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December 17, 2013

Mr. Todd Gmitro
Attn: PCB Coordinator (Mail Code: DT-8J)
US Environmental Protection Agency Region 5
77 W. Jackson Boulevard
Chicago, Illinois 60604

Regarding: **Cleanup Completion Report for Self-Implementing Cleanup of PCB-Contaminated Soil**
Central Ohio Transit Authority
1333 Fields Avenue, Columbus, Ohio
Shaw Project No. 144938.151

Dear Mr. Gmitro:

On behalf of the Central Ohio Transit Authority (COTA), Shaw Environmental and Infrastructure, Inc. (Shaw), a CB&I company, is submitting the attached Cleanup Completion Report for Self-Implementing Cleanup of PCB-Contaminated Soil at the above referenced site in Columbus, OH. The investigation and report were conducted and prepared in accordance with the applicable provisions of Title 40 of the Code of Federal Regulations (CFR), Part 761.

As requested in your letter dated June 17, 2013, this Cleanup Completion Report serves as the final report documenting the activities associated with the PCB site revitalization and includes the additional site characterization data and subsequent remedial actions performed. Since PCB concentrations in site soil remain at levels ≤25ppm; therefore, a Deed Notice was recorded on December 16, 2013 by COTA in the Franklin County Deed Records, Document Number 201312160205495, which limits the area around the excavation to low-occupancy use.

Please contact Ms. Kelly Birkenhauer at (513) 782-4521 or Mr. Rajib Sinha at (513)782-4694 should you have any questions.

Sincerely,

Shaw Environmental & Infrastructure, Inc.
(A CB&I Company)

Kelly H. Birkenhauer
Project Scientist

Rajib Sinha, P.E.
Business Line Manager

CC: Tim Smith, COTA
Marchelle Moore, Esq., COTA
Raymond R. Moreno, Ohio EPA, DERR/CDO

Attachments: Cleanup Completion Report – Self-Implementing Cleanup of Polychlorinated Biphenyl Contaminated Soil

CLEANUP COMPLETION REPORT
Self-Implementing Cleanup of Polychlorinated Biphenyl (PCB) Contaminated Soil

Central Ohio Transit Authority
Fields Bus Garage
1333 Fields Avenue
Columbus, Franklin County, Ohio

Prepared for:
Central Ohio Transit Authority
33 North High Street
Columbus, Ohio 43215

Prepared by:
Shaw Environmental & Infrastructure, Inc.
(A CB&I Company)
5050 Section Avenue
Cincinnati, Ohio 45212

Shaw Project No. 144938, Task Order No. 151
Revision 0

December 17, 2013

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Acronyms and Abbreviations

ALS	ALS Laboratory Group
bgs	below ground surface
BUSTR	Bureau of Underground Storage Tank Regulations
COTA	Central Ohio Transit Authority
DS	drum sample
DPT	direct-push technology
EM	electromagnetic
HASP	Health and Safety Plan
JSA	job safety analysis
mg/kg	milligrams per kilogram
MS/MSD	matrix spike/matrix spike duplicate
N&S	Norfolk & Southern
Ohio EPA	Ohio Environmental Protection Agency
OSHA	Occupational Safety and Health Administration
OUPS	Ohio Utility Protection Service
PCB	polychlorinated biphenyl
PID	photoionization detector
PPE	Personal Protective Equipment
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RSL	Regional Screening Level
Shaw	Shaw Environmental and Infrastructure, Inc.
SOP	Standard Operating Procedures
SVOC	Semi Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency
VAP	Voluntary Action Program
VOC	Volatile Organic Compound
Workplan	Notification of Self-Implementing Cleanup of PCB Contaminated Soil Remediation Workplan

1.0 Introduction and Background

On behalf of the Central Ohio Transit Authority (COTA), Shaw Environmental and Infrastructure, Inc. (Shaw), a CB&I Company, has prepared this Cleanup Completion Report to document the self-implementing cleanup for soil contaminated with Polychlorinated Biphenyl (PCB) conducted at COTA's Fields Avenue Bus Garage. This facility is located at 1333 Fields Avenue, Columbus, Franklin County, Ohio (the Site, Figure 1). The specific area at the facility where this cleanup activity occurred is shown in Figure 2.

The following is information regarding the entity submitting this Report:

Entity Name and Address:	The Central Ohio Transit Authority (COTA) 33 N. High Street Columbus, OH 43215
Contact:	Mr. Timothy W. Smith Director, Facilities
Telephone:	(614) 275-5800

1.1 Background

On Wednesday, July 11, 2012, a Norfolk and Southern (N&S) train partially derailed onto the Site. Based on information provided by N&S, the derailment included three tanker cars carrying approximately 22,000 gallons each of ethanol, a tanker car carrying corn syrup, and several cars carrying wheat. An ethanol fire ensued consuming approximately one-half of the total volume of ethanol. Approximately 34,000 gallons of ethanol were removed from the tanker cars once the fire was extinguished.

N&S mobilized contractors to the property to address the derailment. Implemented tasks included the removal of soil impacted with ethanol. During soil removal activities, old 55-gallon steel drums were encountered by N&S contractors. It is unknown if the drums were historically buried or were simply covered with soil during the construction of an access ramp for machinery necessary to remove the derailed cars from the N&S mainline tracks.

The Ohio Environmental Protection Agency (Ohio EPA) assumed regulatory control of the derailment site including the area where the drums had been located. In consultation with the Ohio EPA, Shaw submitted a work plan for investigating the site, and in November 2012, Shaw advanced a total of nine soil borings (B-1 through B-9) shown in Figure 2 and Figure 3 to depths ranging from 16 to 20 feet below ground surface (bgs) to delineate the extent of the potential impact in the area of the buried drums. The subsurface investigation was documented in a report titled *"Derailment Subsurface Investigation"* submitted to the Ohio EPA on January 11, 2013 and the results showed that detections above the industrial EPA Regional Screening Levels (RSLs) were limited to arsenic, benzo (a) pyrene, and the PCB congener Aroclor 1248 (Table 1). Of these Contaminants of Concern (COCs), only Aroclor 1248 exceeded both the RSLs and the Ohio Voluntary Action Program (VAP) commercial/industrial generic direct contact standards.

On January 29, 2013, the Ohio EPA in a written correspondence agreed that the detected COCs with the exception of PCBs did not warrant action. However, since Ohio EPA does not have delegated status under the Toxics Substances Control Act (TSCA) to regulate PCB contamination, Ohio EPA deferred cleanup of the PCB contamination to US Environmental Protection Agency (USEPA) Region V.

After discussions with USEPA, on May 6, 2013, Shaw submitted the *"Notification of Self-Implementing Cleanup of Polychlorinated Biphenyl (PCB) Contaminated Soil Remediation Work Plan"* (the Work Plan) to USEPA, Region V. The Work Plan outlined the anticipated additional characterization to delineate the extent of PCB contamination and the proposed excavation activities for the Site. The Site is currently a commercial facility located in a commercial/industrial area. The remediated area is less than 0.25 acres in an unoccupied area outside of the bus garage and is a "low occupancy area." The material remaining on site can be considered "existing piles of soil [and] in-situ soil," which meets the PCB remediation waste definition for the bulk PCB remediation waste class. For low occupancy, bulk remediation waste sites, the standards presented in Title 40 of the Code of Federal Regulations (CFR) Chapter 761, Subpart O governs completion of the self-implementing cleanup. For sites with a soil concentration of less than or equal to 25 milligrams per kilogram (mg/kg) of PCBs (≤25 parts per million

(ppm)), an institutional control (i.e., a deed restriction) and post-excavation confirmatory sampling is necessary.

On June 17, 2013, the USEPA approved the Work Plan and requested an initial cleanup goal of ≤1ppm which would allow unrestricted closure of the Site. On August 14, 2013, following initial site characterization activities, Shaw contacted USEPA Region V and requested a cleanup level of ≤25ppm to limit the excavation extent and additional investigation costs. This cleanup level requires a deed restriction limiting the site to low-occupancy industrial use, its current use, and was granted approval from USEPA on August 16, 2013.

1.2 Report Organization

This Cleanup Completion Report has been prepared in accordance with the TSCA requirements for a self-implementing cleanup, as outlined in 40 CFR 761.61(a). This serves as the final report documenting the activities associated with the PCB site revitalization and presents the information gathered during the site characterization activities, as well as all excavation activities. The site characterization activities followed 40 CFR 261 Subpart N "Cleanup Site Characterization Sampling for PCB Remediation Waste in Accordance with 761.61(A)(2)". The site cleanup verification activities followed 40 CFR 261 Subpart O "Sampling to Verify Completion of Self-Implementing Cleanup and On-site Disposal of Bulk PCB Remediation Waste and Porous Surfaces in accordance with 761.61 (A)(6)". A copy of this report has been placed on file at the Site and will be available for EPA inspection as per 40 CFR 761.61(a)(3)(i)(E).

The remainder of this report presents the following sections:

Section 2 Additional Site Characterization activities and analytical results
Section 3 Excavation Activities
Section 4 Summary of cleanup activities
Section 5 Certification required by 40 CFR 761.61(a)(3)(i)(E).

2.0 Additional Site Characterization

The PCB Site Revitalization Guidance Document directs notification and certification requirements for self-implementing cleanup of PCB remediation wastes by ensuring that the area has been sufficiently characterized and that the appropriate authorities have been notified of the anticipated activities. Soil boring B-8 was the only boring with detectable PCB concentrations at the 0 to 2 feet bgs interval in the "Derailment Subsurface Investigation," (Shaw January 11, 2013). Thus, Shaw proposed to characterize the concentrations of PCBs in the vicinity of boring B-8. The area around boring B-8 was characterized by an electromagnetic (EM) anomaly in an area approximately 20 feet by 20 feet which could indicate metal debris (Figures 2 and 3). In order to characterize the area, Shaw referenced 40 CFR 761 Subpart N "Cleanup Site Characterization Sampling for PCB Remediation Waste" in accordance with 761.61(a)(2) and specifically 761.265 "Sampling bulk PCB remediation waste and porous surfaces."

This section describes the site characterization activities, analytical results, and subsequent disposal requirements for the excavated bulk PCB remediation waste.

2.1 Field Activities

On June 17, 2013 Shaw mobilized with the drilling subcontractor to install the soil borings outlined in the Workplan and shown in Figure 3. These consisted of the five (5) borings around B-8 (B-10, B-11, B-12, B-13, B-14) and four (4) additional borings installed as "step-out" borings on the three (3) meter by three (3) meter grid required in the TSCA guidance (B-15, B-16, B-17, B-18). All borings were installed with direct-push technology (DPT). Soil boring B-10 was advanced adjacent to B-8, and the four remaining borings (B-11, B-12, B-13, and B-14) were placed around the perimeter of B-8 three (3) meters in each direction (north, east, south and west) but within the area of the EM anomaly. The "step-out" boring B-15 was installed west of B-14; B-16 was installed north of B-11; B-17 was installed east of B-12; and B-18 was installed south of B-13.

All of the borings were continuously sampled from the ground surface to eight feet bgs. The sampling sleeve was split and a grab sample collected from each two foot interval from each boring. Shaw personnel logged the soil cores and collect soil samples for

field screening and potential laboratory analysis. Half of each sample was placed in a positive seal plastic bag for field screening. The second half of each sample was placed in a pre-cleaned laboratory jar and placed on ice for laboratory analysis. Field screening was completed utilizing a photoionization detector (PID) to screen the soil samples for organic vapors.

One soil sample from each two-foot interval from each boring was submitted for analysis of total PCBs in accordance with US EPA Method 8082. One duplicate sample was submitted for every 10 primary samples. The samples were labeled with a unique sample identifier, date, time, sampler, and analysis requested. All sample labels were covered with tape prior to packaging in the coolers in order to protect the label information. Samples were packaged for shipment in accordance with Shaw Standard Operating Procedures (SOPs). Proper Chain-of-Custody protocol was followed.

On June 18, 2013, a total of 40 primary, four (4) duplicate, and one (1) matrix spike/matrix spike duplicate (MS/MSD) samples were submitted to ALS Laboratory Group (ALS) of Cincinnati, OH for analysis of total PCBs by US EPA Method 8082.

Following receipt of the analytical results, additional characterization was determined to be necessary. On June 28, 2013, soil borings B-19, B-20, B-21, B-22, B-23, B-24, B-25, and B-26 were installed via hand augering. The hand auger was decontaminated between intervals and soil borings. Soil samples were collected from the 0 to 2 and 2 to 4 feet bgs intervals for analysis of total PCBs. On June 18, 2013, a total of 16 primary and two (2) duplicate samples were submitted to ALS.

On July 16, 2013, Shaw mobilized with the drilling subcontractor and installed soil borings B-27, B-28, B-29, B-30, B-31, B-32, B-33, B-34, and B-35 to complete the site characterization. The soil borings were installed to a depth of eight feet bgs. Samples were collected for analysis from each two-foot interval. Soil boring B-19 was sampled from 4 to 8 feet bgs. On June 17, 2013 a total of 38 primary and four (4) duplicate samples were submitted to ALS for analysis of total PCBs.

Figure 3 presents the site map with the site characterization soil boring locations. Soils encountered during drilling consisted of fill materials comprised of black silts, sands, and gravels with glass and wood fragments followed by black, grey, and brown silts and

clays. Fill thicknesses ranged from 4 to 8 feet bgs. Groundwater was not encountered during drilling. Soil boring logs are presented in Appendix B.

In addition to the site characterization samples collected for total PCB analysis, three composite samples were collected for waste characterization to determine the disposal requirements for the bulk PCB remediation waste. A composite was collected from soil boring B-10 on June 17, 2013 and analyzed for the list of metals in 40 CFR 261.24 (commonly called "RCRA Metals") using the Toxicity Characteristic Leaching Procedure (TCLP) for extraction (US EPA Method 1311) and subsequent analysis by US EPA Method 6010B. On July 16, 2013, two composite samples were collected from the soil borings and analyzed for TCLP volatile organic compounds (VOCs) by US EPA Method 8260, TCLP semi-volatile organic compounds (SVOCs) by US EPA Method 8270C, and TCLP RCRA metals by US EPA Method 6010B.

2.2 Analytical Results

Cumulative analytical results from the site characterization events are presented in Table 1 and on Figure 4. Total PCB concentrations ranged from non-detect to 200 mg/kg with an average concentration of 16 mg/kg. Composite waste characterization analytical results are presented in Table 2. Detections included barium and 2-butanone. All other results were non-detect. None of the analytical results exceeded USEPA Maximum Concentration of Contaminants for Toxicity.

Bulk PCB remediation waste at concentrations of less than 50 mg/kg (<50ppm) may be disposed of at an approved PCB disposal facility, a permitted municipal solid waste or non-municipal non-hazardous waste facility when disposed pursuant to Sec. 761.61(a) or (c), or a RCRA Sec. 3004 or 3006 permitted hazardous waste landfill. Manifesting and recordkeeping requirements do not apply for waste at these concentrations. For bulk PCB remediation waste at concentrations greater than or equal to 50 mg/kg (≥50ppm), the waste must be disposed of in a RCRA Sec. 3004 or 3006 permitted hazardous waste landfill or an approved PCB disposal facility.

Based on the analytical results, some of the bulk PCB remediation waste would be required to be disposed at a TSCA-licensed soil disposal facility. Shaw worked with the waste disposal facilities when preparing the proposed excavation extent in order to determine the excavation extent which would need to be disposed of as TSCA-regulated waste.

2.3 Summary

Following the additional site characterization, Shaw notified the USEPA on August 14, 2013 and requested a cleanup level of ≤25ppm to limit the excavation extent and additional investigation costs. This cleanup level requires a deed restriction limiting the site to low-occupancy industrial use, its current use, and was granted approval from USEPA.

With the cleanup level of ≤25ppm, the excavation extent increased from approximately 165 tons to 440 tons. Figure 5 presents the proposed excavation extent based on the site characterization analytical results. The area of excavation was estimated at approximately 1,550 square feet based on the three (3) meter grid with depths ranging from 2 to 8 feet below ground surface (bgs). The proposed excavation extended from B-11 to the north to B-31 to the south. The top 0 to 2 feet in areas with PCB concentrations greater than 50 ppm was identified for disposal in a TSCA-licensed soil disposal facility. This extent is approximately 108 tons. The remainder of the excavation area, approximately 387 tons has an average PCB concentration of less than 10 mg/kg and could be disposed of in a non-TSCA licensed soil disposal facility. The final depth and extent of excavation was to be determined following receipt of chemical analysis of the confirmation soil samples to be collected by Shaw. Composite confirmation samples were to be collected following the excavation from the sidewalls and floor.

3.0 Excavation Activities

Shaw and the subcontractor mobilized to the site on September 16, 2013. Prior to beginning the excavation, the perimeter of the excavation was marked with paint, stakes, and flags. The excavation equipment was decontaminated prior to arrival onsite. When the excavation was left open overnight, a security fence was constructed immediately around the excavation as an added safety measure to prevent potential trespassing into the excavation area.

On September 17, 2013, the excavation commenced and soil was live-loaded onto trucks and transported to the disposal facilities. The excavation began in the area surrounding soil boring B-8 and the EM anomaly. The soils scheduled to be removed and taken to the TSCA landfill were excavated first. While loading the trucks, the excavation operator used caution to minimize the spillage of soil from the excavator bucket including but not limited to: 1) over-loading the bucket with soil while digging; 2) trying to load too quickly; and 3) over loading the trucks. When the area excavated for disposal at the TSCA landfill was complete, the backhoe was decontaminated on Visqueen which was disposed of with the final load.

The excavation continued through September 23, 2013. During the excavation, composite confirmation soil samples were collected from the sidewalls and floor of the excavation for analysis of total PCBs in accordance with 40 CFR 761 Subpart O. These soil samples were analyzed on a 24-hour turn for total PCBs in accordance with US EPA Method 8082 to confirm that the PCB concentrations were below the bulk PCB remediation waste cleanup goal of ≤25ppm.

During excavation, a total of 14 buried drums were encountered from two to four feet bgs in the area where the EM anomaly was detected around soil boring B-10. The drums were mangled, but not bulging or leaking. The drums were placed on a sheet of Visqueen, covered with additional Visqueen, and surrounded by a soil berm. Subsequently, two roll-off boxes were brought to the site to hold the drums until analysis could be completed to determine their disposal requirements.

A total of 15 composite confirmation soil samples were collected (14 primary and 1 duplicate) for analysis of total PCBs. Only the composite samples taken at the location of CS-10 at two depths - the excavation floor at four feet bgs and the sample taken at 4-6 feet bgs – showed PCB concentrations above the remediation cleanup goal of 25 ppm. These results resulted in additional excavation in this area to a depth of 8 feet bgs. Composite confirmation soil analytical results for the PCBs are presented in Table 4 and on Figure 6. Analytical reports are included in Appendix C.

The floor sample (CS-4) collected beneath the area where the drums were encountered was also analyzed for RCRA metals, VOCs, and SVOCs to confirm characterization. Composite confirmation soil analytical results for CS-4 are presented in Table 5. Results were compared to the Ohio EPA VAP Generic Numerical Standards. Analytical reports are included in Appendix C.

Two composite samples were collected from the drums for waste characterization: drum sample (DS) #1 and DS#2 on September 18, 2013. The samples were analyzed for TCLP and total metals, TCLP and total SVOCs, TCLP and total VOCs, PCBs, ignitability, pH, and reactivity. Table 6 provides the analytical results and analytical reports are included in Appendix C. The results were compared to the US EPA Maximum Concentration of Contaminants for Toxicity levels, USEPA TSCA hazardous waste levels for PCBs, and Ohio EPA VAP Generic Numerical Standards. Concentrations indicated that the material was not hazardous, but did need to be disposed of as TSCA-regulated material since PCB concentrations were greater than 50 mg/kg.

A manifest was completed to document each load and accompanied the load to the landfill. A copy of each manifest was returned to Shaw with a landfill weight ticket to document the amount of soil disposed. A total of 442.37 tons were excavated. 152.51 tons were disposed of as TSCA-regulated waste at Wayne Disposal, Inc. in Belleville, Michigan, and 289.86 tons were disposed of as non-hazardous waste at Ohio Soil Recycling in Columbus, Ohio.

