	Benzene, 1,2,3-trimethyl- (03)	9800	JN
	Benzene, 1-ethyl-3,5-dimethyl-	12000	JN
	Benzene, 2-ethyl-1,4-dimethyl- (01)	5000	JN
	Benzene, 1-methyl-2-(1-meth...	5700	JN
	Benzene, 4-ethyl-1,2-dimethyl-	11000	JN
	Indan, 1-methyl-	2300	JN
	Unknown-02 (12.88)	7600	J
	Unknown-03 (12.88)	2700	J
	Benzene, 2-ethyl-1,4-dimethyl- (02)	4100	JN
	Benzene, 1,2,4,5-tetramethyl- (01)	6600	JN
	Benzene, 1,2,4,5-tetramethyl- (02)	10000	JN
	Unknown-04 (12.88)	3300	J
	Benzene, 1,2,4,5-tetramethyl- (03)	10000	JN
	Benzene, 1-methyl-4-(1-meth... (03)	1800	JN
	Naphthalene, 1,2,3,4-tetrah...	3000	JN
	Unknown-05 (12.88)	3400	J
	Total Alkane TICs	49000	J

Notes:
ug/Kg = micrograms per kilogram
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
JN = Estimated concentration of tenatively identified compound.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TAR = Tar sample
TIC = Tentatively identified compound

Table 30
Summary of Semivolatile Organic Compounds
Detected in Tar Samples
Riverside Avenue Site

Sample Number :		B0016	
Sampling Location :		B7-TAR-01	
Field QC			
Matrix :		Waste	
Units :		ug/Kg	
Laboratory		A4 Scientific	
Case #:		40200	
SDG:		B0005	
Date Sampled :		6/8/2010	
Time Sampled :		14:45	
Semivolatile Compound	QL	Result	Flag
Acetophenone	5	83000	J
Naphthalene	5	79000	J
2-Methylnaphthalene	5	21000	J
4,6-Dinitro-2-methylphenol	10	11000	J

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TAR = Tar sample

Table 31
Summary of Pesticides
Detected in Tar Samples
Riverside Avenue Site

Sample Number :		B0016	
Sampling Location :		B7-TAR-01	
Field QC			
Matrix :		Waste	
Units :		ug/Kg	
Laboratory		A4 Scientific	
Case #:		40200	
SDG:		B0005	
Date Sampled :		6/8/2010	
Time Sampled :		14:45	
Pesticide	QL	Result	Flag
alpha-BHC	1.7		
beta-BHC	1.7		
delta-BHC	1.7		
gamma-BHC (Lindane)	1.7		
Heptachlor	1.7		
Aldrin	1.7		
Heptachlor epoxide	1.7		
Endosulfan I	1.7		
Dieldrin	3.3		
4,4'-DDE	3.3		
Endrin	3.3		
Endosulfan II	3.3		
4,4'-DDD	3.3		
Endosulfan sulfate	3.3		
4,4'-DDT	3.3		
Methoxychlor	17		
Endrin ketone	3.3		
Endrin aldehyde	3.3		
alpha-Chlordane	1.7		
gamma-Chlordane	1.7		
Toxaphene	170		

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
B7 = Building 7
Dup = Duplicate sample
Flag = Data qualifier
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
TAR = Tar sample

Table 32
Summary of Aroclor Compounds
Detected in Tar and Riverbank Samples
Riverside Avenue Site

Sample Number :		B0041		B0016	
Sampling Location :		Riverbank-1		B7-TAR-01	
Field QC					
Matrix :		Waste		Waste	
Units :		ug/Kg		ug/Kg	
Laboratory		A4 Scientific		A4 Scientific	
Case #:		40200		40200	
SDG:		B0008		B0005	
Date Sampled :		6/9/2010		6/8/2010	
Time Sampled :		14:00		14:45	
Aroclor compound	QL	Result	Flag	Result	Flag
Aroclor-1016	33		UJ		U
Aroclor-1221	33		UJ		U
Aroclor-1232	33		UJ		U
Aroclor-1242	33		UJ		U
Aroclor-1248	33		UJ		U
Aroclor-1254	33		UJ		U
Aroclor-1260	33		UJ		U
Aroclor-1262	33		UJ		U
Aroclor-1268	33		UJ		U

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
Flag = Data qualifier
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group
UJ = Not detected above the reporting detection limit. Reporting detection limit is estimated.