On September 17, 2013, prior to site mobilization, three composite soil samples (OSR2-1, OSR2-2, OSR2-3) were collected from backfill material located at Ohio Soil Recycling in Columbus, Ohio to confirm that the backfill was clean. The samples were submitted

to ALS for analysis of total PCBs, RCRA Metals, VOCs, and SVOCs. Analytical results, presented in Table 3, were compared to US EPA TSCA standards for PCBs; Ohio EPA VAP Generic Numerical Standards for Commercial and Industrial Soils for Metals, VOCs, and SVOCs; and the Bureau of Underground Storage Tank (BUSTR) Re-use levels for applicable VOCs and SVOCs. BUSTR levels were used for the applicable VOCs and SVOCs because they are more conservative than Ohio EPA VAP standards and the Site is also regulated by BUSTR. All concentrations were either non-detect or below applicable standards. Analytical results are presented in Appendix C.

Upon completion of the excavation and sampling activities, the excavation contractor imported, placed, and backfilled the clean material into the excavation. A total of 511.9 tons of backfill were imported and placed in the excavation on September 30, 2013. On October 11, 2013, the two roll-offs containing the removed drum waste removed from the site and transported to Wayne Disposal, Inc. in Belleville, Michigan as TSCA-regulated waste. The site was graded and re-seeded following site revitalization activities.

All manifests and weight tickets are provided in Appendix D. Table 7 provides a summary of the excavation activities. A photographic log documenting the site characterization and excavation activities is presented in Appendix F.

4.0 Summary

In summary, a total of 35 soil borings were installed on the Site to complete the site characterization for PCBs. All areas on Site with PCB concentrations greater than 25 ppm were excavated and none of the surficial soils in the area exceed the Ohio VAP Direct Contact level of 18 ppm.

Since the remediation cleanup goal was established at ≤25ppm, an institutional control is required for the Site. The Deed Notice shown in Figure 7 and presented in Appendix E limits the area around the excavation in the northwest portion of the property to low-occupancy use only as defined in 40 CFR Part 761.3. If changes in use are proposed in the area, the owner shall clean up the area in accordance with high occupancy area cleanup levels. The site will remain subject to TSCA as long at PCB levels above the unrestricted use limit of 1 ppm remain on the property.

The Deed Notice was recorded on 12/16/2013 by COTA in the Franklin County Deed Records, Document Number 201312160205495.

5.0 Certification

This section provides the certification required by 40 CFR 761.61(a)(3)(i)(E).

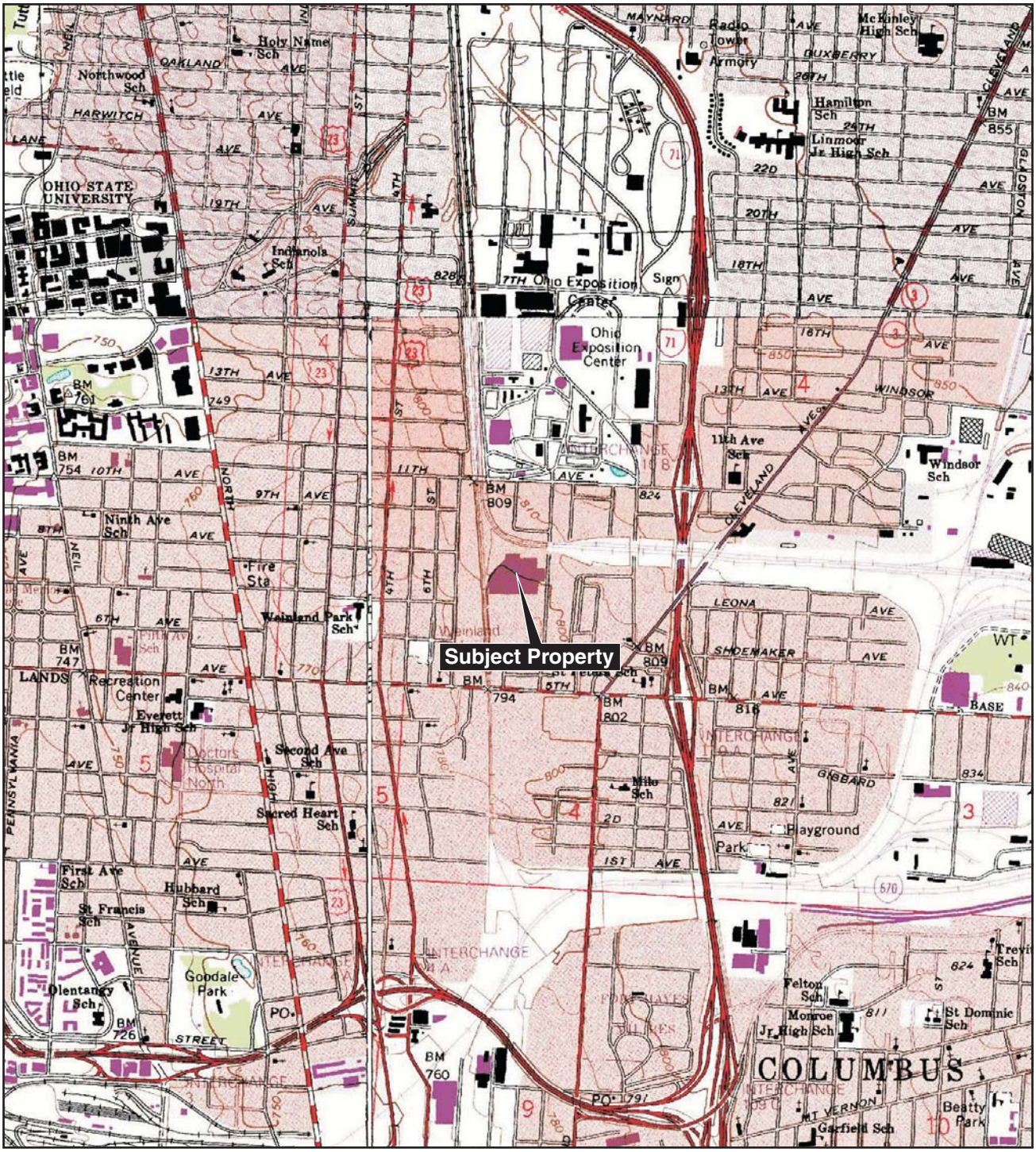
I certify that a notation has been recorded on the deed to the property in accordance with the Ohio Law to notify in perpetuity any potential purchaser of the property:

(1) That the land has been used for PCB remediation waste disposal and is restricted to use as a low occupancy area as defined in 40 CFR 761.3.

(2) The site has been cleaned to meet a remediation of goal of 25 ppm in accordance with 40 CFR 761,3 for a low-occupancy site.

Timothy W. Smith
Director, Facilities
Central Ohio Transit Authority

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Cincinnati, OH	9/8/10	--	JIS	KB	--	s-140288-9/10-w



QUADRANGLE LOCATION

CBI

CENTRAL OHIO TRANSIT AUTHORITY

Figure 1.
Topographic Map
1333 Fields Ave
Columbus, OH

Legend

Derailment Subsurface Boring Locations (Shaw, November 2012)

Property Boundary

N

100 50 100

Feet

Central Ohio Transit Authority
Columbus, Ohio

1333 Fields Avenue, Columbus, Ohio

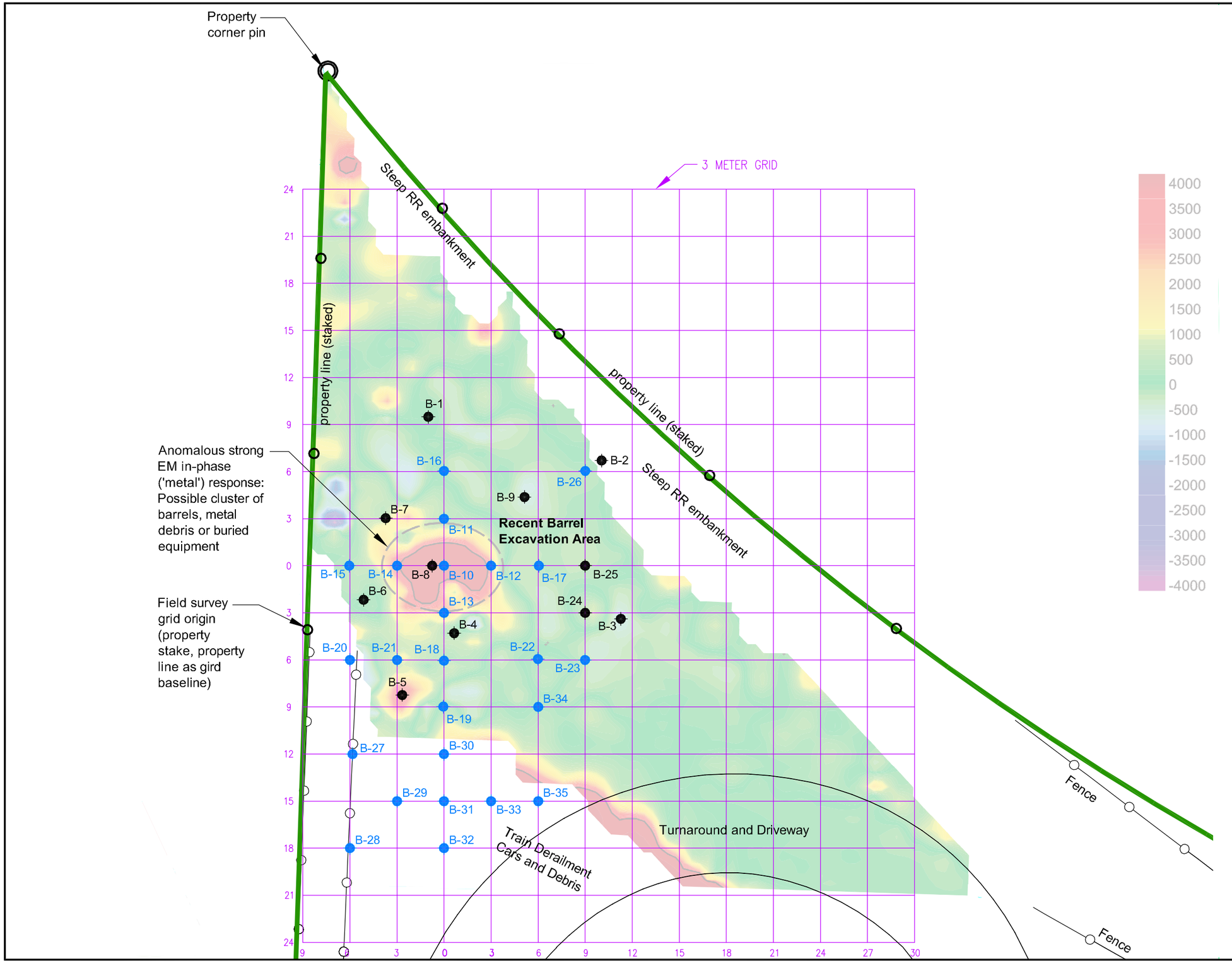
FIGURE NUMBER 2

SITE MAP WITH INITIAL SOIL BORING LOCATIONS

CBI

5050 Section Avenue
Cincinnati, Ohio 45212
www.CBI.com

M. Najar - C:\CAD-GIS\AcadGIS 2012\CDTA\GIS_Documents\Project_Maps\144938.151\144938.151-15.dwg - Tuesday, 12/17/13 - 9:45 AM



Legend

- Derailment Subsurface Investigation Boring Locations (B1-B9, Shaw, November 2012)
- PCB Site Characterization Soil Boring Locations (B10-B-35, Shaw, 2013)
- Property Boundary

Central Ohio Transit Authority
Columbus, Ohio

1333 Fields Avenue, Columbus, Ohio

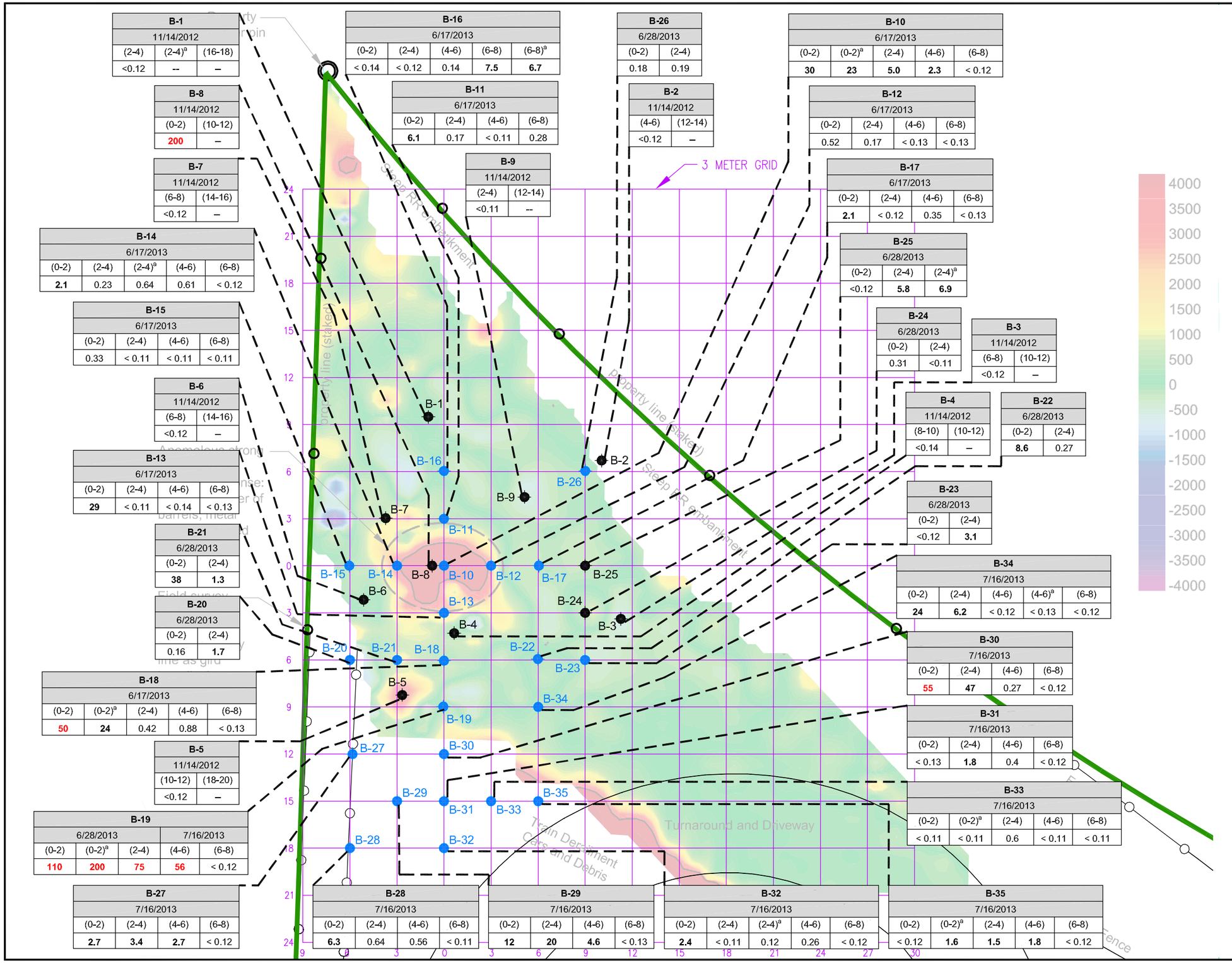
FIGURE NUMBER 3

SITE MAP WITH PCB SITE CHARACTERIZATION SOIL BORING LOCATIONS

CBI

5050 Section Avenue
Cincinnati, Ohio 45212
www.CBI.com

M. Najar - C:\CAD-GIS\AcadGIS 2012\COTA\GIS_Documents\Project_Maps\144938.151\144938.151-10.dwg - Thursday, 12/5/13 - 11:16 AM



B-1		
11/14/2012		
(2-4)	(2-4)[a]	(16-18)
<0.12	--	--

B-8	
11/14/2012	
(0-2)	(10-12)
200	--

B-7	
11/14/2012	
(6-8)	(14-16)
<0.12	--

B-14				
6/17/2013				
(0-2)	(2-4)	(2-4)[a]	(4-6)	(6-8)
2.1	0.23	0.64	0.61	< 0.12

B-15			
6/17/2013			
(0-2)	(2-4)	(4-6)	(6-8)
0.33	< 0.11	< 0.11	< 0.11

B-6	
11/14/2012	
(6-8)	(14-16)
<0.12	--

B-13			
6/17/2013			
(0-2)	(2-4)	(4-6)	(6-8)
29	< 0.11	< 0.14	< 0.13

B-21	
6/28/2013	
(0-2)	(2-4)
38	1.3

B-20	
6/28/2013	
(0-2)	(2-4)
0.16	1.7

B-18				
6/17/2013				
(0-2)	(0-2)[a]	(2-4)	(4-6)	(6-8)
50	24	0.42	0.88	< 0.13

B-5	
11/14/2012	
(10-12)	(18-20)
<0.12	--

B-19				
6/28/2013		7/16/2013		
(0-2)	(0-2)[a]	(2-4)	(4-6)	(6-8)
110	200	75	56	< 0.12

B-27			
7/16/2013			
(0-2)	(2-4)	(4-6)	(6-8)
2.7	3.4	2.7	< 0.12

B-16				
6/17/2013				
(0-2)	(2-4)	(4-6)	(6-8)	(6-8)[a]
< 0.14	< 0.12	0.14	7.5	6.7

B-11			
6/17/2013			
(0-2)	(2-4)	(4-6)	(6-8)
6.1	0.17	< 0.11	0.28

B-9	
11/14/2012	
(2-4)	(12-14)
<0.11	--

B-26	
6/28/2013	
(0-2)	(2-4)
0.18	0.19

B-2	
11/14/2012	
(4-6)	(12-14)
<0.12	--

B-10				
6/17/2013				
(0-2)	(0-2)[a]	(2-4)	(4-6)	(6-8)
30	23	5.0	2.3	< 0.12

B-12			
6/17/2013			
(0-2)	(2-4)	(4-6)	(6-8)
0.52	0.17	< 0.13	< 0.13

B-17			
6/17/2013			
(0-2)	(2-4)	(4-6)	(6-8)
2.1	< 0.12	0.35	< 0.13

B-25		
6/28/2013		
(0-2)	(2-4)	(2-4)[a]
<0.12	5.8	6.9

B-24	
6/28/2013	
(0-2)	(2-4)
0.31	<0.11

B-3	
11/14/2012	
(6-8)	(10-12)
<0.12	--

B-4	
11/14/2012	
(8-10)	(10-12)
<0.14	--

B-22	
6/28/2013	
(0-2)	(2-4)
8.6	0.27

B-23	
6/28/2013	
(0-2)	(2-4)
<0.12	3.1

B-34				
7/16/2013				
(0-2)	(2-4)	(4-6)	(4-6)[a]	(6-8)
24	6.2	< 0.12	< 0.13	< 0.12

B-30			
7/16/2013			
(0-2)	(2-4)	(4-6)	(6-8)
55	47	0.27	< 0.12

B-31			
7/16/2013			
(0-2)	(2-4)	(4-6)	(6-8)
< 0.13	1.8	0.4	< 0.12

B-33				
7/16/2013				
(0-2)	(0-2)[a]	(2-4)	(4-6)	(6-8)
< 0.11	< 0.11	0.6	< 0.11	< 0.11

B-28			
7/16/2013			
(0-2)	(2-4)	(4-6)	(6-8)
6.3	0.64	0.56	< 0.11

B-29			
7/16/2013			
(0-2)	(2-4)	(4-6)	(6-8)
12	20	4.6	< 0.13

B-32				
7/16/2013				
(0-2)	(2-4)	(2-4)[a]	(4-6)	(6-8)
2.4	< 0.11	0.12	0.26	< 0.12

B-35				
7/16/2013				
(0-2)	(0-2)[a]	(2-4)	(4-6)	(6-8)
< 0.12	1.6	1.5	1.8	< 0.12

Legend

- Derailment Subsurface Investigation Boring Locations (B1-B9, Shaw, November 2012)
- PCB Site Characterization Soil Boring Locations (B10-B-35, Shaw, 2013)
- Property Boundary

Screening Levels	PCBs EPA 8082 (mg/kg)
U.S. EPA Unrestricted Use	1
Ohio EPA VAP Generic Direct Contact Commercial/Industrial	18
Ohio EPA VAP Generic Direct Contact Excavation/Construction Worker	42
TSCA Hazardous Waste	50

Notes:

a: Duplicate Sample

1: Bolded sample exceeds the U.S. EPA Unrestricted Use Screening Level (>1ppm)

50: Bolded Red sample exceeds the TSCA Hazardous Waste Screening Level (>50ppm)

N

20 10 20

Feet

Central Ohio Transit Authority
Columbus, Ohio

1333 Fields Avenue, Columbus, Ohio

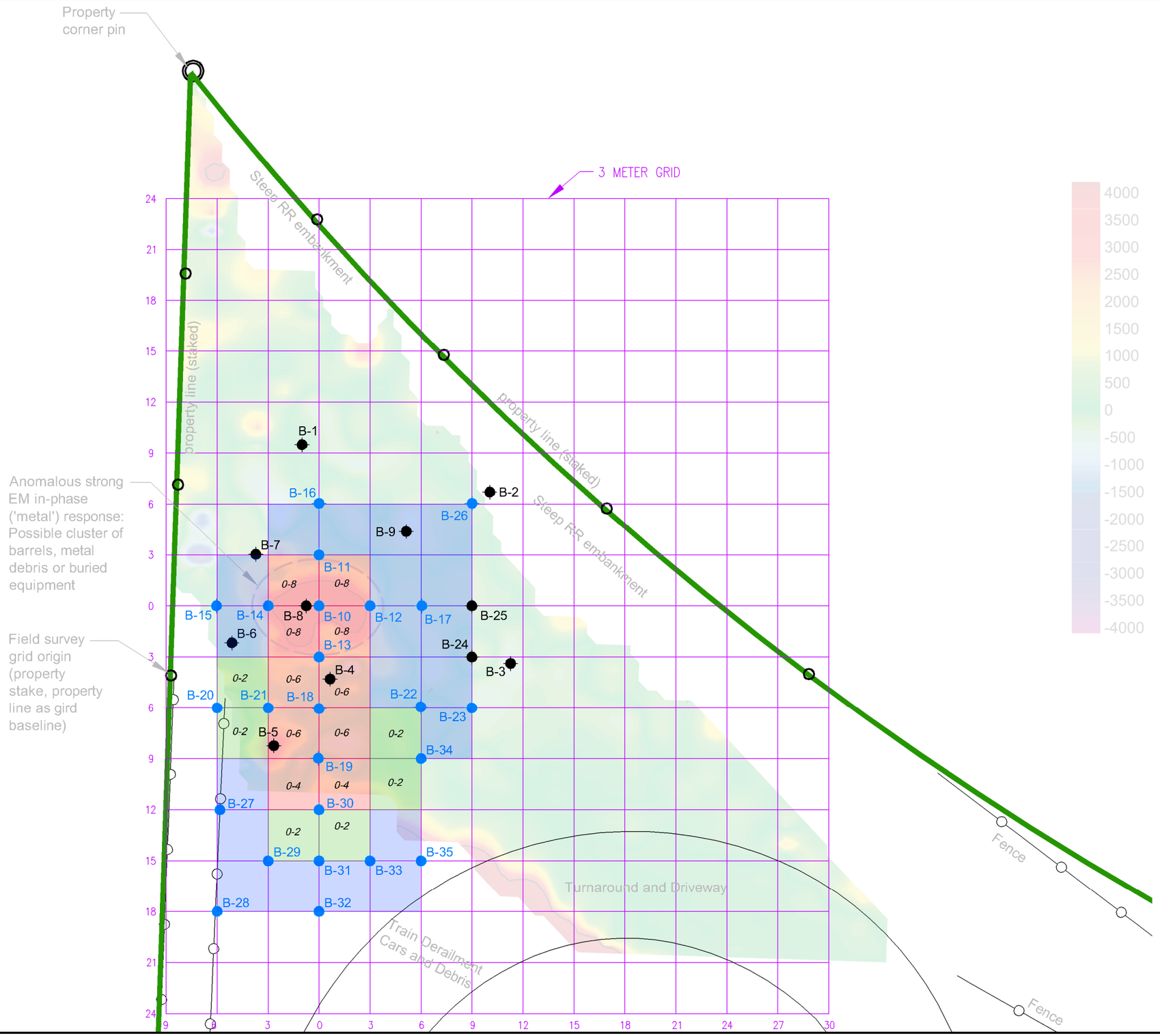
FIGURE NUMBER 4

SITE MAP WITH PCB AROCLOR 1248 ANALYTICAL RESULTS (mg/kg)

CBI

5050 Section Avenue
Cincinnati, Ohio 45212
www.CBI.com

M. Najar - C:\CAD-GIS\AcadGIS 2012\COTA\GIS_Documents\Project_Maps\144938.151\144938.151-11.dwg - Thursday, 12/5/13 - 11:08 AM



Legend

- Derailment Subsurface Investigation Boring Locations (B1-B9, Shaw, November 2012)
- PCB Site Characterization Soil Boring Locations (B10-B-35, Shaw, 2013)
- Property Boundary
- <18 ppm, not to be excavated
- >18 ppm, excavate non-tsca
- >50 ppm, excavate, top 2 feet bgs TSCA
- 0-8: Proposed excavation depth (feet bgs)

N

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Feet

Central Ohio Transit Authority
Columbus, Ohio

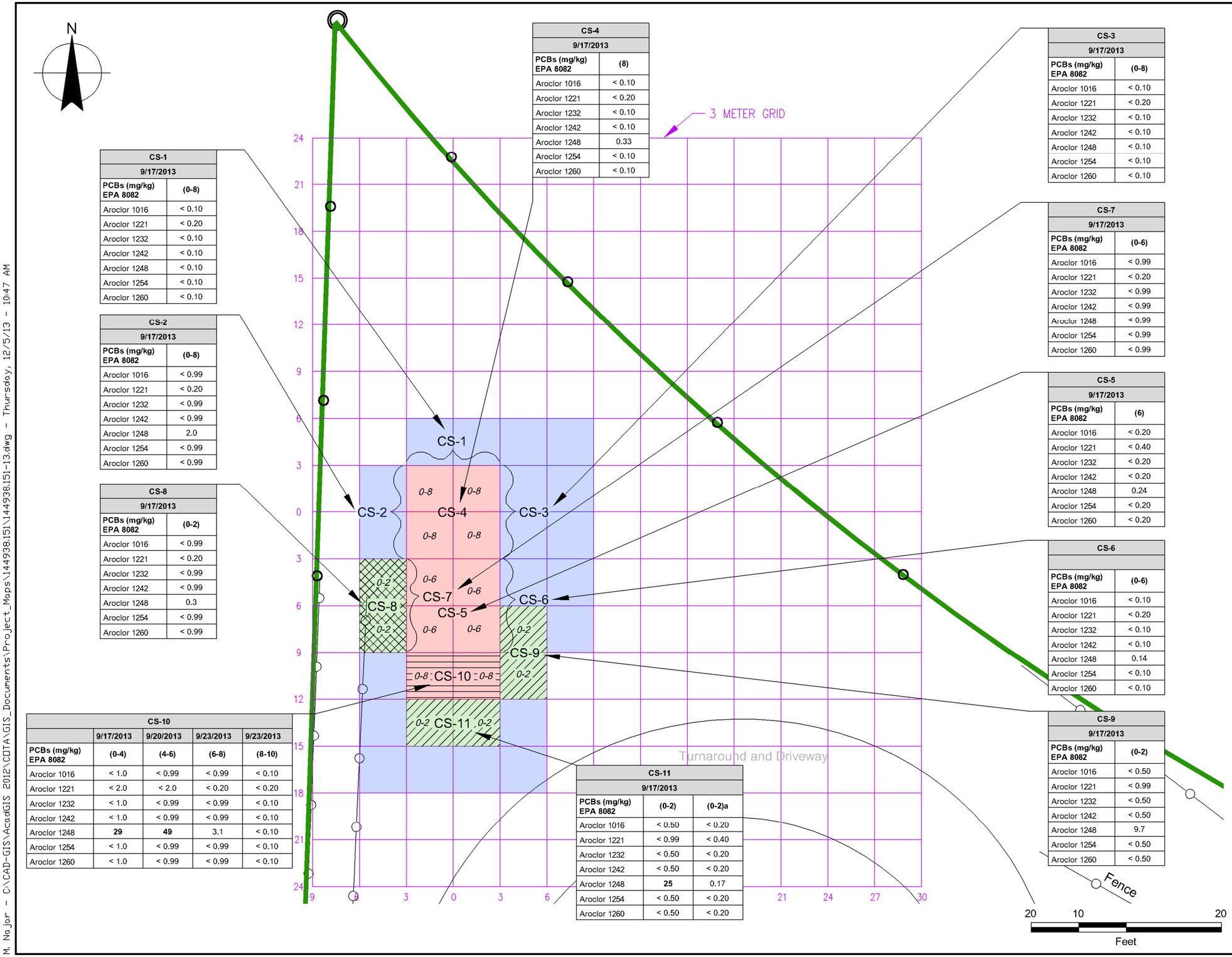
1333 Fields Avenue, Columbus, Ohio

FIGURE NUMBER 5

SITE MAP WITH INITIAL EXCAVATION EXTENT

CBI
5050 Section Avenue
Cincinnati, Ohio 45212
www.CBI.com

M. Major - C:\CAD-GIS\AcadGIS 2012\COTA\GIS_Documents\Project_Maps\144938.151\144938.151-12.dwg - Thursday, 12/5/13 - 11:09 AM



CS-1	
9/17/2013	
PCBs (mg/kg) EPA 8082	(0-8)
Aroclor 1016	< 0.10
Aroclor 1221	< 0.20
Aroclor 1232	< 0.10
Aroclor 1242	< 0.10
Aroclor 1248	< 0.10
Aroclor 1254	< 0.10
Aroclor 1260	< 0.10

CS-2	
9/17/2013	
PCBs (mg/kg) EPA 8082	(0-8)
Aroclor 1016	< 0.99
Aroclor 1221	< 0.20
Aroclor 1232	< 0.99
Aroclor 1242	< 0.99
Aroclor 1248	2.0
Aroclor 1254	< 0.99
Aroclor 1260	< 0.99

CS-8	
9/17/2013	
PCBs (mg/kg) EPA 8082	(0-2)
Aroclor 1016	< 0.99
Aroclor 1221	< 0.20
Aroclor 1232	< 0.99
Aroclor 1242	< 0.99
Aroclor 1248	0.3
Aroclor 1254	< 0.99
Aroclor 1260	< 0.99

CS-10				
	9/17/2013	9/20/2013	9/23/2013	9/23/2013
PCBs (mg/kg) EPA 8082	(0-4)	(4-6)	(6-8)	(8-10)
Aroclor 1016	< 1.0	< 0.99	< 0.99	< 0.10
Aroclor 1221	< 2.0	< 2.0	< 0.20	< 0.20
Aroclor 1232	< 1.0	< 0.99	< 0.99	< 0.10
Aroclor 1242	< 1.0	< 0.99	< 0.99	< 0.10
Aroclor 1248	**29**	**49**	3.1	< 0.10
Aroclor 1254	< 1.0	< 0.99	< 0.99	< 0.10
Aroclor 1260	< 1.0	< 0.99	< 0.99	< 0.10

CS-4	
9/17/2013	
PCBs (mg/kg) EPA 8082	(8)
Aroclor 1016	< 0.10
Aroclor 1221	< 0.20
Aroclor 1232	< 0.10
Aroclor 1242	< 0.10
Aroclor 1248	0.33
Aroclor 1254	< 0.10
Aroclor 1260	< 0.10

CS-11		
9/17/2013		
PCBs (mg/kg) EPA 8082	(0-2)	(0-2)a
Aroclor 1016	< 0.50	< 0.20
Aroclor 1221	< 0.99	< 0.40
Aroclor 1232	< 0.50	< 0.20
Aroclor 1242	< 0.50	< 0.20
Aroclor 1248	**25**	0.17
Aroclor 1254	< 0.50	< 0.20
Aroclor 1260	< 0.50	< 0.20

CS-3	
9/17/2013	
PCBs (mg/kg) EPA 8082	(0-8)
Aroclor 1016	< 0.10
Aroclor 1221	< 0.20
Aroclor 1232	< 0.10
Aroclor 1242	< 0.10
Aroclor 1248	< 0.10
Aroclor 1254	< 0.10
Aroclor 1260	< 0.10

CS-7	
9/17/2013	
PCBs (mg/kg) EPA 8082	(0-6)
Aroclor 1016	< 0.99
Aroclor 1221	< 0.20
Aroclor 1232	< 0.99
Aroclor 1242	< 0.99
Aroclor 1248	< 0.99
Aroclor 1254	< 0.99
Aroclor 1260	< 0.99

CS-5	
9/17/2013	
PCBs (mg/kg) EPA 8082	(6)
Aroclor 1016	< 0.20
Aroclor 1221	< 0.40
Aroclor 1232	< 0.20
Aroclor 1242	< 0.20
Aroclor 1248	0.24
Aroclor 1254	< 0.20
Aroclor 1260	< 0.20

CS-6	
PCBs (mg/kg) EPA 8082	(0-6)
Aroclor 1016	< 0.10
Aroclor 1221	< 0.20
Aroclor 1232	< 0.10
Aroclor 1242	< 0.10
Aroclor 1248	0.14
Aroclor 1254	< 0.10
Aroclor 1260	< 0.10

CS-9	
9/17/2013	
PCBs (mg/kg) EPA 8082	(0-2)
Aroclor 1016	< 0.50
Aroclor 1221	< 0.99
Aroclor 1232	< 0.50
Aroclor 1242	< 0.50
Aroclor 1248	9.7
Aroclor 1254	< 0.50
Aroclor 1260	< 0.50

Legend

- Property Boundary
- <18 ppm, not excavated
- >18 ppm, excavated non-TSCA
- >50 ppm, 0-2 removed TSCA regulated material

Screening Levels	PCBs EPA 8082 (mg/kg)
U.S. EPA Unrestricted Use	1
Ohio EPA VAP Generic Direct Contact Commercial/Industrial	18
Ohio EPA VAP Generic Direct Contact Excavation/Construction Worker	42
TSCA Hazardous Waste	50

Notes:

a: Duplicate Sample

1: Bolded sample exceeds the U.S. EPA Unrestricted Use Screening Level (>1ppm)

50: Bolded Red sample exceeds the TSCA Hazardous Waste Screening Level (>50ppm)

Sample ID	Type	Depths
CS-1	Wall Composite	0-8
CS-2	Wall Composite	0-8
CS-3	Wall Composite	0-8
CS-4	Floor Composite	8
CS-5	Floor Composite	8
CS-6	Wall Composite	0-6
CS-7	Wall Composite	0-6
CS-8	Floor & Wall Composite	0-2
CS-9	Floor & Wall Composite	0-2
CS-10	Floor & Wall Composite	0-4
CS-10 (4-6)	Floor & Wall Composite	4-6
CS-10 (6-8)	Floor & Wall Composite	6-8
CS-10 (8-10)	Floor & Wall Composite	8-10
CS-11	Floor & Wall Composite	0-2
CS-12a	Duplicate of CS-11	0-2

Central Ohio Transit Authority
Columbus, Ohio

1333 Fields Avenue, Columbus, Ohio

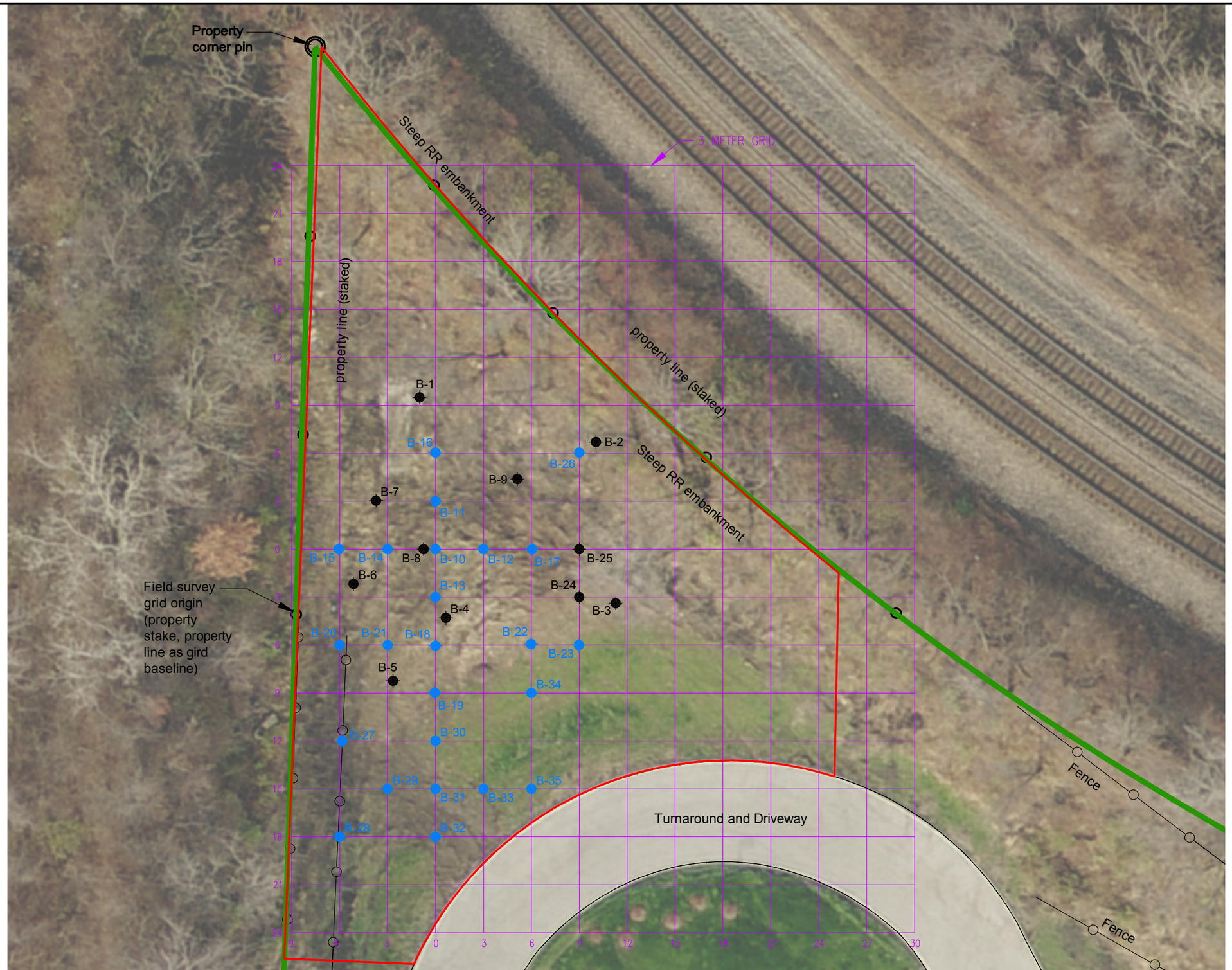
FIGURE NUMBER 6

SITE MAP WITH EXCAVATION EXTENT AND CONFIRMATION SOIL ANALYTICAL RESULTS FOR PCBS (mg/kg)

CBI

5050 Section Avenue
Cincinnati, Ohio 45212
www.CBI.com

M. Major - C:\CAD-GIS\AcadGIS 2012\COTA\GIS_Documents\Project_Maps\144938.151\144938.151-13.dwg - Thursday, 12/5/13 - 10:47 AM



Legend

- Derailment Subsurface Investigation Boring Locations (B1-B9, Shaw, November 2012)
- PCB Site Characterization Soil Boring Locations (B10-B-35, Shaw, 2013)
- Property Boundary
- Deed Notice Area

N

20 10 20

Feet

Central Ohio Transit Authority
Columbus, Ohio

1333 Fields Avenue, Columbus, Ohio

FIGURE NUMBER 7

SITE MAP WITH DEED NOTICE LEGAL DESCRIPTION

CBI

5050 Section Avenue
Cincinnati, Ohio 45212
www.CBI.com

M. Najar - C:\CAD-GIS\AcadGIS 2012\CDTA\GIS_Documents\Project_Maps\144938.151\144938.151-14.dwg - Monday, 12/9/13 - 1:33 PM