Table 33
Summary of Inorganic Compounds
Detected in Riverbank Sample
Riverside Avenue Site

Sample Number :	MB0041
Sampling Location :	Riverbank-1
Field QC :	
Matrix :	Sediment
Units :	mg/kg
Laboratory	Bonner
Case #:	40200
SDG:	MB0008
Date Sampled :	6/9/2010
Time Sampled :	1400

ANALYTE	QL	Result	Flag
ALUMINUM	20	527	
ANTIMONY	6		
ARSENIC	1	5	
BARIUM	20	142	
BERYLLIUM	0.5	0.04	J
CADMIUM	0.5	0.38	J
CALCIUM	500	796	
CHROMIUM	1	2.5	J
COBALT	5	2.7	J
COPPER	2.5	66.4	
IRON	10	1440	J
LEAD	1	357	J
MAGNESIUM	500	84.9	J
MANGANESE	1.5	102	
MERCURY	0.1	0.062	J
NICKEL	4	2.7	J
POTASSIUM	500	49.2	J
SELENIUM	3.5	0.89	J
SILVER	1		
SODIUM	500	60.1	J
THALLIUM	2.5		
VANADIUM	5	1.6	J
ZINC	6	179	J
CYANIDE	2.5		

Notes:
mg/Kg = Milligrams per kilogram
Empty cell indicates parameter not detected above the reported detection limit.
ug/Kg = micrograms per kilogram
Dup = Duplicate sample
Flag = Data qualifier
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
QC = Quality Control
QL = Quantitation limit
SDG = Sample Delivery Group

Table 34
Summary of TCLP Results
Riverbank Sample
Riverside Avenue Site

Sample Number :			B0041/MB0041	
Sampling Location :			Riverbank-1	
Field QC				
Matrix :			Waste	
Units :			ug/L	
Laboratory			A4 Scientific	
Case #:			40200	
SDG:			B0008/MB0025	
Date Sampled :			6/9/2010	
Time Sampled :			14:00	
Volatile compound	QL	TCLP Regulatory Limit	Result	Flag
Vinyl chloride	5	200		R
1,1-Dichloroethene	5	700		R
2-Butanone	10	200000		R
Chloroform	5	6000		R
Carbon tetrachloride	5	500		R
Benzene	5	500		R
1,2-Dichloroethane	5	500		R
Trichloroethene	5	500		R
Tetrachloroethene	5	700		R
Chlorobenzene	5	100000		R
1,4-Dichlorobenzene	5	7500		R
2-Methylphenol	5	200000		U
3-Methylphenol + 4-Methylphenol	5	200000		U
Total Cresol	5	200000		U
Hexachloroethane	5	3000		U
Nitrobenzene	5	2000		U
Hexachlorobutadiene	5	500		U
2,4,6-Trichlorophenol	5	2000		U
2,4,5-Trichlorophenol	5	400000		U
2,4-Dinitrotoluene	5	130		U
Hexachlorobenzene	5	130		U
Pentachlorophenol	10	100000		U
Pyridine	5	5000		U
gamma-BHC (Lindane)	0.05	400		UJ
Heptachlor	0.05	8		UJ
Heptachlor epoxide	0.05	8		UJ
Endrin	0.1	20		UJ
Methoxychlor	0.5	10000		UJ
alpha-Chlordane	0.05	30		UJ
gamma-Chlordane	0.05	30		UJ
Toxaphene	5	500		UJ
2,4-D	2.5	10000		UJ
2,4,5-TP (Silvex)	0.5	1000		UJ
Arsenic	10	5000		UJ
Barium	200	100000		U
Cadmium	5	1000		U
Chromium	10	5000		U
Lead	10	5000	5910	
Mercury	0.2	200	1.6	
Selenium	35	1000		UJ
Silver	10	5000		UJ