TABLE 1
SITE CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID	Depth	Date	Percent Moisture (%) ASTM D2974-87	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEPA TSCA Unrestricted Use				1	1	1	1	1	1	1
USEPA TSCA Institutional Deed				25	25	25	25	25	25	25
USEPA TSCA Hazardous Waste				50	50	50	50	50	50	50
OEPA VAP Direct Contact[b]				18	18	18	18	18	18	18
OEPA VAP Direct Contact[c]				42	42	42	42	42	42	42
B-1	2-4	11/14/2012	20	<0.12	<0.25	<0.12	<0.12	<0.12	<0.12	<0.12
	2-4[a]	11/14/2012	19	--	--	--	--	--	--	--
	16-18	11/14/2012	11	--	--	--	--	--	--	--
B-2	4-6	11/14/2012	16	<0.12	<0.24	<0.12	<0.12	<0.12	<0.12	<0.12
	12-14	11/14/2012	15	--	--	--	--	--	--	--
B-3	6-8	11/14/2012	18	<0.12	<0.25	<0.12	<0.12	<0.12	<0.12	<0.12
	10-12	11/14/2012	14	--	--	--	--	--	--	--
B-4	8-10	11/14/2012	27	<0.14	<0.27	<0.14	<0.14	<0.14	<0.14	<0.14
	10-12	11/14/2012	13	--	--	--	--	--	--	--
B-5	10-12	11/14/2012	13	<0.12	<0.23	<0.12	<0.12	<0.12	<0.12	<0.12
	18-20	11/14/2012	8.9	--	--	--	--	--	--	--
B-6	6-8	11/14/2012	18	<0.12	<0.24	<0.12	<0.12	<0.12	<0.12	<0.12
	14-16	11/14/2012	12	--	--	--	--	--	--	--
B-7	6-8	11/14/2012	17	<0.12	<0.24	<0.12	<0.12	<0.12	<0.12	<0.12
	14-16	11/14/2012	21	--	--	--	--	--	--	--
B-8	0-2	11/14/2012	7.7	**<11**	**<21**	**<11**	**<11**	**200**	**<11**	**<11**
	10-12	11/14/2012	13	--	--	--	--	--	--	--
B-9	2-4	11/14/2012	12	<0.11	<0.23	<0.11	<0.11	<0.11	0.11	<0.11
	12-14	11/14/2012	12	--	--	--	--	--	--	--
B-10	0-2	6/17/2013	11	**< 5.7**	**< 11**	**< 5.7**	**< 5.7**	**30**	**< 5.7**	**< 5.7**
	0-2[a]	6/17/2013	9.4	**< 1.1**	**< 2.2**	**< 1.1**	**< 1.1**	**23**	**< 1.1**	**< 1.1**
	2-4	6/17/2013	5.1	< 0.10	< 0.21	< 0.10	< 0.10	**5**	< 0.10	< 0.10
	4-6	6/17/2013	22	< 0.13	< 0.26	< 0.13	< 0.13	**2.3**	< 0.13	< 0.13
	6-8	6/17/2013	19	< 0.12	< 0.25	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12

TABLE 1
SITE CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID	Depth	Date	Percent Moisture (%) ASTM D2974-87	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEPA TSCA Unrestricted Use				1	1	1	1	1	1	1
USEPA TSCA Institutional Deed				25	25	25	25	25	25	25
USEPA TSCA Hazardous Waste				50	50	50	50	50	50	50
OEPA VAP Direct Contact[b]				18	18	18	18	18	18	18
OEPA VAP Direct Contact[c]				42	42	42	42	42	42	42
B-11	0-2	6/17/2013	8.7	< 0.11	< 0.22	< 0.11	< 0.11	**6.1**	< 0.11	< 0.11
	2-4	6/17/2013	21	< 0.13	< 0.25	< 0.13	< 0.13	0.17	< 0.13	< 0.13
	4-6	6/17/2013	9	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	6-8	6/17/2013	26	< 0.13	< 0.27	< 0.13	< 0.13	0.28	< 0.13	< 0.13
B-12	0-2	6/17/2013	8.4	< 0.11	< 0.22	< 0.11	< 0.11	0.52	< 0.11	< 0.11
	2-4	6/17/2013	7.9	< 0.11	< 0.22	< 0.11	< 0.11	0.17	< 0.11	< 0.11
	2-4[a]	6/17/2013	--	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	4-6	6/17/2013	24	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	6-8	6/17/2013	20	< 0.13	< 0.25	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
B-13	0-2	6/17/2013	12	**< 2.3**	**< 4.6**	**< 2.3**	**< 2.3**	**29**	**< 2.3**	**< 2.3**
	2-4	6/17/2013	11	< 0.11	< 0.23	< 0.11	< 0.11	< 0.11	< 0.11	**2**
	4-6	6/17/2013	28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
	6-8	6/17/2013	22	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
B-14	0-2	6/17/2013	13	< 0.12	< 0.23	< 0.12	< 0.12	**2.1**	< 0.12	< 0.12
	2-4	6/17/2013	7.9	< 0.11	< 0.22	< 0.11	< 0.11	0.23	< 0.11	< 0.11
	2-4[a]	6/17/2013	7.7	< 0.11	< 0.22	< 0.11	< 0.11	0.64	< 0.11	< 0.11
	4-6	6/17/2013	9.7	< 0.11	< 0.22	< 0.11	< 0.11	0.61	< 0.11	< 0.11
	6-8	6/17/2013	18	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
B-15	0-2	6/17/2013	22	< 0.13	< 0.25	< 0.13	< 0.13	0.33	< 0.13	< 0.13
	2-4	6/17/2013	11	< 0.11	< 0.23	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	4-6	6/17/2013	12	< 0.11	< 0.23	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	6-8	6/17/2013	9.8	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
B-16	0-2	6/17/2013	29	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
	2-4	6/17/2013	17	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	4-6	6/17/2013	14	< 0.12	< 0.23	< 0.12	< 0.12	0.14	< 0.12	< 0.12
	6-8	6/17/2013	14	< 0.12	< 0.23	< 0.12	< 0.12	**7.5**	< 0.12	< 0.12
	6-8[a]	6/17/2013	9.8	< 0.11	< 0.22	< 0.11	< 0.11	**6.7**	< 0.11	< 0.11

TABLE 1
SITE CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID	Depth	Date	Percent Moisture (%) ASTM D2974-87	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEPA TSCA Unrestricted Use				1	1	1	1	1	1	1
USEPA TSCA Institutional Deed				25	25	25	25	25	25	25
USEPA TSCA Hazardous Waste				50	50	50	50	50	50	50
OEPA VAP Direct Contact[b]				18	18	18	18	18	18	18
OEPA VAP Direct Contact[c]				42	42	42	42	42	42	42
B-17	0-2	6/17/2013	17	< 0.12	< 0.24	< 0.12	< 0.12	**2.1**	< 0.12	< 0.12
	2-4	6/17/2013	15	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	4-6	6/17/2013	21	< 0.13	< 0.26	< 0.13	< 0.13	0.35	< 0.13	< 0.13
	6-8	6/17/2013	22	< 0.13	< 0.25	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
B-18	0-2	6/17/2013	8.3	**< 11**	**< 22**	**< 11**	**< 11**	**50**	**< 11**	**< 11**
	0-2[a]	6/17/2013	22	**< 2.6**	**< 5.1**	**< 2.6**	**< 2.6**	**24**	**< 2.6**	**< 2.6**
	2-4	6/17/2013	20	< 0.12	< 0.25	< 0.12	< 0.12	0.42	< 0.12	< 0.12
	4-6	6/17/2013	18	< 0.12	< 0.24	< 0.12	< 0.12	0.88	< 0.12	< 0.12
	6-8	6/17/2013	20	< 0.13	< 0.25	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
B-19	0-2	6/28/2013	11	**<11**	**<22**	**<11**	**<11**	**110**	**<11**	**<11**
	0-2[a]	6/28/2013	11	**<22**	**<45**	**<22**	**<22**	**200**	**<22**	**<22**
	2-4	6/28/2013	20	**<6.2**	**<12**	**<6.2**	**<6.2**	**75**	**<6.2**	**<6.2**
	4-6	7/16/2013	14	**< 5.8**	**< 12**	**< 5.8**	**< 5.8**	**56**	**< 5.8**	**< 5.8**
	6-8	7/16/2013	17	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
B-20	0-2	6/28/2013	15	<0.12	<0.23	<0.12	<0.12	0.16	<0.12	<0.12
	2-4	6/28/2013	12	<0.11	<0.23	<0.11	<0.11	**1.7**	<0.11	<0.11
B-21	0-2	6/28/2013	15	**<12**	**<23**	**<12**	**<12**	**38**	**<12**	**<12**
	2-4	6/28/2013	15	<0.12	<0.23	<0.12	<0.12	**1.3**	<0.12	<0.12
B-22	0-2	6/28/2013	11	<0.11	<0.22	<0.11	<0.11	**8.6**	<0.11	<0.11
	2-4	6/28/2013	18	<0.12	<0.24	<0.12	<0.12	0.27	<0.12	<0.12
B-23	0-2	6/28/2013	17	<0.12	<0.24	<0.12	<0.12	<0.12	<0.12	<0.12
	2-4	6/28/2013	22	<0.13	<0.26	<0.13	<0.13	**3.1**	<0.13	<0.13
B-24	0-2	6/28/2013	8.6	<0.11	<0.22	<0.11	<0.11	0.31	<0.11	<0.11
	2-4	6/28/2013	10	<0.11	<0.22	<0.11	<0.11	<0.11	<0.11	<0.11

TABLE 1
SITE CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID	Depth	Date	Percent Moisture (%) ASTM D2974-87	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEPA TSCA Unrestricted Use				1	1	1	1	1	1	1
USEPA TSCA Institutional Deed				25	25	25	25	25	25	25
USEPA TSCA Hazardous Waste				50	50	50	50	50	50	50
OEPA VAP Direct Contact[b]				18	18	18	18	18	18	18
OEPA VAP Direct Contact[c]				42	42	42	42	42	42	42
B-25	0-2	6/28/2013	16	<0.12	<0.24	<0.12	<0.12	<0.12	<0.12	<0.12
	2-4	6/28/2013	20	<0.13	<0.25	<0.13	<0.13	**5.8**	<0.13	<0.13
	2-4[a]	6/28/2013	20	<0.12	<0.25	<0.12	<0.12	**6.9**	<0.12	<0.12
B-26	0-2	6/28/2013	16	<0.12	<0.24	<0.12	<0.12	0.18	<0.12	<0.12
	2-4	6/28/2013	14	<0.11	<0.23	<0.11	<0.11	0.19	<0.11	<0.11
B-27	0-2	7/16/2013	17	< 0.12	< 0.24	< 0.12	< 0.12	**2.7**	< 0.12	< 0.12
	2-4	7/16/2013	11	< 0.11	< 0.23	< 0.11	< 0.11	**3.4**	< 0.11	< 0.11
	4-6	7/16/2013	12	< 0.11	< 0.23	< 0.11	< 0.11	**2.7**	< 0.11	< 0.11
	6-8	7/16/2013	15	< 0.12	< 0.23	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
B-28	0-2	7/16/2013	8.3	< 0.54	< 1.1	< 0.54	< 0.54	**6.3**	< 0.54	< 0.54
	2-4	7/16/2013	6.0	< 0.11	< 0.21	< 0.11	< 0.11	0.64	< 0.11	< 0.11
	4-6	7/16/2013	9.2	< 0.11	< 0.22	< 0.11	< 0.11	0.56	< 0.11	< 0.11
	6-8	7/16/2013	11	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
B-29	0-2	7/16/2013	16	< 0.59	**< 1.2**	< 0.59	< 0.59	**12**	< 0.59	< 0.59
	2-4	7/16/2013	17	**< 2.4**	**< 4.8**	**< 2.4**	**< 2.4**	**20**	**< 2.4**	**< 2.4**
	4-6	7/16/2013	22	< 0.13	< 0.25	< 0.13	< 0.13	**4.6**	< 0.13	< 0.13
	6-8	7/16/2013	25	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	**1.5**	< 0.13
B-30	0-2	7/16/2013	10	**< 1.1**	**< 2.2**	**< 1.1**	**< 1.1**	**55**	**< 1.1**	**< 1.1**
	2-4	7/16/2013	11	**< 2.2**	**< 4.5**	**< 2.2**	**< 2.2**	**47**	**< 2.2**	**< 2.2**
	4-6	7/16/2013	13	< 0.12	< 0.23	< 0.12	< 0.12	0.27	< 0.12	< 0.12
	6-8	7/16/2013	18	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12

TABLE 1
SITE CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID	Depth	Date	Percent Moisture (%) ASTM D2974-87	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEPA TSCA Unrestricted Use				1	1	1	1	1	1	1
USEPA TSCA Institutional Deed				25	25	25	25	25	25	25
USEPA TSCA Hazardous Waste				50	50	50	50	50	50	50
OEPA VAP Direct Contact[b]				18	18	18	18	18	18	18
OEPA VAP Direct Contact[c]				42	42	42	42	42	42	42
B-31	0-2	7/16/2013	25	< 0.13	< 0.27	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	2-4	7/16/2013	21	< 0.13	< 0.25	< 0.13	< 0.13	**1.8**	< 0.13	< 0.13
	4-6	7/16/2013	15	< 0.12	< 0.24	< 0.12	< 0.12	0.4	< 0.12	< 0.12
	6-8	7/16/2013	14	< 0.12	< 0.23	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
B-32	0-2	7/16/2013	18	< 0.12	< 0.25	< 0.12	< 0.12	**2.4**	< 0.12	< 0.12
	2-4	7/16/2013	10	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	2-4[a]	7/16/2013	14	< 0.12	< 0.23	< 0.12	< 0.12	0.12	< 0.12	< 0.12
	4-6	7/16/2013	14	< 0.12	< 0.23	< 0.12	< 0.12	0.26	< 0.12	< 0.12
	6-8	7/16/2013	18	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
B-33	0-2	7/16/2013	7.9	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	0-2[a]	7/16/2013	7.3	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	2-4	7/16/2013	13	< 0.11	< 0.23	< 0.11	< 0.11	0.6	< 0.11	< 0.11
	4-6	7/16/2013	11	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
	6-8	7/16/2013	11	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
B-34	0-2	7/16/2013	14	**< 1.2**	**< 2.3**	**< 1.2**	**< 1.2**	**24**	**< 1.2**	**< 1.2**
	2-4	7/16/2013	14	< 0.12	< 0.23	< 0.12	< 0.12	**6.2**	< 0.12	< 0.12
	4-6	7/16/2013	18	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	4-6[a]	7/16/2013	21	< 0.13	< 0.25	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	6-8	7/16/2013	20	< 0.12	< 0.25	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
B-35	0-2	7/16/2013	16	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	0-2[a]	7/16/2013	15	< 0.12	< 0.23	< 0.12	< 0.12	**1.6**	< 0.12	< 0.12
	2-4	7/16/2013	15	< 0.12	< 0.24	< 0.12	< 0.12	**1.5**	< 0.12	< 0.12
	4-6	7/16/2013	16	< 0.12	< 0.24	< 0.12	< 0.12	**1.8**	< 0.12	< 0.12
	6-8	7/16/2013	17	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12

Notes:
a: Duplicate Sample
<: Concentration is less than the Reporting Limit.
1.7: Bolded Concentrations exceed U.S. EPA Unrestricted Use
200: Red Bolded Concentrations exceed TSCA Hazardous Waste
-- : Not analyzed

TABLE 2
WASTE CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/L)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**U.S. EPA Maximum Concentration of Contaminants for Toxicity (mg/L)**	**Composite B-10**	**Composite 1**	**Composite 2**
Date			**6/17/2013**	**7/16/2013**	**7/16/2013**
Moisture	**%**				
				20	12
TCLP Metals					
Mercury	mg/L	0.2	<0.00050	<0.00050	<0.00050
Arsenic	mg/L	5.0	<0.10	< 0.10	< 0.10
Barium	mg/L	100.0	1.4	0.87	0.94
Cadmium	mg/L	1.0	<0.10	< 0.10	< 0.10
Chromium	mg/L	5.0	<0.10	< 0.10	< 0.10
Lead	mg/L	5.0	<0.10	< 0.10	< 0.10
Selenium	mg/L	1.0	<0.10	< 0.10	< 0.10
Silver	mg/L	5.0	<0.10	< 0.10	< 0.10
TCLP SVOCs					
1,4-Dichlorobenzene	mg/L	7.5	--	< 0.040	< 0.040
2,4,5-Trichlorophenol	mg/L	400.0	--	< 0.040	< 0.040
2,4,6-Trichlorophenol	mg/L	2.0	--	< 0.040	< 0.040
2,4-Dinitrotoluene	mg/L	0.1	--	< 0.040	< 0.040
2-Methylphenol	mg/L	NA	--	< 0.040	< 0.040
3&4-Methylphenol	mg/L	NA	--	< 0.040	< 0.040
Hexachloro-1,3-butadiene	mg/L	0.5	--	< 0.040	< 0.040
Hexachlorobenzene	mg/L	0.1	--	< 0.040	< 0.040
Hexachloroethane	mg/L	3.0	--	< 0.040	< 0.040
Nitrobenzene	mg/L	2.0	--	< 0.040	< 0.040
Pentachlorophenol	mg/L	100.0	--	< 0.040	< 0.040
Pyridine	mg/L	5.0	--	< 0.040	< 0.040
TCLP VOCs					
1,1-Dichloroethene	mg/L	0.7	--	< 0.0050	< 0.0050
1,2-Dichloroethane	mg/L	0.5	--	< 0.0050	< 0.0050
1,4-Dichlorobenzene	mg/L	7.5	--	< 0.0050	< 0.0050
2-Butanone (MEK)	mg/L	200.0	--	0.17	0.18
Benzene	mg/L	0.5	--	< 0.0050	< 0.0050
Carbon tetrachloride	mg/L	0.5	--	< 0.0050	< 0.0050
Chlorobenzene	mg/L	100.0	--	< 0.0050	< 0.0050
Chloroform	mg/L	6.0	--	< 0.0050	< 0.0050
Tetrachloroethene	mg/L	0.7	--	< 0.0050	< 0.0050
Trichloroethene	mg/L	0.5	--	< 0.0050	< 0.0050
Vinyl chloride	mg/L	0.2	--	< 0.0050	< 0.0050

Notes:
<: Concentration is less than the Reporting Limit.
NA: Not available/Not listed
--:Not analyzed

TABLE 3
FILL CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		USEPA TSCA Hazardous Waste	Ohio VAP	BUSTR Reuse Levels	OSR2-1	OSR2-2	OSR2-3
Date					9/17/2013	9/17/2013	9/17/2013
Moisture							
	%				61	5	17
PCBs							
Aroclor 1016	mg/kg	50	18	NA	< 0.10	< 0.10	< 0.10
Aroclor 1221	mg/kg	50	18	NA	< 0.20	< 0.20	< 0.20
Aroclor 1232	mg/kg	50	18	NA	< 0.10	< 0.10	< 0.10
Aroclor 1242	mg/kg	50	18	NA	< 0.10	< 0.10	< 0.10
Aroclor 1248	mg/kg	50	18	NA	< 0.10	< 0.10	< 0.10
Aroclor 1254	mg/kg	50	18	NA	< 0.10	< 0.10	< 0.10
Aroclor 1260	mg/kg	50	18	NA	< 0.10	< 0.10	< 0.10
Metals							
Arsenic	mg/kg	NA	610	NA	31	37	32
Barium	mg/kg	NA	370000	NA	81	72	71
Cadmium	mg/kg	NA	2300	NA	< 0.99	< 0.99	< 0.99
Chromium	mg/kg	NA	4400000	NA	12	14	11
Lead	mg/kg	NA	NA	NA	43	22	30
Selenium	mg/kg	NA	15000	NA	< 3.00	< 3.00	< 3.00
Silver	mg/kg	NA	15000	NA	< 0.99	< 0.99	< 0.99
SVOCs							
Benzo(a)anthracene	mg/kg	NA	NA	2.2	< 0.33	< 0.33	< 0.33
Benzo(b)fluoranthene	mg/kg	NA	NA	5.53	< 0.33	< 0.33	< 0.33
Benzo(k)fluoranthene	mg/kg	NA	NA	1.97	< 0.33	< 0.33	< 0.33
Benzo(a)pyrene	mg/kg	NA	NA	1.1	< 0.33	< 0.33	< 0.33
Chrysene	mg/kg	NA	NA	1.27	< 0.33	< 0.33	< 0.33
Dibenzo(a,h)anthracene	mg/kg	NA	NA	0.94	< 0.33	< 0.33	< 0.33
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	0.15	< 0.15	< 0.15	< 0.15
Naphthalene	mg/kg	NA	280	3.98	< 0.33	< 0.33	< 0.33
1,2,4,5-Tetrachlorobenzene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
1,2-Dichlorobenzene	mg/kg	NA	4600	NA	< 0.33	< 0.33	< 0.33
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
1,3-Dinitrobenzene	mg/kg	NA	110	NA	< 0.33	< 0.33	< 0.33
1,4-Dichlorobenzene	mg/kg	NA	17000	NA	< 0.33	< 0.33	< 0.33
1-Methylnaphthalene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33

TABLE 3
FILL CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		USEPA TSCA Hazardous Waste	Ohio VAP	BUSTR Reuse Levels	OSR2-1	OSR2-2	OSR2-3
Date					9/17/2013	9/17/2013	9/17/2013
1-Naphthylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2,3,4,6-Tetrachlorophenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2,4,5-Trichlorophenol	mg/kg	NA	110000	NA	< 0.33	< 0.33	< 0.33
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2,4-Dichlorophenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2,4-Dimethylphenol	mg/kg	NA	22000	NA	< 0.33	< 0.33	< 0.33
2,4-Dinitrophenol	mg/kg	NA	NA	NA	< 1.70	< 1.60	< 1.70
2,4-Dinitrotoluene	mg/kg	NA	2200	NA	< 0.33	< 0.33	< 0.33
2,6-Dichlorophenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2,6-Dinitrotoluene	mg/kg	NA	1100	NA	< 0.33	< 0.33	< 0.33
2-Acetylaminofluorene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2-Chloronaphthalene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2-Chlorophenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2-Methylnaphthalene	mg/kg	NA	3700	NA	< 0.33	< 0.33	< 0.33
2-Methylphenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2-Naphthylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2-Nitroaniline	mg/kg	NA	NA	NA	< 1.70	< 1.60	< 1.70
2-Nitrophenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
2-Picoline	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
3&4-Methylphenol	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
3,3`-Dichlorobenzidine	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
3-Methylcholanthrene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
3-Nitroaniline	mg/kg	NA	NA	NA	< 1.70	< 1.60	< 1.70
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	< 1.70	< 1.60	< 1.70
4-Aminobiphenyl	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
4-Bromophenyl phenyl ether	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
4-Chloroaniline	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
4-Chlorophenyl phenyl ether	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
4-Nitroaniline	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
4-Nitrophenol	mg/kg	NA	NA	NA	< 1.70	< 1.60	< 1.70
4-Nitroquinoline 1-oxide	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
5-Nitro-o-toluidine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
7,12-Dimethylbenz(a)anthracene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33

TABLE 3
FILL CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**USEPA TSCA Hazardous Waste**	**Ohio VAP**	**BUSTR Reuse Levels**	**OSR2-1**	**OSR2-2**	**OSR2-3**
Date					**9/17/2013**	**9/17/2013**	**9/17/2013**
Acenaphthene	mg/kg	NA	56000	NA	< 0.33	< 0.33	< 0.33
Acenaphthylene	mg/kg	NA	56000	NA	< 0.33	< 0.33	< 0.33
Acetophenone	mg/kg	NA	110000	NA	< 0.33	< 0.33	< 0.33
Aniline	mg/kg	NA	540	NA	< 0.33	< 0.33	< 0.33
Anthracene	mg/kg	NA	280000	NA	< 0.33	< 0.33	< 0.33
Azobenzene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Benzidine	mg/kg	NA	3400	NA	< 0.33	< 0.33	< 0.33
Benzo(g,h,i)perylene	mg/kg	NA	28000	NA	< 0.33	< 0.33	< 0.33
Benzyl alcohol	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
Bis(2-chloroethoxy)methane	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Bis(2-chloroethyl)ether	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Bis(2-ethylhexyl)phthalate	mg/kg	NA	22000	NA	< 0.33	< 0.33	< 0.33
Butyl benzyl phthalate	mg/kg	NA	220000	NA	< 0.33	< 0.33	< 0.33
Carbazole	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Dibenzofuran	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Diethyl phthalate	mg/kg	NA	900000	NA	< 0.33	< 0.33	< 0.33
Dimethyl phthalate	mg/kg	NA	900000	NA	< 0.33	< 0.33	< 0.33
Di-n-butyl phthalate	mg/kg	NA	110000	NA	< 0.33	< 0.33	< 0.33
Di-n-octyl phthalate	mg/kg	NA	45000	NA	< 0.33	< 0.33	< 0.33
Dinoseb	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Diphenylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Ethyl methanesulfonate	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Fluoranthene	mg/kg	NA	37000	NA	< 0.33	< 0.33	< 0.33
Fluorene	mg/kg	NA	37000	NA	< 0.33	< 0.33	< 0.33
Hexachlorobenzene	mg/kg	NA	900	NA	< 0.33	< 0.33	< 0.33
Hexachlorobutadiene	mg/kg	NA	220	NA	< 0.33	< 0.33	< 0.33
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Hexachloroethane	mg/kg	NA	1100	NA	< 0.33	< 0.33	< 0.33
Isophorone	mg/kg	NA	140000	NA	< 0.33	< 0.33	< 0.33
Isosafrole	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Methapyrilene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Methyl methanesulfonate	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Nitrobenzene	mg/kg	NA	170	NA	< 0.33	< 0.33	< 0.33

TABLE 3
FILL CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**USEPA TSCA Hazardous Waste**	**Ohio VAP**	**BUSTR Reuse Levels**	**OSR2-1**	**OSR2-2**	**OSR2-3**
Date					**9/17/2013**	**9/17/2013**	**9/17/2013**
N-Nitrosodiethylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitrosodimethylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitroso-di-n-butylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitrosodi-n-propylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitrosomethylethylamine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitrosomorpholine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitrosopiperidine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
N-Nitrosopyrrolidine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
o-Toluidine	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
p-Dimethylaminoazobenzene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Pentachlorobenzene	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Pentachloroethane	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
Pentachloronitrobenzene	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
Pentachlorophenol	mg/kg	NA	17000	NA	< 1.70	< 1.60	< 1.70
Phenacetin	mg/kg	NA	NA	NA	< 0.66	< 0.66	< 0.66
Phenanthrene	mg/kg	NA	280000	NA	< 0.33	< 0.33	< 0.33
Phenol	mg/kg	NA	66000	NA	< 0.33	< 0.33	< 0.33
Pyrene	mg/kg	NA	28000	NA	< 0.33	< 0.33	< 0.33
Pyridine	mg/kg	NA	1100	NA	< 0.33	< 0.33	< 0.33
Safrole	mg/kg	NA	NA	NA	< 0.33	< 0.33	< 0.33
VOCs							
Benzene	mg/kg	NA	170	0.015	< 0.005	< 0.005	< 0.005
Toluene	mg/kg	NA	33000	4.91	< 0.005	< 0.005	< 0.005
Ethylbenzene	mg/kg	NA	8500	4.55	< 0.005	< 0.005	< 0.005
o, m, and p Xylenes	mg/kg	NA	NA	15.7	< 0.005	< 0.005	< 0.005
Xylenes, total	mg/kg	NA	1500	NA	< 0.005	< 0.005	< 0.005
Methyl tertiary butyl ether (MTBE)	mg/kg	NA	28000	0.047	< 0.005	< 0.005	< 0.005
1,1,1,2-Tetrachloroethane	mg/kg	NA	88000	NA	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	mg/kg	NA	11000	NA	< 0.005	< 0.005	< 0.005
1,1,2,2-Tetrachloroethane	mg/kg	NA	180000	NA	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	mg/kg	NA	12000	NA	< 0.005	< 0.005	< 0.005
1,1-Dichloroethane	mg/kg	NA	3000	NA	< 0.005	< 0.005	< 0.005
1,1-Dichloroethene	mg/kg	NA	610	NA	< 0.005	< 0.005	< 0.005
1,1-Dichloropropene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005

TABLE 3
FILL CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**USEPA TSCA Hazardous Waste**	**Ohio VAP**	**BUSTR Reuse Levels**	**OSR2-1**	**OSR2-2**	**OSR2-3**
Date					**9/17/2013**	**9/17/2013**	**9/17/2013**
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,2,3-Trichloropropane	mg/kg	NA	18000	NA	< 0.005	< 0.005	< 0.005
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,2,4-Trimethylbenzene	mg/kg	NA	120	NA	< 0.005	< 0.005	< 0.005
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,2-Dibromoethane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,2-Dichloroethane	mg/kg	NA	17000	NA	< 0.005	< 0.005	< 0.005
1,2-Dichloropropane	mg/kg	NA	31	NA	< 0.005	< 0.005	< 0.005
1,3,5-Trimethylbenzene	mg/kg	NA	95	NA	< 0.005	< 0.005	< 0.005
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,3-Dichloropropane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
2,2-Dichloropropane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
2-Butanone	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
2-Chlorotoluene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
2-Hexanone	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
4-Chlorotoluene	mg/kg	NA	22000	NA	< 0.005	< 0.005	< 0.005
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Acetone	mg/kg	NA	850000	NA	< 0.005	< 0.005	< 0.005
Bromobenzene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Bromochloromethane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Bromodichloromethane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Bromoform	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Bromomethane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Carbon disulfide	mg/kg	NA	2200	NA	< 0.005	< 0.005	< 0.005
Carbon tetrachloride	mg/kg	NA	8.2	NA	< 0.005	< 0.005	< 0.005
Chlorobenzene	mg/kg	NA	710	NA	< 0.005	< 0.005	< 0.005
Chloroethane	mg/kg	NA	18000	NA	< 0.005	< 0.005	< 0.005
Chloroform	mg/kg	NA	600	NA	< 0.005	< 0.005	< 0.005
Chloromethane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
cis-1,2-Dichloroethene	mg/kg	NA	29000	NA	< 0.005	< 0.005	< 0.005
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Dibromochloromethane	mg/kg	NA	59000	NA	< 0.005	< 0.005	< 0.005

TABLE 3
FILL CHARACTERIZATION SOIL ANALYTICAL RESULTS (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**USEPA TSCA Hazardous Waste**	**Ohio VAP**	**BUSTR Reuse Levels**	**OSR2-1**	**OSR2-2**	**OSR2-3**
Date					**9/17/2013**	**9/17/2013**	**9/17/2013**
Dibromomethane	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Dichlorodifluoromethane	mg/kg	NA	520	NA	< 0.005	< 0.005	< 0.005
Hexachlorobutadiene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Isopropylbenzene	mg/kg	NA	5700	NA	< 0.005	< 0.005	< 0.005
Methylene chloride	mg/kg	NA	4900	NA	< 0.005	< 0.005	< 0.005
Naphthalene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
n-Butylbenzene	mg/kg	NA	52000	NA	< 0.005	< 0.005	< 0.005
n-Propylbenzene	mg/kg	NA	5800	NA	< 0.005	< 0.005	< 0.005
p-Isopropyltoluene	mg/kg	NA	220000	NA	< 0.005	< 0.005	< 0.005
sec-Butylbenzene	mg/kg	NA	62000	NA	< 0.005	< 0.005	< 0.005
Styrene	mg/kg	NA	29000	NA	< 0.005	< 0.005	< 0.005
tert-Butylbenzene	mg/kg	NA	46000	NA	< 0.005	< 0.005	< 0.005
Tetrachloroethene	mg/kg	NA	1700	NA	< 0.005	< 0.005	< 0.005
trans-1,2-Dichloroethene	mg/kg	NA	260	NA	< 0.005	< 0.005	< 0.005
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	< 0.005	< 0.005	< 0.005
Trichloroethene	mg/kg	NA	3200	NA	< 0.005	< 0.005	< 0.005
Trichlorofluoromethane	mg/kg	NA	1600	NA	< 0.005	< 0.005	< 0.005
Vinyl chloride	mg/kg	NA	210	NA	< 0.005	< 0.005	< 0.005

Notes:
<: Concentration is less than the Reporting Limit.
1.7: Bolded Concentrations exceed BUSTR Reuse Levels
NA: Not available/Not listed
--:Not analyzed

TABLE 4
EXCAVATION CONFIRMATION SOIL ANALYTICAL RESULTS - PCBs (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID	Depth/ Description	Date	Percent Moisture (%) ASTM D2974-87	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEPA TSCA Unrestricted Use				1	1	1	1	1	1	1
USEPA TSCA Institutional Deed				25	25	25	25	25	25	25
USEPA TSCA Hazardous Waste				50	50	50	50	50	50	50
OEPA VAP Direct Contact[b]				18	18	18	18	18	18	18
OEPA VAP Direct Contact[c]				42	42	42	42	42	42	42
CS-1	0-8	9/17/2013	18	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
CS-2	0-8	9/17/2013	17	< 0.099	< 0.20	< 0.099	< 0.099	2.0	< 0.099	< 0.099
CS-3	0-8	9/17/2013	16	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
CS-4	8	9/17/2013	15	< 0.10	< 0.20	< 0.10	< 0.10	0.33	< 0.10	< 0.10
CS-5	6	9/17/2013	17	< 0.20	< 0.40	< 0.20	< 0.20	0.24	< 0.20	< 0.20
CS-6	0-6	9/17/2013	17	< 0.10	< 0.20	< 0.10	< 0.10	0.14	< 0.10	< 0.10
CS-7	0-6	9/17/2013	19	< 0.099	< 0.20	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
CS-8	0-2	9/17/2013	10	< 0.099	< 0.20	< 0.099	< 0.099	0.3	< 0.099	< 0.099
CS-9	0-2	9/17/2013	10	< 0.50	< 0.99	< 0.50	< 0.50	9.7	< 0.50	< 0.50
CS-10	0-4	9/17/2013	22	< 1.0	< 2.0	< 1.0	< 1.0	***29***	< 1.0	< 1.0
CS-10	4-6	9/20/2013	17	< 0.99	< 2.0	< 0.99	< 0.99	***49***	< 0.99	< 0.99
CS-10	6-8	9/23/2013	19	< 0.99	< 0.20	< 0.99	< 0.99	3.1	< 0.99	< 0.99
CS-10	8-10	9/23/2013	18	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
CS-11	0-2	9/17/2013	14	< 0.50	< 0.99	< 0.50	< 0.50	**25**	< 0.50	< 0.50
CS-11[a]	0-2	9/17/2013	16	< 0.20	< 0.40	< 0.20	< 0.20	0.17	< 0.20	< 0.20

Notes:
Composite samples.
a: Duplicate sample of CS-11
1.7: Bolded Concentrations exceed U.S. EPA Unrestricted Use
1.7: Italicized Concentrations exceed U.S. EPA Institutional Deed Value

TABLE 5
EXCAVATION CONFIRMATION SOIL ANALYTICAL RESULTS - VOCs (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**Ohio VAP Generic Numberical Standards**	**CS-4**
Date			**9/17/2013**
Moisture			
	%		15
Metals			
Arsenic	mg/kg	610	27
Barium	mg/kg	370000	88
Cadmium	mg/kg	2300	< 0.99
Chromium	mg/kg	4400000	11
Lead	mg/kg	NA	22
Selenium	mg/kg	15000	< 3.00
Silver	mg/kg	15000	< 0.99
SVOCs			
1,2,4,5-Tetrachlorobenzene	mg/kg	NA	< 0.330
1,2,4-Trichlorobenzene	mg/kg	NA	< 0.330
1,2-Dichlorobenzene	mg/kg	4600	< 0.330
1,3-Dichlorobenzene	mg/kg	NA	< 0.330
1,3-Dinitrobenzene	mg/kg	110	< 0.330
1,4-Dichlorobenzene	mg/kg	17000	< 0.330
1-Methylnaphthalene	mg/kg	NA	< 0.330
1-Naphthylamine	mg/kg	NA	< 0.330
2,3,4,6-Tetrachlorophenol	mg/kg	NA	< 0.330
2,4,5-Trichlorophenol	mg/kg	110000	< 0.330
2,4,6-Trichlorophenol	mg/kg	NA	< 0.330
2,4-Dichlorophenol	mg/kg	NA	< 0.330
2,4-Dimethylphenol	mg/kg	22000	< 0.330
2,4-Dinitrophenol	mg/kg	NA	< 1.600
2,4-Dinitrotoluene	mg/kg	2200	< 0.330
2,6-Dichlorophenol	mg/kg	NA	< 0.330
2,6-Dinitrotoluene	mg/kg	1100	< 0.330
2-Acetylaminofluorene	mg/kg	NA	< 0.330
2-Chloronaphthalene	mg/kg	NA	< 0.330
2-Chlorophenol	mg/kg	NA	< 0.330
2-Methylnaphthalene	mg/kg	3700	< 0.330
2-Methylphenol	mg/kg	NA	< 0.330
2-Naphthylamine	mg/kg	NA	< 0.330
2-Nitroaniline	mg/kg	NA	< 1.600
2-Nitrophenol	mg/kg	NA	< 0.330
2-Picoline	mg/kg	NA	< 0.330
3&4-Methylphenol	mg/kg	NA	< 0.330
3,3`-Dichlorobenzidine	mg/kg	NA	< 0.660
3-Methylcholanthrene	mg/kg	NA	< 0.330
3-Nitroaniline	mg/kg	NA	< 1.600
4,6-Dinitro-2-methylphenol	mg/kg	NA	< 1.600
4-Aminobiphenyl	mg/kg	NA	< 0.660
4-Bromophenyl phenyl ether	mg/kg	NA	< 0.330
4-Chloro-3-methylphenol	mg/kg	NA	< 0.660
4-Chloroaniline	mg/kg	NA	< 0.660
4-Chlorophenyl phenyl ether	mg/kg	NA	< 0.330
4-Nitroaniline	mg/kg	NA	< 0.660
4-Nitrophenol	mg/kg	NA	< 1.600
4-Nitroquinoline 1-oxide	mg/kg	NA	< 0.330

TABLE 5
EXCAVATION CONFIRMATION SOIL ANALYTICAL RESULTS - VOCs (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**Ohio VAP Generic Numberical Standards**	**CS-4**
Date			**9/17/2013**
5-Nitro-o-toluidine	mg/kg	NA	< 0.330
7,12-Dimethylbenz(a)anthracene	mg/kg	NA	< 0.330
Acenaphthene	mg/kg	56000	< 0.330
Acenaphthylene	mg/kg	56000	< 0.330
Acetophenone	mg/kg	110000	< 0.330
Aniline	mg/kg	540	< 0.330
Anthracene	mg/kg	280000	< 0.330
Azobenzene	mg/kg	NA	< 0.330
Benzidine	mg/kg	3400	< 0.330
Benzo(a)anthracene	mg/kg	NA	< 0.330
Benzo(a)pyrene	mg/kg	NA	< 0.330
Benzo(b)fluoranthene	mg/kg	NA	< 0.330
Benzo(g,h,i)perylene	mg/kg	28000	< 0.330
Benzo(k)fluoranthene	mg/kg	NA	< 0.330
Benzyl alcohol	mg/kg	NA	< 0.660
Bis(2-chloroethoxy)methane	mg/kg	NA	< 0.330
Bis(2-chloroethyl)ether	mg/kg	NA	< 0.330
Bis(2-chloroisopropyl)ether	mg/kg	NA	< 0.330
Bis(2-ethylhexyl)phthalate	mg/kg	22000	< 0.330
Butyl benzyl phthalate	mg/kg	220000	< 0.330
Carbazole	mg/kg	NA	< 0.330
Chrysene	mg/kg	NA	< 0.330
Dibenzo(a,h)anthracene	mg/kg	NA	< 0.330
Dibenzofuran	mg/kg	NA	< 0.330
Diethyl phthalate	mg/kg	900000	< 0.330
Dimethyl phthalate	mg/kg	900000	< 0.330
Di-n-butyl phthalate	mg/kg	110000	< 0.330
Di-n-octyl phthalate	mg/kg	45000	< 0.330
Dinoseb	mg/kg	NA	< 0.330
Diphenylamine	mg/kg	NA	< 0.330
Ethyl methanesulfonate	mg/kg	NA	< 0.330
Fluoranthene	mg/kg	37000	< 0.330
Fluorene	mg/kg	37000	< 0.330
Hexachlorobenzene	mg/kg	900	< 0.330
Hexachlorobutadiene	mg/kg	220	< 0.330
Hexachlorocyclopentadiene	mg/kg	NA	< 0.330
Hexachloroethane	mg/kg	1100	< 0.330
Indeno(1,2,3-cd)pyrene	mg/kg	NA	< 0.150
Isophorone	mg/kg	140000	< 0.330
Isosafrole	mg/kg	NA	< 0.330
Methapyrilene	mg/kg	NA	< 0.330
Methyl methanesulfonate	mg/kg	NA	< 0.330
Naphthalene	mg/kg	NA	< 0.330
Nitrobenzene	mg/kg	170	< 0.330
N-Nitrosodiethylamine	mg/kg	NA	< 0.330
N-Nitrosodimethylamine	mg/kg	NA	< 0.330
N-Nitroso-di-n-butylamine	mg/kg	NA	< 0.330
N-Nitrosodi-n-propylamine	mg/kg	NA	< 0.330
N-Nitrosomethylethylamine	mg/kg	NA	< 0.330
N-Nitrosomorpholine	mg/kg	NA	< 0.330