Table 34
Summary of TCLP Results
Riverbank Sample
Riverside Avenue Site

Notes:
Empty cell indicates parameter not detected above the reported detection limit.
Sample number for organic analysis starts with "B", sample number for inorganic analysis (shown in paraenthesis) starts with "MB"
ug/L = micrograms per liter
Flag = Data qualifier
QC = Quality Control
QL = Quantitation limit
R = Unsuable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
SDG = Sample Delivery Group
U = Not detected above the reporting detection limit.
UJ = Not detected above the reporting detection limit. Reporting detection limit is estimated.

ATTACHMENT 1

IGNITABILITY/CORROSIVITY TEST RESULTS

EMSL Analytical, Inc.

http://www.emsl.com

3 Cooper St.
Westmont, NJ 08108
Phone: (856) 858-4800
Fax: (856) 858-4571

Attn: **K. Scott**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061
Phone: (610) 485-6410
Fax: (610) 485-8587

6/29/2010

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/15/2010. The results are tabulated on the attached data pages for the following client designated project:

The reference number for these samples is EMSL Order #011002680. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 858-4800.

Reviewed and Approved By:

Julie Smith - Laboratory Director or other approved signatory

The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.
NJ-NELAP Accredited: 04653

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **K. Scott**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061
Fax: (610) 485-8587 Phone (610) 485-6410

Customer ID: TTEC50
Customer PO:
Received: 06/15/10 12:30 PM
EMSL Order: 011002680

Analytical Results

Client Sample Description B12-DS-01 *Collected:* 6/8/2010 9:15:00 AM *Lab ID:* 0001

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	8.88	N/A		6/23/2010	bwright

Client Sample Description B12-DS-02 *Collected:* 6/8/2010 9:15:00 AM *Lab ID:* 0002

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	4.58	N/A		6/23/2010	bwright

Client Sample Description B12-PM-01 *Collected:* 6/8/2010 10:05:00 AM *Lab ID:* 0003

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	n/a	N/A		6/23/2010	bwright

Unable to analyze due to sample matrix.

Client Sample Description B12-PM-02 *Collected:* 6/8/2010 10:10:00 AM *Lab ID:* 0004

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	n/a	N/A		6/23/2010	bwright

Unable to analyze due to sample matrix.

Client Sample Description B12-PS-01 *Collected:* 6/8/2010 9:20:00 AM *Lab ID:* 0005

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/24/2010	bwright
9040B	pH	4.00	N/A	ph Units	6/23/2010	bwright

Client Sample Description B7-CS-02 *Collected:* 6/9/2010 11:27:00 AM *Lab ID:* 0006

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	130	N/A	°F	6/24/2010	bwright

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **K. Scott**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061
Fax: (610) 485-8587 Phone (610) 485-6410

Customer ID: TTEC50
Customer PO:
Received: 06/15/10 12:30 PM
EMSL Order: 011002680

Analytical Results

Client Sample Description B7-CS-02 *Collected:* 6/9/2010 11:27:00 AM *Lab ID:* 0006

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
9040B	pH	n/a	N/A	ph Units	6/23/2010	bwright

Unable to analyze due to sample matrix.

Client Sample Description B7-CS-03 *Collected:* 6/9/2010 9:56:00 AM *Lab ID:* 0007

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	9.71	N/A		6/23/2010	bwright

Client Sample Description B7-DS-01 *Collected:* 6/9/2010 9:40:00 AM *Lab ID:* 0008

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	3.38	N/A		6/23/2010	bwright

Client Sample Description B7-P-01 *Collected:* 6/8/2010 3:15:00 PM *Lab ID:* 0009

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	150	N/A	°F	6/24/2010	bwright
9040B	pH	4.34	N/A	ph Units	6/23/2010	bwright

Client Sample Description B7-PS-01 *Collected:* 6/8/2010 11:04:00 AM *Lab ID:* 0010