TABLE 5
EXCAVATION CONFIRMATION SOIL ANALYTICAL RESULTS - VOCs (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**Ohio VAP Generic Numberical Standards**	**CS-4**
Date			**9/17/2013**
N-Nitrosopiperidine	mg/kg	NA	< 0.330
N-Nitrosopyrrolidine	mg/kg	NA	< 0.330
o-Toluidine	mg/kg	NA	< 0.330
p-Dimethylaminoazobenzene	mg/kg	NA	< 0.330
Pentachlorobenzene	mg/kg	NA	< 0.330
Pentachloroethane	mg/kg	NA	< 0.330
Pentachloronitrobenzene	mg/kg	NA	< 0.660
Pentachlorophenol	mg/kg	17000	< 1.600
Phenacetin	mg/kg	NA	< 0.660
Phenanthrene	mg/kg	280000	< 0.330
Phenol	mg/kg	66000	< 0.330
Pyrene	mg/kg	28000	< 0.330
Pyridine	mg/kg	1100	< 0.330
Safrole	mg/kg	NA	< 0.330
VOCs			
1,1,1,2-Tetrachloroethane	mg/kg	88000	< 0.025
1,1,1-Trichloroethane	mg/kg	11000	< 0.025
1,1,2,2-Tetrachloroethane	mg/kg	180000	< 0.025
1,1,2-Trichloroethane	mg/kg	12000	< 0.025
1,1-Dichloroethane	mg/kg	3000	< 0.025
1,1-Dichloroethene	mg/kg	610	< 0.025
1,1-Dichloropropene	mg/kg	NA	< 0.025
1,2,3-Trichlorobenzene	mg/kg	NA	< 0.025
1,2,3-Trichloropropane	mg/kg	18000	< 0.025
1,2,4-Trichlorobenzene	mg/kg	NA	< 0.025
1,2,4-Trimethylbenzene	mg/kg	120	120
1,2-Dibromo-3-chloropropane	mg/kg	NA	< 0.025
1,2-Dibromoethane	mg/kg	NA	< 0.025
1,2-Dichlorobenzene	mg/kg	NA	< 0.025
1,2-Dichloroethane	mg/kg	17000	< 0.025
1,2-Dichloropropane	mg/kg	31	< 0.025
1,3,5-Trimethylbenzene	mg/kg	95	38
1,3-Dichlorobenzene	mg/kg	NA	< 0.025
1,3-Dichloropropane	mg/kg	NA	< 0.025
1,4-Dichlorobenzene	mg/kg	NA	< 0.025
2,2-Dichloropropane	mg/kg	NA	< 0.025
2-Butanone	mg/kg	NA	100
2-Chlorotoluene	mg/kg	NA	< 0.025
2-Hexanone	mg/kg	NA	< 0.025
4-Chlorotoluene	mg/kg	22000	< 0.025
4-Methyl-2-pentanone	mg/kg	NA	< 0.025
Acetone	mg/kg	850000	110
Benzene	mg/kg	170	< 0.025
Bromobenzene	mg/kg	NA	< 0.025
Bromochloromethane	mg/kg	NA	< 0.025
Bromodichloromethane	mg/kg	NA	< 0.025
Bromoform	mg/kg	NA	< 0.025
Bromomethane	mg/kg	NA	< 0.025
Carbon disulfide	mg/kg	2200	< 0.025
Carbon tetrachloride	mg/kg	8.2	< 0.025

TABLE 5
EXCAVATION CONFIRMATION SOIL ANALYTICAL RESULTS - VOCs (MG/KG)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**Ohio VAP Generic Numberical Standards**	**CS-4**
Date			**9/17/2013**
Chlorobenzene	mg/kg	710	< 0.025
Chloroethane	mg/kg	18000	< 0.025
Chloroform	mg/kg	600	< 0.025
Chloromethane	mg/kg	NA	< 0.025
cis-1,2-Dichloroethene	mg/kg	29000	< 0.025
cis-1,3-Dichloropropene	mg/kg	NA	< 0.025
Dibromochloromethane	mg/kg	59000	< 0.025
Dibromomethane	mg/kg	NA	< 0.025
Dichlorodifluoromethane	mg/kg	520	< 0.025
Ethylbenzene	mg/kg	8500	1600
Hexachlorobutadiene	mg/kg	NA	< 0.025
Isopropylbenzene	mg/kg	5700	95
m,p-Xylene	mg/kg	NA	7500
Methyl tert-butyl ether	mg/kg	28000	< 0.025
Methylene chloride	mg/kg	4900	< 0.025
Naphthalene	mg/kg	NA	< 0.025
n-Butylbenzene	mg/kg	52000	< 0.025
n-Propylbenzene	mg/kg	5800	74
o-Xylene	mg/kg	NA	1500
p-Isopropyltoluene	mg/kg	220000	< 0.025
sec-Butylbenzene	mg/kg	62000	< 0.025
Styrene	mg/kg	29000	< 0.025
tert-Butylbenzene	mg/kg	46000	< 0.025
Tetrachloroethene	mg/kg	1700	< 0.025
Toluene	mg/kg	33000	43
trans-1,2-Dichloroethene	mg/kg	260	< 0.025
trans-1,3-Dichloropropene	mg/kg	NA	< 0.025
Trichloroethene	mg/kg	3200	< 0.025
Trichlorofluoromethane	mg/kg	1600	< 0.025
Vinyl chloride	mg/kg	210	< 0.025
Xylenes, Total	mg/kg	1500	9100

Notes:
<: Concentration is less than the Reporting Limit.
NA: Not available/Not listed

TABLE 6
DRUM CHARACTERIZATOIN ANALYTICAL RESULTS (MG/L)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**U.S. EPA Maximum Concentration of Contaminants for Toxicity (mg/L)**	**Ohio VAP**	**TSCA**	**DS #1**	**DS#2**
Date					**9/18/2013**	**9/18/2013**
Moisture						
Moisture	**%**	NA	NA	NA	16	12
PCBs						
Aroclor 1016	mg/kg	NA	18	50	< 2.0	< 2.0
Aroclor 1221	mg/kg	NA	18	50	< 4.0	< 4.0
Aroclor 1232	mg/kg	NA	18	50	< 2.0	< 2.0
Aroclor 1242	mg/kg	NA	18	50	< 2.0	***100***
Aroclor 1248	mg/kg	NA	18	50	***54***	< 2.0
Aroclor 1254	mg/kg	NA	18	50	< 2.0	< 2.0
Aroclor 1260	mg/kg	NA	18	50	< 2.0	< 2.0
TCLP Metals						
Mercury	mg/L	0.2	NA	NA	< 0.0005	< 0.0005
Arsenic	mg/L	5.0	610	NA	< 0.10	< 0.10
Barium	mg/L	100.0	370000	NA	1.3	1.3
Cadmium	mg/L	1.0	2300	NA	< 0.10	< 0.10
Chromium	mg/L	5.0	4400000	NA	< 0.10	< 0.10
Lead	mg/L	5.0	NA	NA	0.17	0.35
Selenium	mg/L	1.0	15000	NA	< 0.10	< 0.10
Silver	mg/L	5.0	15000	NA	< 0.10	< 0.10
TCLP SVOCs						
1,4-Dichlorobenzene	mg/L	7.5	NA	NA	< 0.040	< 0.040
2,4,5-Trichlorophenol	mg/L	400.0	NA	NA	< 0.040	< 0.040
2,4,6-Trichlorophenol	mg/L	2.0	NA	NA	< 0.040	< 0.040
2,4-Dinitrotoluene	mg/L	0.1	NA	NA	< 0.040	< 0.040
2-Methylphenol	mg/L	NA	NA	NA	< 0.040	< 0.040
3&4-Methylphenol	mg/L	NA	NA	NA	< 0.040	< 0.040
Hexachloro-1,3-butadiene	mg/L	0.5	NA	NA	< 0.040	< 0.040
Hexachlorobenzene	mg/L	0.1	NA	NA	< 0.040	< 0.040
Hexachloroethane	mg/L	3.0	NA	NA	< 0.040	< 0.040
Nitrobenzene	mg/L	2.0	NA	NA	< 0.040	< 0.040
Pentachlorophenol	mg/L	100.0	NA	NA	< 0.040	< 0.040
Pyridine	mg/L	5.0	NA	NA	< 0.040	< 0.040
TCLP VOCs						
1,1-Dichloroethene	mg/L	0.7	NA	NA	< 0.10	< 0.10
1,2-Dichloroethane	mg/L	0.5	NA	NA	< 0.10	< 0.10
1,4-Dichlorobenzene	mg/L	7.5	NA	NA	< 0.10	< 0.10
2-Butanone (MEK)	mg/L	200.0	NA	NA	< 0.10	< 0.10
Benzene	mg/L	0.5	NA	NA	< 0.10	< 0.10
Carbon tetrachloride	mg/L	0.5	NA	NA	< 0.10	< 0.10
Chlorobenzene	mg/L	100.0	NA	NA	< 0.10	< 0.10
Chloroform	mg/L	6.0	NA	NA	< 0.10	< 0.10
Tetrachloroethene	mg/L	0.7	NA	NA	< 0.10	< 0.10
Trichloroethene	mg/L	0.5	NA	NA	< 0.10	< 0.10
Vinyl chloride	mg/L	0.2	NA	NA	< 0.10	< 0.10
Other						
Ignitability	mm/sec	NA	NA	NA	ND	ND
pH	s.u.	NA	NA	NA	8.5	8.3
Reactivity (cyanide)	mg/kg	NA	NA	NA	< 0.10	< 0.10

TABLE 6
DRUM CHARACTERIZATOIN ANALYTICAL RESULTS (MG/L)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**U.S. EPA Maximum Concentration of Contaminants for Toxicity (mg/L)**	**Ohio VAP**	**TSCA**	**DS #1**	**DS#2**
Date					**9/18/2013**	**9/18/2013**
Reactivity (sulfide)	mg/kg	NA	NA	NA	< 20	< 20
Metals						
Mercury	mg/kg	NA	610	NA	<0.27	< 0.28
Arsenic	mg/kg	NA	370000	NA	5.3	< 4.9
Barium	mg/kg	NA	2300	NA	310	190
Cadmium	mg/kg	NA	4400000	NA	1.3	1.5
Chromium	mg/kg	NA	NA	NA	130	1,700
Lead	mg/kg	NA	15000	NA	140	210
Selenium	mg/kg	NA	15000	NA	7.4	4.5
Silver	mg/kg	NA	NA	NA	<2.0	< 2.0
SVOCs						
1,2,4,5-Tetrachlorobenzene	mg/kg	NA	NA	NA	< 0.330	< 0.330
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	< 0.330	< 0.330
1,2-Dichlorobenzene	mg/kg	NA	4600	NA	< 0.330	< 0.330
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	< 0.330	< 0.330
1,3-Dinitrobenzene	mg/kg	NA	110	NA	< 0.330	< 0.330
1,4-Dichlorobenzene	mg/kg	NA	17000	NA	< 0.330	< 0.330
1-Methylnaphthalene	mg/kg	NA	NA	NA	< 0.330	< 0.330
1-Naphthylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
2,3,4,6-Tetrachlorophenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2,4,5-Trichlorophenol	mg/kg	NA	110000	NA	< 0.330	< 0.330
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2,4-Dichlorophenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2,4-Dimethylphenol	mg/kg	NA	22000	NA	0.45	< 0.330
2,4-Dinitrophenol	mg/kg	NA	NA	NA	< 1.6	< 1.7
2,4-Dinitrotoluene	mg/kg	NA	2200	NA	< 0.330	< 0.330
2,6-Dichlorophenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2,6-Dinitrotoluene	mg/kg	NA	1100	NA	< 0.330	< 0.330
2-Acetylaminofluorene	mg/kg	NA	NA	NA	< 0.330	< 0.330
2-Chloronaphthalene	mg/kg	NA	NA	NA	< 0.330	< 0.330
2-Chlorophenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2-Methylnaphthalene	mg/kg	NA	3700	NA	< 0.330	< 0.330
2-Methylphenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2-Naphthylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
2-Nitroaniline	mg/kg	NA	NA	NA	< 1.6	< 1.7
2-Nitrophenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
2-Picoline	mg/kg	NA	NA	NA	< 0.330	< 0.330
3&4-Methylphenol	mg/kg	NA	NA	NA	< 0.330	< 0.330
3,3`-Dichlorobenzidine	mg/kg	NA	NA	NA	< 0.660	< 0.660
3-Methylcholanthrene	mg/kg	NA	NA	NA	< 0.330	< 0.330
3-Nitroaniline	mg/kg	NA	NA	NA	< 1.6	< 1.7
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	< 1.6	< 1.7
4-Aminobiphenyl	mg/kg	NA	NA	NA	< 0.660	< 0.660
4-Bromophenyl phenyl ether	mg/kg	NA	NA	NA	< 0.330	< 0.330
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	< 0.660	< 0.660
4-Chloroaniline	mg/kg	NA	NA	NA	< 0.660	< 0.660
4-Chlorophenyl phenyl ether	mg/kg	NA	NA	NA	< 0.330	< 0.330
4-Nitroaniline	mg/kg	NA	NA	NA	< 0.660	< 0.660

TABLE 6
DRUM CHARACTERIZATOIN ANALYTICAL RESULTS (MG/L)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**U.S. EPA Maximum Concentration of Contaminants for Toxicity (mg/L)**	**Ohio VAP**	**TSCA**	**DS #1**	**DS#2**
Date					**9/18/2013**	**9/18/2013**
4-Nitrophenol	mg/kg	NA	NA	NA	< 1.6	< 1.7
4-Nitroquinoline 1-oxide	mg/kg	NA	NA	NA	< 0.330	< 0.330
5-Nitro-o-toluidine	mg/kg	NA	NA	NA	< 0.330	< 0.330
7,12-Dimethylbenz(a)anthracene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Acenaphthene	mg/kg	NA	56000	NA	< 0.330	< 0.330
Acenaphthylene	mg/kg	NA	56000	NA	< 0.330	< 0.330
Acetophenone	mg/kg	NA	110000	NA	0.8	0.43
Aniline	mg/kg	NA	540	NA	< 0.330	< 0.330
Anthracene	mg/kg	NA	280000	NA	< 0.330	< 0.330
Azobenzene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Benzidine	mg/kg	NA	3400	NA	< 0.330	< 0.330
Benzo(a)anthracene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Benzo(a)pyrene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Benzo(g,h,i)perylene	mg/kg	NA	28000	NA	< 0.330	< 0.330
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Benzyl alcohol	mg/kg	NA	NA	NA	< 0.660	< 0.660
Bis(2-chloroethoxy)methane	mg/kg	NA	NA	NA	< 0.330	< 0.330
Bis(2-chloroethyl)ether	mg/kg	NA	NA	NA	< 0.330	< 0.330
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	< 0.330	< 0.330
Bis(2-ethylhexyl)phthalate	mg/kg	NA	22000	NA	< 0.330	0.35
Butyl benzyl phthalate	mg/kg	NA	220000	NA	< 0.330	< 0.330
Carbazole	mg/kg	NA	NA	NA	< 0.330	< 0.330
Chrysene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Dibenzo(a,h)anthracene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Dibenzofuran	mg/kg	NA	--	NA	< 0.330	< 0.330
Diethyl phthalate	mg/kg	NA	900000	NA	< 0.330	< 0.330
Dimethyl phthalate	mg/kg	NA	900000	NA	< 0.330	< 0.330
Di-n-butyl phthalate	mg/kg	NA	110000	NA	< 0.330	1.7
Di-n-octyl phthalate	mg/kg	NA	45000	NA	< 0.330	< 0.330
Dinoseb	mg/kg	NA	NA	NA	< 0.330	< 0.330
Diphenylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
Ethyl methanesulfonate	mg/kg	NA	NA	NA	< 0.330	< 0.330
Fluoranthene	mg/kg	NA	37000	NA	< 0.330	< 0.330
Fluorene	mg/kg	NA	37000	NA	< 0.330	< 0.330
Hexachlorobenzene	mg/kg	NA	900	NA	< 0.330	< 0.330
Hexachlorobutadiene	mg/kg	NA	220	NA	< 0.330	< 0.330
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Hexachloroethane	mg/kg	NA	1100	NA	< 0.330	< 0.330
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	< 0.15	< 0.15
Isophorone	mg/kg	NA	140000	NA	< 0.330	< 0.330
Isosafrole	mg/kg	NA	NA	NA	< 0.330	< 0.330
Methapyrilene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Methyl methanesulfonate	mg/kg	NA	NA	NA	< 0.330	< 0.330
Naphthalene	mg/kg	NA	NA	NA	0.64	< 0.330
Nitrobenzene	mg/kg	NA	170	NA	< 0.330	< 0.330
N-Nitrosodiethylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
N-Nitrosodimethylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330

TABLE 6
DRUM CHARACTERIZATOIN ANALYTICAL RESULTS (MG/L)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		U.S. EPA Maximum Concentration of Contaminants for Toxicity (mg/L)	Ohio VAP	TSCA	DS #1	DS#2
Date					9/18/2013	9/18/2013
N-Nitroso-di-n-butylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
N-Nitrosodi-n-propylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
N-Nitrosomethylethylamine	mg/kg	NA	NA	NA	< 0.330	< 0.330
N-Nitrosomorpholine	mg/kg	NA	NA	NA	< 0.330	< 0.330
N-Nitrosopiperidine	mg/kg	NA	NA	NA	< 0.330	< 0.330
N-Nitrosopyrrolidine	mg/kg	NA	NA	NA	< 0.330	< 0.330
o-Toluidine	mg/kg	NA	NA	NA	< 0.330	< 0.330
p-Dimethylaminoazobenzene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Pentachlorobenzene	mg/kg	NA	NA	NA	< 0.330	< 0.330
Pentachloroethane	mg/kg	NA	NA	NA	< 0.330	< 0.330
Pentachloronitrobenzene	mg/kg	NA	NA	NA	< 0.660	< 0.660
Pentachlorophenol	mg/kg	NA	17000	NA	< 1.6	< 1.7
Phenacetin	mg/kg	NA	NA	NA	< 0.660	< 0.660
Phenanthrene	mg/kg	NA	280000	NA	< 0.330	< 0.330
Phenol	mg/kg	NA	66000	NA	< 0.330	< 0.330
Pyrene	mg/kg	NA	28000	NA	< 0.330	< 0.330
Pyridine	mg/kg	NA	1100	NA	< 0.330	< 0.330
Safrole	mg/kg	NA	NA	NA	< 0.330	< 0.330
VOCs						
1,1,1,2-Tetrachloroethane	mg/kg	NA	88000	NA	< 6.2	< 6.2
1,1,1-Trichloroethane	mg/kg	NA	11000	NA	< 6.2	< 6.2
1,1,2,2-Tetrachloroethane	mg/kg	NA	180000	NA	< 6.2	< 6.2
1,1,2-Trichloroethane	mg/kg	NA	12000	NA	< 6.2	< 6.2
1,1-Dichloroethane	mg/kg	NA	3000	NA	< 6.2	< 6.2
1,1-Dichloroethene	mg/kg	NA	610	NA	< 6.2	< 6.2
1,1-Dichloropropene	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,2,3-Trichloropropane	mg/kg	NA	18000	NA	< 6.2	< 6.2
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,2,4-Trimethylbenzene	mg/kg	NA	120	NA	27	14
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,2-Dibromoethane	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,2-Dichloroethane	mg/kg	NA	17000	NA	< 6.2	< 6.2
1,2-Dichloropropane	mg/kg	NA	31	NA	< 6.2	< 6.2
1,3,5-Trimethylbenzene	mg/kg	NA	95	NA	12	< 6.2
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,3-Dichloropropane	mg/kg	NA	NA	NA	< 6.2	< 6.2
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	< 6.2	< 6.2
2,2-Dichloropropane	mg/kg	NA	NA	NA	< 6.2	< 6.2
2-Butanone	mg/kg	NA	NA	NA	< 6.2	< 6.2
2-Chlorotoluene	mg/kg	NA	NA	NA	< 6.2	< 6.2
2-Hexanone	mg/kg	NA	NA	NA	< 6.2	< 6.2
4-Chlorotoluene	mg/kg	NA	22000	NA	< 6.2	< 6.2
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	< 6.2	< 6.2
Acetone	mg/kg	NA	850000	NA	7	< 6.2
Benzene	mg/kg	NA	170	NA	< 6.2	< 6.2
Bromobenzene	mg/kg	NA	NA	NA	< 6.2	< 6.2