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/24/2010	bwright
9040B	pH	7.0	N/A	ph Units	6/23/2010	bwright

Client Sample Description B7-PS-02 *Collected:* 6/9/2010 10:33:00 AM *Lab ID:* 0011

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Flashpoint	>180	N/A	°F	6/24/2010	bwright
SM 4500-H B	pH	7.59	N/A	ph Units	6/23/2010	bwright

Sample received outside of the regulatory hold time

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **K. Scott**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061
Fax: (610) 485-8587 Phone (610) 485-6410

Customer ID: TTEC50
Customer PO:
Received: 06/15/10 12:30 PM
EMSL Order: 011002680

Analytical Results

Client Sample Description B7-PS-03 *Collected:* 6/9/2010 11:54:00 AM *Lab ID:* 0012

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010 Modified	Ignitability	>180	N/A	°F	6/24/2010	bwright
9045C	pH	4.51	N/A		6/23/2010	bwright

Client Sample Description B7-SED-02 *Collected:* 6/8/2010 11:45:00 AM *Lab ID:* 0013

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/24/2010	bwright
9040B	pH	6.68	N/A	ph Units	6/23/2010	bwright

Client Sample Description B7-SED-03 *Collected:* 6/8/2010 11:50:00 AM *Lab ID:* 0014

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur
9040B	pH	6.68	N/A	ph Units	6/23/2010	bwright

Client Sample Description RAS-B7-TM-05 *Collected:* 6/8/2010 1:15:00 PM *Lab ID:* 0015

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Flashpoint	>180	N/A	°F	6/28/2010	mmazur
SM 4500-H B	pH	5.15	N/A	ph Units	6/23/2010	bwright

Sample received outside of the regulatory hold time

Client Sample Description RAS-B7-TM-09 *Collected:* 6/8/2010 1:34:00 PM *Lab ID:* 0016

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur
9040B	pH	n/a	N/A	ph Units	6/23/2010	bwright

Unable to analyze due to sample matrix.

Client Sample Description RAS-B7-TM-09-2S *Collected:* 6/8/2010 2:30:00 PM *Lab ID:* 0017

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **K. Scott**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061
Fax: (610) 485-8587 Phone (610) 485-6410

Customer ID: TTEC50
Customer PO:
Received: 06/15/10 12:30 PM
EMSL Order: 011002680

Analytical Results

Client Sample Description RAS-B7-TM-09-2S *Collected:* 6/8/2010 2:30:00 PM *Lab ID:* 0017

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
9040B	pH	7.00	N/A	ph Units	6/23/2010	bwright

Client Sample Description RAS-B7-TM-10 *Collected:* 6/8/2010 1:30:00 PM *Lab ID:* 0018

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur
9040B	pH	7.00	N/A	ph Units	6/23/2010	bwright

Client Sample Description RAS-B7-TM-14A *Collected:* 6/8/2010 9:50:00 AM *Lab ID:* 0019

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur
9040B	pH	7.00	N/A	ph Units	6/23/2010	bwright

Client Sample Description RAS-B7-TM-14B *Collected:* 6/8/2010 10:05:00 AM *Lab ID:* 0020

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur
9040B	pH	7.00	N/A	ph Units	6/23/2010	bwright

Client Sample Description RAS-B7-TM-17 *Collected:* 6/8/2010 12:15:00 PM *Lab ID:* 0021

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Ignitability	>180	N/A	°F	6/28/2010	mmazur
9040B	pH	7.00	N/A	ph Units	6/23/2010	bwright

Client Sample Description RAS-B7-TM-18 *Collected:* 6/8/2010 12:30:00 PM *Lab ID:* 0022

Method	Parameter	Concentration	Reporting Limit	Units	Analysis Date	Analyst
1010	Flashpoint	>180	N/A	°F	6/28/2010	mmazur
SM 4500-H B	pH	6.03	N/A	ph Units	6/23/2010	bwright

Sample received outside of the regulatory hold time

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **K. Scott**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061

Fax: (610) 485-8587 Phone (610) 485-6410

Customer ID: TTEC50
Customer PO:
Received: 06/15/10 12:30 PM
EMSL Order: 011002680

Analytical Results

Client Sample Description RAS-B7-TM-19 *Collected:* 6/8/2010 12:45:00 PM *Lab ID:* 0023

Method	*Parameter*	*Concentration*	*Reporting Limit*	*Units*	*Analysis Date*	*Analyst*
1010	Flashpoint	>180	N/A	°F	6/29/2010	bwright
SM 4500-H B	pH	5.86	N/A	ph Units	6/23/2010	bwright

Sample received outside of the regulatory hold time

Client Sample Description RAS-B7-TM-53A *Collected:* 6/8/2010 11:00:00 AM *Lab ID:* 0024

Method	*Parameter*	*Concentration*	*Reporting Limit*	*Units*	*Analysis Date*	*Analyst*
1010	Flashpoint	>180	N/A	°F	6/29/2010	bwright
SM 4500-H B	pH	7.90	N/A	ph Units	6/23/2010	bwright

Sample received outside of the regulatory hold time

Client Sample Description RAS-B7-TM-53B *Collected:* 6/8/2010 11:15:00 AM *Lab ID:* 0025

Method	*Parameter*	*Concentration*	*Reporting Limit*	*Units*	*Analysis Date*	*Analyst*
1010	Flashpoint	>180	N/A	°F	6/29/2010	bwright
SM 4500-H B	pH	8.14	N/A	ph Units	6/23/2010	bwright

Sample received outside of the regulatory hold time

USEPA Contract Laboratory Program
Generic Chain of Custody

01100 2680

Reference Case 40200
Client No:
SDG No:

L

Date Shipped: 6/14/2010	**Chain of Custody Record**	Sampler Signature: K Scott	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By / (Date / Time)	Received By / (Date / Time)	Lab Contract No:
Airbill:	1 K Scott 6/14/10 1500	E.R. 6/15/10 12:30p	Unit Price:
Shipped to: EMSL, 3 Cooper Street, Westmont NJ 08108, () -	2	4°C WET ICE	Transfer To:
	3		Lab Contract No:
	4		Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
1	B12-DS-01	Waste/ Kevin Scott	H/C	CORR_Ph (14), IGNIT (14)		B12-DS-01	S: 6/8/2010	9:15	
2	B12-DS-02	Waste/ Kevin Scott	H/C	CORR_Ph (14), IGNIT (14)		B12-DS-02	S: 6/8/2010	9:15	
3	B12-PM-01	Waste/ Kevin Scott	H/G	CORR_Ph (14), IGNIT (14)		B12-PM-01	S: 6/8/2010	10:05	
4	B12-PM-02	Waste/ Kevin Scott	H/G	CORR_Ph (14), IGNIT (14)		B12-PM-02	S: 6/8/2010	10:10	
5	B12-PS-01	Oil(High only)/ Kevin Scott	H/G	CORR_Ph (14), IGNIT (14)		B12-PS-01	S: 6/8/2010	9:20	
6	B7-CS-02	Waste/ Kevin Phelan	H/G	CORR_Ph (14), IGNIT (14)		B7-CS-02	S: 6/9/2010	11:27	
7	B7-CS-03	Waste/ Kevin Phelan	H/G	CORR_Ph (14), IGNIT (14)		B7-CS-03	S: 6/9/2010	9:56	
8	B7-DS-01	Waste/ Kevin Phelan	H/G	CORR_Ph (14), IGNIT (14)		B7-DS-01	S: 6/9/2010	9:40	
9	B7-P-01	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)		B7-P-01	S: 6/9/2010	15:15	
10	B7-PS-01	Waste/ Kevin Phelan	H/G	CORR_Ph (14), IGNIT (14)		B7-PS-01	S: 6/9/2010	11:04	

Shipment for Case Complete? ~~N~~ Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	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? ___

CORR_Ph = Corrosivity (pH), IGNIT = Ignitability

TR Number: 2-232373826-061410-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047