TABLE 6
DRUM CHARACTERIZATOIN ANALYTICAL RESULTS (MG/L)
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Sample ID		**U.S. EPA Maximum Concentration of Contaminants for Toxicity (mg/L)**	**Ohio VAP**	**TSCA**	**DS #1**	**DS#2**
Date					**9/18/2013**	**9/18/2013**
Bromochloromethane	mg/kg	NA	NA	NA	< 6.2	< 6.2
Bromodichloromethane	mg/kg	NA	NA	NA	< 6.2	< 6.2
Bromoform	mg/kg	NA	NA	NA	< 6.2	< 6.2
Bromomethane	mg/kg	NA	NA	NA	< 6.2	< 6.2
Carbon disulfide	mg/kg	NA	2200	NA	< 6.2	< 6.2
Carbon tetrachloride	mg/kg	NA	8.2	NA	< 6.2	< 6.2
Chlorobenzene	mg/kg	NA	710	NA	< 6.2	< 6.2
Chloroethane	mg/kg	NA	18000	NA	< 6.2	< 6.2
Chloroform	mg/kg	NA	600	NA	< 6.2	< 6.2
Chloromethane	mg/kg	NA	NA	NA	< 6.2	< 6.2
cis-1,2-Dichloroethene	mg/kg	NA	29000	NA	< 6.2	< 6.2
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	< 6.2	< 6.2
Dibromochloromethane	mg/kg	NA	59000	NA	< 6.2	< 6.2
Dibromomethane	mg/kg	NA	NA	NA	< 6.2	< 6.2
Dichlorodifluoromethane	mg/kg	NA	520	NA	< 6.2	< 6.2
Ethylbenzene	mg/kg	NA	8500	NA	230	150
Hexachlorobutadiene	mg/kg	NA	NA	NA	< 6.2	< 6.2
Isopropylbenzene	mg/kg	NA	5700	NA	16	< 6.2
m,p-Xylene	mg/kg	NA	NA	NA	910	420
Methyl tert-butyl ether	mg/kg	NA	28000	NA	< 6.2	< 6.2
Methylene chloride	mg/kg	NA	4900	NA	< 6.2	< 6.2
Naphthalene	mg/kg	NA	NA	NA	< 6.2	< 6.2
n-Butylbenzene	mg/kg	NA	52000	NA	< 6.2	< 6.2
n-Propylbenzene	mg/kg	NA	5800	NA	16	< 6.2
o-Xylene	mg/kg	NA	NA	NA	220	160
p-Isopropyltoluene	mg/kg	NA	220000	NA	< 6.2	< 6.2
sec-Butylbenzene	mg/kg	NA	62000	NA	< 6.2	< 6.2
Styrene	mg/kg	NA	29000	NA	< 6.2	< 6.2
tert-Butylbenzene	mg/kg	NA	46000	NA	< 6.2	< 6.2
Tetrachloroethene	mg/kg	NA	1700	NA	< 6.2	< 6.2
Toluene	mg/kg	NA	33000	NA	7.2	< 6.2
trans-1,2-Dichloroethene	mg/kg	NA	260	NA	< 6.2	< 6.2
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	< 6.2	< 6.2
Trichloroethene	mg/kg	NA	3200	NA	< 6.2	< 6.2
Trichlorofluoromethane	mg/kg	NA	1600	NA	< 6.2	< 6.2
Vinyl chloride	mg/kg	NA	210	NA	< 6.2	< 6.2
Xylenes, Total	mg/kg	NA	1500	NA	1,100	520

Notes:
<: Concentration is less than the Reporting Limit.
1.7: Bolded Concentrations exceed TSCA
1.7: Italic Concentrations exceed Ohio VAP
NA: Not available/Not listed

TABLE 7
EXCAVATION SUMMARY
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Excavation by Cell Summary

TSCA (Red Cells)[1]			
0-2:		2-4:	
19.69	feet	19.69	feet
49.21	feet	19.69	feet
2.00	feet	2.00	feet
1937.50	cubic feet	775.00	cubic feet
71.76	cubic yards	28.70	cubic yards

Non-TSCA (Red Cells):					
2-8:		4-8:		2-6:	
19.69	feet	19.69	feet	19.69	feet
9.84	feet	19.69	feet	19.69	feet
6.00	feet	6.00	feet	4.00	feet
1162.50	cubic feet	2325.00	cubic feet	1550.00	cubic feet
43.06	cubic yards	86.11	cubic yards	57.41	cubic yards

Non-TSCA (Green Cells):	
0-2:	
19.69	feet
29.53	feet
2.00	feet
1162.50	cubic feet
43.06	cubic yards

TSCA Totals:		Non-TSCA Totals:		TOTALs:	
2712.51	cubic feet	6200.01	cubic feet	8912.52	cubic feet
100.46	cubic yards	229.63	cubic yards	330.09	cubic yards
150.69	tons[2]	344.45	tons	495.14	tons
7.91	Truck Estimate	11.88	Truck Estimate	19.79	Truck Estimate

Notes:

1: 0-2 feet bgs anticipated at TSCA-regulated waste. The excavation extended from 2-4 feet bgs as TSCA-regulated where drums were removed.

2: Tonnage calculated by multiplying by 1.5 for estimation purposes.

TABLE 7
EXCAVATION SUMMARY
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Excavation Manifest Summary			
Date	**Disposal Facility**	**Manifest #**	**Tons**
9/17/2013	Ohio Soil Recycling	1	25.03
9/17/2013	Ohio Soil Recycling	2	24.91
9/17/2013	Ohio Soil Recycling	3	34.24
9/17/2013	Ohio Soil Recycling	4	26.35
9/17/2013	Ohio Soil Recycling	5	34.88
9/17/2013	Ohio Soil Recycling	6	28.63
9/17/2013	Ohio Soil Recycling	7	36.86
9/17/2013	Ohio Soil Recycling	8	32.91
9/17/2013	Wayne Disposal, Inc.	012076760 JJK	19.64
9/17/2013	Wayne Disposal, Inc.	012076763 JJK	22.1
9/17/2013	Wayne Disposal, Inc.	012076762 JJK	19.45
9/17/2013	Wayne Disposal, Inc.	012076761 JJK	23.72
9/17/2013	Wayne Disposal, Inc.	012076764 JJK	23.04
9/17/2013	Wayne Disposal, Inc.	012076765 JJK	23.41
9/20/2013	Ohio Soil Recycling	9	21.72
9/23/2013	Ohio Soil Recycling	10	24.33
10/11/2013	Wayne Disposal, Inc.	012076766 JJK	14.53
10/11/2013	Wayne Disposal, Inc.	012080202 JJK	6.56
		TSCA-Regulated Total:	**152.45**
		Non-TSCA Total:	**289.86**
		TOTAL:	**442.31**
		TSCA-Regulated Average per Truck:	**19.05625**
		Non-TSCA Average per Truck:	**28.986**

TABLE 7
EXCAVATION SUMMARY
COTA
1333 FIELDS AVENUE, COLUMBUS, OHIO

Backfill Weight Ticket Summary			
Date	**Company**	**Load #**	**Tons**
9/30/2013	Ohio Soil Recycling	1	29.15
9/30/2013	Ohio Soil Recycling	2	22.62
9/30/2013	Ohio Soil Recycling	3	21.55
9/30/2013	Ohio Soil Recycling	4	19.21
9/30/2013	Ohio Soil Recycling	5	21.48
9/30/2013	Ohio Soil Recycling	6	22.35
9/30/2013	Ohio Soil Recycling	7	21.36
9/30/2013	Ohio Soil Recycling	8	22.02
9/30/2013	Ohio Soil Recycling	9	23.79
9/30/2013	Ohio Soil Recycling	10	22.37
9/30/2013	Ohio Soil Recycling	11	22.58
9/30/2013	Ohio Soil Recycling	12	22.2
9/30/2013	Ohio Soil Recycling	13	22.15
9/30/2013	Ohio Soil Recycling	14	23.43
9/30/2013	Ohio Soil Recycling	15	22.6
9/30/2013	Ohio Soil Recycling	16	21.28
9/30/2013	Ohio Soil Recycling	17	20.53
9/30/2013	Ohio Soil Recycling	18	22.63
9/30/2013	Ohio Soil Recycling	19	21.32
9/30/2013	Ohio Soil Recycling	20	22.86
9/30/2013	Ohio Soil Recycling	21	22.46
9/30/2013	Ohio Soil Recycling	22	20.26
9/30/2013	Ohio Soil Recycling	23	21.7
		Total:	511.9

APPENDIX A
CORRESPONDENCE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

JUN 17 2013

REPLY TO THE ATTENTION OF
LU-9J

Timothy W. Smith
Director, Facilities
The Central Ohio Transit Authority (COTA)
33 North High Street
Columbus, Ohio 43215

RE: Self-Implementing Polychlorinated Biphenyl (PCB) Remediation Work Plan for the Central Ohio Transit Authority (COTA) Fields Avenue Bus Garage, located at 1333 Fields Avenue, Columbus, Ohio

Dear Mr. Smith:

The U.S. Environmental Protection Agency has reviewed your May 6, 2013 Remediation Work Plan for the cleanup of PCB waste at the above referenced property. The EPA has determined that your Work Plan meets the self-implementing cleanup and disposal requirements of 40 CFR 761.61(a) for Polychlorinated Biphenyl (PCB) remediation waste. The Work Plan is approved subject to the following conditions:

1. As stated in 40 CFR 761.61(a), you must conduct the cleanup in accordance with all applicable requirements of 40 CFR 761.61(a)(1) through (9). A copy of these requirements is enclosed for your convenience. To assist you in completing the cleanup successfully, an "X" in the margin identifies specific conditions to which this approval is subject. Specific comments are noted in bold italics following the regulatory citation.

2. You must prepare a Cleanup Completion Report that documents how you conducted the cleanup in accordance with the applicable regulatory requirements. This report is due within six months after the date of this letter.

3. If your cleanup activity includes the use of a fence or a cap that must be maintained in perpetuity, or if any portion of the site is cleaned up to levels appropriate for low occupancy use, then you must notify EPA thirty days prior to any change in ownership of the property. The notice must include the name, address and telephone number of the new owner's contact person. You must also submit a letter, signed by the potential purchaser, stating whether it intends to maintain the fence or cap, and the low occupancy use; or whether it intends to remove and dispose of additional PCB remediation wastes off-site instead.

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (100% Post-Consumer)

Please note that this approval applies only to the PCB-remediation waste and does not relieve you from your duty to comply with all other applicable federal, state, and local requirements. In addition, if you wish to make any changes to your Work Plan (including changes in the project schedule), then you must submit your proposal to Todd Gmitro, of my staff, in writing no less than 14 calendar days prior to the proposed implementation of the change. If you have any questions, please contact him at Gmitro.Todd@epa.gov or (312) 886-5909.

Sincerely,

Jose G. Cisneros, Chief
Remediation and Reuse Branch

Enclosure

cc: Rajib Sinha, P.E., Shaw Environmental & Infrastructure
Raymond R. Moreno, Ohio EPA

ENCLOSURE

Central Ohio Transit Authority (COTA) Fields Avenue Bus Garage
1333 Fields Avenue, Columbus, Ohio

Regulatory Requirements of 40 CFR 761.61(a)

Please note that an ["X"] in the margin indicates that the notification and certification of your intention to conduct a self-implementing cleanup does not adequately explain how you intend to comply with the regulatory requirement. Refer to comment.

[ ] (1) ***Applicability***

(i) The self-implementing procedures may not be used to clean up:
(A) Surface or ground waters.
(B) Sediments in marine and freshwater ecosystems.
(C) Sewers or sewage treatment systems.
(D) Any private or public drinking water sources or distribution systems.
(E) Grazing lands.
(F) Vegetable gardens.

[ ] (ii) The self-implementing cleanup provisions shall not be binding upon cleanups conducted under other authorities, including but not limited to, actions conducted under section 104 or section 106 of CERCLA, or section 3004(u) and (v) or section 3008(h) of RCRA.

[X] (2) ***Site characterization***. Any person conducting self-implementing cleanup of PCB remediation waste must characterize the site adequately to be able to provide the information required by paragraph (a)(3) of this section. Subpart N of this part provides a method for collecting new site characterization data or for assessing the sufficiency of existing site characterization data. ***Comment: Since additional site characterization sampling is planned for under Section 3.4, this site characterization data must be included in the Cleanup Completion Report.***

[ ] (3) ***Notification and certification***.

[ ] (i) At least 30 days prior to the date that the cleanup of a site begins, the person in charge of the cleanup or the owner of the property where the PCB remediation waste is located shall notify, in writing, the EPA Regional Administrator, the Director of the State or Tribal environmental protection agency, and the Director of the county or local environmental protection agency where the cleanup will be conducted. The notice shall include:

[ ] (A) The nature of the contamination, including kinds of materials contaminated.

[ ] (B) A summary of the procedures used to sample contaminated and adjacent areas and a table or cleanup site map showing PCB concentrations measured in all pre-cleanup characterization samples. The summary must include sample collection and analysis dates. The EPA Regional Administrator may require more detailed information including, but not limited to, additional characterization sampling or all sample identification numbers from all previous characterization activities at the cleanup site.

[ ] (C) The location and extent of the identified contaminated area, including topographic maps with sample collection sites cross referenced to the sample identification numbers in the data summary from paragraph (a)(3)(i)(B) of this section.

[ ] (D) A cleanup plan for the site, including schedule, disposal technology, and approach. This plan should contain options and contingencies to be used if unanticipated higher concentrations or wider distributions of PCB remediation waste are found or other obstacles force changes in the cleanup approach.

[ ] (E) A written certification, signed by the owner of the property where the cleanup site is located and the party conducting the cleanup, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location designated in the certificate, and are available for EPA inspection. Persons using alternate methods for chemical extraction and chemical analysis for site characterization must include in the certificate a statement that such a method will be used and that a comparison study which meets or exceeds the requirements of subpart Q of this part, and for which records are on file, has been completed prior to verification sampling

[ ] (ii) Within 30 calendar days of receiving the notification, the EPA Regional Administrator will respond in writing approving of the self-implementing cleanup, disapproving of the self-implementing cleanup, or requiring additional information. If the EPA Regional Administrator does not respond within 30 calendar days of receiving the notice, the person submitting the notification may assume that it is complete and acceptable and proceed with the cleanup according to the information the person provided to the EPA Regional Administrator. Once cleanup is underway, the person conducting the cleanup must provide any proposed changes from the notification to the EPA Regional Administrator in writing no less than 14 calendar days prior to the proposed implementation of the change. The EPA Regional Administrator will determine in his or her discretion whether to accept the change, and will respond to the change notification verbally within 7 calendar days and in writing within 14 calendar days of receiving it. If the EPA Regional Administrator does not respond verbally within 7 calendar days and in writing within 14 calendar days of receiving the change notice, the person who submitted it may deem it

complete and acceptable and proceed with the cleanup according to the information in the change notice provided to the EPA Regional Administrator.

[ ] (iii) Any person conducting a cleanup activity may obtain a waiver of the 30-day notification requirement, if they receive a separate waiver, in writing, from each of the agencies they are required to notify under this section. The person must retain the original written waiver as required in paragraph (a)(9) of this section.

[ ] (4) ***Cleanup levels***. For purposes of cleaning, decontaminating, or removing PCB remediation waste under this section, there are four general waste categories: bulk PCB remediation waste, non-porous surfaces, porous surfaces, and liquids. Cleanup levels are based on the kind of material and the potential exposure to PCBs left after cleanup is completed.

[ ] (i) *Bulk PCB remediation waste*. Bulk PCB remediation waste includes, but is not limited to, the following non-liquid PCB remediation waste: soil, sediments, dredged materials, muds, PCB sewage sludge, and industrial sludge.

[X] (A) *High occupancy areas*. The cleanup level for bulk PCB remediation waste in high occupancy areas is ≤1 ppm without further conditions. High occupancy areas where bulk PCB remediation waste remains at concentrations >1 ppm and ≤10 ppm shall be covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section. ***Comment: Per a June 6, 2013 phone conversation between Todd Gmitro of EPA and Rajib Sinha of Shaw Environmental, the initial cleanup goal will be 1ppm for high occupancy with no further restrictions/conditions on use of property. If this goal changes the EPA should be notified within 14 days.***

[ ] (B) *Low occupancy areas*.

[ ] (1) The cleanup level for bulk PCB remediation waste in low occupancy areas is ≤25 ppm unless otherwise specified in this paragraph.

[ ] (2) Bulk PCB remediation wastes may remain at a cleanup site at concentrations >25 ppm and ≤50 ppm if the site is secured by a fence and marked with a sign including the M_L mark.

[ ] (3) Bulk PCB remediation wastes may remain at a cleanup site at concentrations >25 ppm and ≤100 ppm if the site is covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.

[ ] (ii) *Non-porous surfaces*. In high occupancy areas, the surface PCB cleanup standard is ≤ 10 μg/100 cm^2 of surface area. In low occupancy areas, the surface cleanup standard is <100 μg/100 cm^2 of surface area. Select sampling locations in accordance

with subpart P of this part or a sampling plan approved under paragraph (c) of this section.

[ ] (iii) *Porous surfaces.* In both high and low occupancy areas, any person disposing of porous surfaces must do so based on the levels in paragraph (a)(4)(i) of this section. Porous surfaces may be cleaned up for use in accordance with §761.79(b)(4) or §761.30(p).

[ ] (iv) *Liquids.* In both high and low occupancy areas, cleanup levels are the concentrations specified in §761.79(b)(1) and (b)(2).

[ ] (v) *Change in the land use for a cleanup site.* Where there is an actual or proposed change in use of an area cleaned up to the levels of a low occupancy area, and the exposure of people or animal life in or at that area could reasonably be expected to increase, resulting in a change in status from a low occupancy area to a high occupancy area, the owner of the area shall clean up the area in accordance with the high occupancy area cleanup levels in paragraphs (a)(4)(i) through (a)(4)(iv) of this section.

[ ] (vi) The EPA Regional Administrator, as part of his or her response to a notification submitted in accordance with §761.61(a)(3) of this part, may require cleanup of the site, or portions of it, to more stringent cleanup levels than are otherwise required in this section, based on the proximity to areas such as residential dwellings, hospitals, schools, nursing homes, playgrounds, parks, day care centers, endangered species habitats, estuaries, wetlands, national parks, national wildlife refuges, commercial fisheries, and sport fisheries.

[ ] (5) ***Site cleanup.*** In addition to the options set out in this paragraph, PCB disposal technologies approved under §§761.60 and 761.70 are acceptable for on-site self-implementing PCB remediation waste disposal within the confines of the operating conditions of the respective approvals.

[ ] (i) *Bulk PCB remediation waste.* Any person cleaning up bulk PCB remediation waste shall do so to the levels in paragraph (a)(4)(i) of this section.