Per Kevin, 2wk TAT 12:30p 6/15/10 – E2

Rec'd E.R. 6/15/10 12:30p 4°C WET ICE

USEPA Contract Laboratory Program
Generic Chain of Custody

011002680

Reference Case 40200
Client No:
SDG No:

L

Date Shipped: 6/14/2010	**Chain of Custody Record**	Sampler Signature: KScott	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By / (Date / Time)	Received By / (Date / Time)	Lab Contract No:
Airbill:	1 KScott 6/14/10 1500		Unit Price:
Shipped to: EMSL, 3 Cooper Street, Westmont NJ 08108, () -	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11	B7-PS-02	Waste/ Kevin Phelan	H/G	CORR_Ph (14), IGNIT (14)	(1)	B7-PS-02	S: 6/9/2010	10:33	
12	B7-PS-03	Waste/ Kevin Phelan	H/G	CORR_Ph (14), IGNIT (14)	(1) 2	B7-PS-03	S: 6/9/2010	11:54	
13	B7-SED-02	Sediment/Sludge / Kevin Scott	H/G	CORR_Ph (14), IGNIT (14)	(1)	B7-SED-02	S: 6/8/2010	11:45	
14	B7-SED-03	Sediment/Sludge / Kevin Scott	H/G	CORR_Ph (14), IGNIT (14)	(1)	B7-SED-03	S: 6/8/2010	11:50	
15	RAS-B7-TM-05	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-05	S: 6/8/2010	13:15	
16	RAS-B7-TM-09	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-09	S: 6/8/2010	13:34	
17	RAS-B7-TM-09-2S	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-09-2S	S: 6/8/2010	14:30	
18	RAS-B7-TM-10	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-10	S: 6/8/2010	13:30	
19	RAS-B7-TM-14 A	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-14A	S: 6/8/2010	9:50	
20	RAS-B7-TM-14 B	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-14B	S: 6/8/2010	10:05	

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Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ___	Shipment Iced? ___

CORR_Ph = Corrosivity (pH), IGNIT = Ignitability

TR Number: 2-232373826-061410-0001

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Rec'd GS 6/15/10 12:30p

USEPA Contract Laboratory Program
Generic Chain of Custody

01100 2680

Reference Case 40200
Client No:
SDG No:
L

Date Shipped: 6/14/2010	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No:
Airbill:	1 Scott 6/14/10 1500		Unit Price:
Shipped to: EMSL, 3 Cooper Street, Westmont NJ 08108, () -	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
21	RAS-B7-TM-17	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-17	S: 6/8/2010	12:15	
22	RAS-B7-TM-18	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-18	S: 6/8/2010	12:30	
23	RAS-B7-TM-19	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-19	S: 6/8/2010	12:45	
24	RAS-B7-TM-53 A	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-53A	S: 6/8/2010	11:00	
25	RAS-B7-TM-53 B	Waste/ Chris Burns	H/G	CORR_Ph (14), IGNIT (14)	(1)	RAS-B7-TM-53B	S: 6/8/2010	11:15	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	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? ___

CORR_Ph = Corrosivity (pH), IGNIT = Ignitability

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Rec'd [illegible] 6/15/10 12:30p

ATTACHMENT 2

ASBESTOS ANALYTICAL RESULTS REPORT

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 858-4800 Fax: (856) 786-5974 Email: westmontasblab@EMSL.com

Attn: **Christopher Burns**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061

Fax: (610) 485-8587 Phone: (610) 485-6410
Project: **103DX9004L100178 NJ samples**

Customer ID: TTEC50
Customer PO:
Received: 06/16/10 9:00 AM
EMSL Order: 041012689

EMSL Proj:
Analysis Date: 7/6/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos %	Fibrous	Non-Fibrous %	Asbestos %	Type
RSA-BK-001 *041012689-0001*	1ST FLR BLD 7 HORIZONTAL PIPE - 10" PIPEWRAP	White Fibrous Heterogeneous			30% Non-fibrous (other)	**70%**	**Chrysotile**
			HA: 1				
RSA-BK-002 *041012689-0002*	1ST FLR BLD 7 HORIZONTAL PIPE - 6" PIPEWRAP	White Fibrous Heterogeneous			35% Non-fibrous (other)	**65%**	**Chrysotile**
			HA: 2				
RSA-BK-003 *041012689-0003*	1ST FLR BLD 7 HORIZONTAL PIPE UNDER MACHINERY - 6" PIPEWRAP	Gray Fibrous Heterogeneous	80%	Cellulose	5% Non-fibrous (other)	**15%**	**Chrysotile**
			HA: 3				
RSA-BK-004 *041012689-0004*	2ND FLR BLD 7 HORIZONTAL PIPE NORTH - 6" PIPEWRAP	White Fibrous Heterogeneous			45% Non-fibrous (other)	**15%** **40%**	**Chrysotile** **Amosite**
			HA: 4				
RSA-BK-005 *041012689-0005*	2ND FLR BLD 7 HORIZONTAL PIPE SOUTH - 6" PIPEWRAP	Brown Fibrous Heterogeneous	85%	Cellulose	5% Non-fibrous (other)	**10%**	**Chrysotile**
			HA: 5				

Initial report from

Analyst(s)

Peter Harrison (12)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAC requirements unless otherwise specified.
Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 858-4800 Fax: (856) 786-5974 Email: westmontasblab@EMSL.com

Attn: **Christopher Burns**
Tetra Tech EMI
7 Creek Parkway
Suite 700
Boothwyn, PA 19061

Fax: (610) 485-8587 Phone: (610) 485-6410
Project: **103DX9004L100178 NJ samples**

Customer ID: TTEC50
Customer PO:
Received: 06/16/10 9:00 AM
EMSL Order: 041012689

EMSL Proj:
Analysis Date: 7/6/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos %	Non-Asbestos Fibrous	Non-Asbestos %	Non-Asbestos Non-Fibrous	Asbestos %	Asbestos Type
RSA-BK-006 *041012689-0006*	3RD FLR BLD 7 HORIZONTAL PIPE NORTH - 10" PIPEWRAP	Brown Fibrous Heterogeneous HA: 6	85%	Cellulose	5%	Non-fibrous (other)	**10%**	**Chrysotile**
RSA-BK-007 *041012689-0007*	3RD FLR BLD 7 HORIZONTAL PIPE SOUTH - 6" PIPEWRAP	White Fibrous Heterogeneous HA: 7			40%	Non-fibrous (other)	**60%**	**Chrysotile**
RSA-BK-008 *041012689-0008*	3RD FLR BLD 7 VERTICAL PIPE NORTH REAR DOOR - 6" PIPEWRAP	White Fibrous Heterogeneous HA: 8			35%	Non-fibrous (other)	**65%**	**Chrysotile**
RSA-BK-009 *041012689-0009*	BLD 7 3RD FLR VERTICAL PIPE NORTH BACK WALL - 6" PIPEWRAP	White Fibrous Heterogeneous HA: 9			30%	Non-fibrous (other)	**70%**	**Chrysotile**

Initial report from

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
RSA-BK-010 *041012689-0010*	BLD 12 BASEMENT HORIZONTAL PIPE - 10" PIPEWRAP	Brown/White Fibrous Heterogeneous	35%	Cellulose	25%	Non-fibrous (other)	**40% Chrysotile**
			HA: 10				
RSA-BK-011 *041012689-0011*	ON GROUND OUTSIDE BLD 7 SOUTH - WEATHERED PIPEWRAP	Brown/White Fibrous Heterogeneous	35%	Cellulose	20%	Non-fibrous (other)	**45% Chrysotile**
			HA: 11				
RSA-BK-012 *041012689-0012*	BLD 7 OUTSIDE PIPE HORIZONTAL SOUTH - 6" PIPEWRAP	Brown/Black/Silver Fibrous Heterogeneous	3% 90%	Glass Min. Wool	7%	Non-fibrous (other)	**None Detected**
			HA: 12				

Initial report from

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or other approved signatory

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