[ ] (A) Any person cleaning up bulk PCB remediation waste on-site using a soil washing process may do so without EPA approval, subject to all of the following:

(1) A non-chlorinated solvent is used.
(2) The process occurs at ambient temperature.
(3) The process is not exothermic.
(4) The process uses no external heat.
(5) The process has secondary containment to prevent any solvent from being released to the underlying or surrounding soils or surface waters.
(6) Solvent disposal, recovery, and/or reuse is in accordance with relevant provisions of approvals issued according to paragraphs (b)(1) or (c) of this section or applicable paragraphs of §761.79.

[ ] (B) Bulk PCB remediation waste may be sent off-site for decontamination or disposal in accordance with this paragraph, provided the waste is either dewatered on-site or transported off-site in containers meeting the requirements of the DOT Hazardous Materials Regulations (HMR) at 49 CFR parts 171 through 180.

[ ] (1) Removed water shall be disposed of according to paragraph (b)(1) of this section.

[ ] (2) Any person disposing off-site of dewatered bulk PCB remediation waste shall do so as follows:

(i) Unless sampled and analyzed for disposal according to the procedures set out in §§761.283, 761.286, and 761.292, the bulk PCB remediation waste shall be assumed to contain ≥50 ppm PCBs.

(ii) Bulk PCB remediation wastes with a PCB concentration of <50 ppm shall be disposed of in accordance with paragraph (a)(5)(v)(A) of this section.

(iii) Bulk PCB remediation wastes with a PCB concentration ≥50 ppm shall be disposed of in a hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA, or a PCB disposal facility approved under this part.

(iv) The generator must provide written notice, including the quantity to be shipped and highest concentration of PCBs (using extraction EPA Method 3500B/3540C or Method 3500B/3550B followed by chemical analysis using EPA Method 8082 in SW-846 or methods validated under subpart Q of this part) at least 15 days before the first shipment of bulk PCB remediation waste from each cleanup site by the generator, to each off-site facility where the waste is destined for an area not subject to a TSCA PCB Disposal Approval.

[ ] (3) Any person may decontaminate bulk PCB remediation waste in accordance with §761.79 and return the waste to the cleanup site for disposal as long as the cleanup standards of paragraph (a)(4) of this section are met.

[ ] (ii) Non-porous surfaces. PCB remediation waste non-porous surfaces shall be cleaned on-site or off-site for disposal on-site, disposal off-site, or use, as follows:

[ ] (A) For on-site disposal, non-porous surfaces shall be cleaned on-site or off-site to the levels in paragraph (a)(4)(ii) of this section using:

(1) Procedures approved under §761.79.

(2) Technologies approved under §761.60(e).

(3) Procedures or technologies approved under paragraph (c) of this section.

[ ] (B) For off-site disposal, non-porous surfaces:

(1) Having surface concentrations <100 μg/100 cm^2 shall be disposed of in accordance with paragraph (a)(5)(i)(B)(2)(ii) of this section. Metal surfaces may be thermally decontaminated in accordance with §761.79(c)(6)(i).

(2) Having surface concentrations ≥100 μg/100 cm^2 shall be disposed of in accordance with paragraph (a)(5)(i)(B)(2)(iii) of this section. Metal surfaces may be thermally decontaminated in accordance with §761.79(c](6)(ii).

[ ] (C) For use, non-porous surfaces shall be decontaminated on-site or off-site to the standards specified in §761.79(b)(3) or in accordance with §761.79(c).

[ ] (iii) *Porous surfaces.* Porous surfaces shall be disposed on-site or off-site as bulk PCB remediation waste according to paragraph (a)(5)(i) of this section or decontaminated for use according to §761.79(b)(4), as applicable.

[ ] (iv) *Liquids.* Any person disposing of liquid PCB remediation waste shall either:
(A) Decontaminate the waste to the levels specified in §761.79(b)(1) or (b)(2).
(B) Dispose of the waste in accordance with paragraph (b) of this section or an approval issued under paragraph (c) of this section.

[ ] (v) *Cleanup wastes.* Any person generating the following wastes during and from the cleanup of PCB remediation waste shall dispose of or reuse them using one of the following methods:

[ ] (A) Non-liquid cleaning materials and personal protective equipment waste at any concentration, including non-porous surfaces and other non-liquid materials such as rags, gloves, booties, other disposable personal protective equipment, and similar materials resulting from cleanup activities shall be either decontaminated in accordance with §761.79(b) or (c), or disposed of in one of the following facilities, without regard to the requirements of subparts J and K of this part:
(1) A facility permitted, licensed, or registered by a State to manage municipal solid waste subject to part 258 of this chapter.
(2) A facility permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste subject to §§257.5 through 257.30 of this chapter, as applicable.
(3) A hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA.
(4) A PCB disposal facility approved under this part.

[ ] (B) Cleaning solvents, abrasives, and equipment may be reused after decontamination in accordance with §761.79.

[ ] (6) ***Cleanup verification***

[X] (i) *Sampling and analysis.* Any person collecting and analyzing samples to verify the cleanup and on-site disposal of bulk PCB remediation wastes and porous surfaces must do so in accordance with subpart O of this part. Any person collecting and analyzing samples from non-porous surfaces must do so in accordance with subpart P of this part. Any person collecting and analyzing samples from liquids must do so in accordance with §761.269. Any person conducting interim sampling during PCB

remediation waste cleanup to determine when to sample to verify that cleanup is complete, may use PCB field screening tests. ***Comment: In the Cleanup Completion Report, please include a map detailing the verification sampling that was done indicating the number and location of sample points, compositing technique, side-wall sample points, and sample grid spacing.***

[ ] (ii) *Verification.*

(A) Where sample analysis results in a measurement of PCBs less than or equal to the levels specified in paragraph (a)(4) of this section, self-implementing cleanup is complete.

(B) Where sample analysis results in a measurement of PCBs greater than the levels specified in paragraph (a)(4) of this section, self-implementing cleanup of the sampled PCB remediation waste is not complete. The owner or operator of the site must either dispose of the sampled PCB remediation waste, or reclean the waste represented by the sample and reinitiate sampling and analysis in accordance with paragraph (a)(6)(i) of this section.

[ ] (7) ***Cap requirements.*** A cap means, when referring to on-site cleanup and disposal of PCB remediation waste, a uniform placement of concrete, asphalt, or similar material of minimum thickness spread over the area where remediation waste was removed or left in place in order to prevent or minimize human exposure, infiltration of water, and erosion. Any person designing and constructing a cap must do so in accordance with §264.310(a) of this chapter, and ensure that it complies with the permeability, sieve, liquid limit, and plasticity index parameters in §761.75(b)(1)(ii) through (b)(1)(v). A cap of compacted soil shall have a minimum thickness of 25 cm (10 inches). A concrete or asphalt cap shall have a minimum thickness of 15 cm (6 inches). A cap must be of sufficient strength to maintain its effectiveness and integrity during the use of the cap surface which is exposed to the environment. A cap shall not be contaminated at a level ≥1 ppm PCB per AroclorTM(or equivalent) or per congener. Repairs shall begin within 72 hours of discovery for any breaches which would impair the integrity of the cap.

[ ] (8) ***Deed restrictions for caps, fences and low occupancy areas***. When a cleanup activity conducted under this section includes the use of a fence or a cap, the owner of the site must maintain the fence or cap, in perpetuity. In addition, whenever a cap, or the procedures and requirements for a low occupancy area, is used, the owner of the site must meet the following conditions:

[ ] (i) Within 60 days of completion of a cleanup activity under this section, the owner of the property shall:

[ ] (A) Record, in accordance with State law, a notation on the deed to the property, or on some other instrument which is normally examined during a title search, that will in perpetuity notify any potential purchaser of the property:

(1) That the land has been used for PCB remediation waste disposal and is restricted to use as a low occupancy area as defined in §761.3.

(2) Of the existence of the fence or cap and the requirement to maintain the fence or cap.
(3) The applicable cleanup levels left at the site, inside the fence, and/or under the cap.

[ ] (B) Submit a certification, signed by the owner, that he/she has recorded the notation specified in paragraph (a)(8)(i)(A) of this section to the EPA Regional Administrator.

[ ] (ii) The owner of a site being cleaned up under this section may remove a fence or cap after conducting additional cleanup activities and achieving cleanup levels, specified in paragraph (a)(4) of this section, which do not require a cap or fence. The owner may remove the notice on the deed no earlier than 30 days after achieving the cleanup levels specified in this section which do not require a fence or cap.

[ ] (9) ***Recordkeeping***. For paragraphs (a)(3), (a)(4), and (a)(5) of this section, recordkeeping is required in accordance with §761.125(c)(5).

APPENDIX B
SOIL BORING LOGS

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-10**
TOTAL DEPTH: **8.0'**
ELEVATION: **801.189**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99210428
Longitude: -82.99421701

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	6.8	fill		FILL: (fill) Black silt and gravel.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		75.6	fill			
-4		25.1	fill--->ml			
-6	100%	4.8	ml--->cl		SILT: (ml) Black changing to gray moist silt.	
-8					CLAY: (cl) Brown stiff clay.	

SAMPLES SUBMITTED:

SOIL: B-10 (0-2), (2-4), (4-6), (6-8), Duplicate 1 from (0-2) [total PCBs]; B-10 Composite [TCLP RCRA Metals].
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-11**
TOTAL DEPTH: **8.0'**
ELEVATION: **803.566**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99213378
Longitude: -82.99421463

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black and brown sand and gravel with wood and glass fragments. Odors noted from 2-4' bgs.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		--	fill			
-4	100%	--	fill---->cl		CLAY: (cl) Black to grey clay, moist, stiff.	
-6		--	cl		@6' - changes to brown and grey mottled clay.	
-8						

SAMPLES SUBMITTED:

SOIL: B-11 (0-2), (2-4), (4-6), (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-12**
TOTAL DEPTH: **8.0'**
ELEVATION: **803.682**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99210743
Longitude: -82.99417735

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0					TOPSOIL: Topsoil	
	100%	172	fill		FILL: (fill) Black fine sand and gravel. Decreasing gravel content with depth.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2						
		121	fill			
-4						
		32.3	fill			
	100%				FILL: (fill) Grey clay with silt, gravel, and slag. Moist and medium stiff.	
-6					@6' - metal fragments.	
		10.9	fill-->cl			
					CLAY: (cl) Brown clay, stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-12 (0-2), (2-4), (4-6), (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-13**
TOTAL DEPTH: **8.0'**
ELEVATION: **797.252**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99206993
Longitude: -82.99421607

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	38.2	fill		FILL: (fill) Grey and black gravel and silt. Increasing clay content with depth.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		46.3	fill			
-4		4.4	fill			
-6	100%	0.6	cl		CLAY: (cl) Dark brown clay, stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-13 (0-2), (2-4), (4-6), (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-14**
TOTAL DEPTH: **8.0'**
ELEVATION: **800.431**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99210433
Longitude: -82.99425465

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	33.6	fill		FILL: (fill) Black silt and gravel with glass, slag, and brick fragments.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		14.1	fill			
-4		7.2	fill			
-6	100%	1.4	cl		CLAY: (cl) Grey clay with gravel, very stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-14 (0-2), (2-4), (4-6), (6-8), and Duplicate 2 taken from (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-15**
TOTAL DEPTH: **8.0'**
ELEVATION: **801.628**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99210542
Longitude: -82.99431211

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0					TOPSOIL: Topsoil	
	100%	0.5	fill		FILL: (fill) Brown and grey clay with gravel, soft to stiff with depth.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		50.6	fill			
-4		3.3	fill			
-6	100%	1.8	fill		FILL: (fill) Brown fill clay to black silt and gravel with slag.	
-8						

SAMPLES SUBMITTED:

SOIL: B-15 (0-2), (2-4), (4-6), (6-8) and MS/MSD taken from (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-16**
TOTAL DEPTH: **8.0'**
ELEVATION: **801.431**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99215871
Longitude: -82.99421966

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0					TOPSOIL: Topsoil	
		13.1	fill		FILL: (fill) Light brown clay with medium to fine-grained sand and fravel, soft.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2	100%					
		22.3	fill			
-4						
		17.9	fill			
-6	100%				FILL: (fill) Black clay with slag, stiff.	
		4.6	fill			
-8						

SAMPLES SUBMITTED:

SOIL: B-16 (0-2), (2-4), (4-6), (6-8), and Duplicate 4 from (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-17**
TOTAL DEPTH: **8.0'**
ELEVATION: **803.904**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99210905
Longitude: -82.99414547

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	4.9	fill		FILL: (fill) Brown and black clay with gravel and slag, loose. Moisture at 4'.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		7.6	fill			
-4		22.3	fill			
-6	100%	14.1	fill		FILL: (fill) Brown clay with plastic fragments, stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-17 (0-2), (2-4), (4-6), (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-18**
TOTAL DEPTH: **8.0'**
ELEVATION: **798.845**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/17/2013**

NOTES:

COORDINATES:
Latitude: 39.99204451
Longitude: -82.99420992

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	52.7	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		3.7	fill			
-4		17.9	fill		@4' to 6' - Potential petroleum-like odors noted	
-6	100%	23.2	cl		CLAY: (cll) Gray to brown clay, stiff and moist.	
-8						

SAMPLES SUBMITTED:

SOIL: B-18 (0-2), (2-4), (4-6), (6-8), and Duplicate 3 from (0-2) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-19**
TOTAL DEPTH: **8.0'**
ELEVATION: **799.42**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013 & 7/16/2013**

NOTES: Hand auguered and sampled on 6/27/2013. Samples taken from 4 to 8' bgs with DPT on 7/16/2013.

COORDINATES:
Latitude: 39.99201902
Longitude: -82.99420258

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Fine to medium black sand. *Lithology assumed to be similar from 0-4.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		--	fill			
-4		62.1	fill			
-6	100%	3.2	cl		CLAY: (cll) Dark brown clay.	
-8						

SAMPLES SUBMITTED:

SOIL: B-19 (0-2), (2-4), and Duplicate 5 from (0-2) on 6/28/2013 & (2-6), (4-6) on 7/16/2013 for total PCBs.

GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-20**
TOTAL DEPTH: **4.0'**
ELEVATION: **799.42**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99201902
Longitude: -82.99420258

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-20 (0-2), (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-21**
TOTAL DEPTH: **4.0'**
ELEVATION: **803.46**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99205201
Longitude: -82.99424475

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-21 (0-2), (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-22**
TOTAL DEPTH: **4.0'**
ELEVATION: **799.856**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99204829
Longitude: -82.99414594

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-22 (0-2), (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-23**
TOTAL DEPTH: **4.0'**
ELEVATION: **798.747**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99205511
Longitude: -82.99410498

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-23 (0-2), (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-24**
TOTAL DEPTH: **4.0'**
ELEVATION: **800.288**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99208249
Longitude: -82.99411553

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-24 (0-2), (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-25**
TOTAL DEPTH: **4.0'**
ELEVATION: **800.429**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99211318
Longitude: -82.99412042

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-25 (0-2), (2-4), and Duplicate 6 taken from (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-26**
TOTAL DEPTH: **4.0'**
ELEVATION: **804.499**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO:
DRILLER:
METHOD OF DRILLING: **HA**
SAMPLING METHOD **Continuous**
DATE DRILLED: **6/28/2013**

NOTES: *Due to time constraints, samples were not screened or logged. Material was similar to other borings.

COORDINATES:
Latitude: 39.99216491
Longitude: -82.99414387

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	--	fill		FILL: (fill) Black silt, sand, and gravel. Increasing clay content with depth.	Hand augered to 4' bgs.
-2		--	fill			
-4						

SAMPLES SUBMITTED:

SOIL: B-26 (0-2), (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-27**
TOTAL DEPTH: **8.0'**
ELEVATION: **795.131**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.9920024
Longitude: -82.99427313

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	2.7	fill		FILL: (fill) Black, fine to medium-grain sand and gravel.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		13.5	fill			
-4		10.1	fill		@4' - Glass and brick fragments present.	
-6	100%	9.3	cl		CLAY: (cl) Dark brown clay, stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-27 (0-2), (2-4), (4-6). (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-28**
TOTAL DEPTH: **8.0'**
ELEVATION: **798.645**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99193389
Longitude: -82.9942852

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	1.1	fill		FILL: (fill) Black to dark brown silty clay with sand.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		3.6	fill			
-4		5.5	fill		@4' to 6' - Glass fragments present.	
-6	100%	12.1	cl		CLAY: (cl) Brown clay, stiff and dry.	
-8						

SAMPLES SUBMITTED:

SOIL: B-28 (0-2), (2-4), (4-6). (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-29**
TOTAL DEPTH: **8.0'**
ELEVATION: **797.033**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99197009
Longitude: -82.99424025

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0					FILL: (fill) Red and brown sand with clay.	Hand augered to 5' bgs. DPT used for continuous sampling.
		0.7	fill			
-2	100%				@2' to 4' - Medium sand and clay with brick fragments	
		0.6	fill			
-4					@4' to 6' - Fine black sand and gravel.	
		1.0	fill			
-6	100%				CLAY: (cl) Brown clay, stiff.	
		0.1	cl			
-8						

SAMPLES SUBMITTED:

SOIL: B-29 (0-2), (2-4), (4-6). (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-30**
TOTAL DEPTH: **8.0'**
ELEVATION: **798.28**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99200016
Longitude: -82.99419935

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0					TOPSOIL: Topsoil	
		3.1	fill		FILL: (fill) Black sand and gravel.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2	100%					
		4.3	fill			
-4					@4' to 6' - Brick and slag fragments present.	
		0.8	fill			
-6	100%				CLAY: (cl) Gray to brown clay, stiff.	
		0.8	cl			
-8						

SAMPLES SUBMITTED:

SOIL: B-30 (0-2), (2-4), (4-6). (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-31**
TOTAL DEPTH: **8.0'**
ELEVATION: **793.55**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99196691
Longitude: -82.99419968

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	1.4	fill		FILL: (fill) Black and brown sand with gravel.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		16.4	fill			
-4	100%	18.1	fill		CLAY: (cl) Brown and gray changing to all gray clay with gravel, stiff. Decreasing gravel content with depth.	
-6		13.4	cl			
-8						

SAMPLES SUBMITTED:

SOIL: B-31 (0-2), (2-4), (4-6). (6-8) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-32**
TOTAL DEPTH: **8.0'**
ELEVATION: **794.478**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99193982
Longitude: -82.99419347

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	205	fill		FILL: (fill) Black and brown clay with gravel and black sand.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		80.3	fill			
-4		--	fill			
-6	100%	--	cl		CLAY: (cl) Black to gray to brown clay, very stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-32 (0-2), (2-4), (4-6). (6-8), and Duplicate 1 taken from (2-4) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-33**
TOTAL DEPTH: **8.0'**
ELEVATION: **797.553**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99199013
Longitude: -82.99416782

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	6.0	fill		FILL: (fill) Black and gray sand.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		65.9	cl		CLAY: (cl) Brown and gray clay, dry.	
-4		16.6	cl			
-6	100%	1.5	cl			
-8						

SAMPLES SUBMITTED:

SOIL: B-33 (0-2), (2-4), (4-6). (6-8), and Duplicate 2 taken from (0-2) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-34**
TOTAL DEPTH: **8.0'**
ELEVATION: **797.514**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99202787
Longitude: -82.99413266

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	31.2	fill		FILL: (fill) Brown clay and sand, moist.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		70.3	fill			
-4	100%	5.4	cl		CLAY: (cl) Brown clay, dry and stiff.	
-6		0.3	cl			
-8						

SAMPLES SUBMITTED:

SOIL: B-34 (0-2), (2-4), (4-6). (6-8), and Duplicate 4 taken from (4-6) for total PCBs.
GROUNDWATER: NA

VISUAL CLASSIFICATION OF SOILS

BOREHOLE NO: **B-35**
TOTAL DEPTH: **8.0'**
ELEVATION: **795.346**

PROJECT INFORMATION

PROJECT: **COTA**
SITE LOCATION: **Columbus, OH**
JOB NUMBER: **144938.151**
LOGGED BY: **Tyler Carter**
PROJECT MANAGER: **Kelly Birkenhauer**

DRILLING INFORMATION

DRILLING CO: **Envirocore**
DRILLER: **Adam Whitt**
METHOD OF DRILLING: **HA/DPT**
SAMPLING METHOD **Continuous**
DATE DRILLED: **7/16/2013**

NOTES:

COORDINATES:
Latitude: 39.99197188
Longitude: -82.99412542

DEPTH (FT)	RECOVERY	PID (PPM)	USCS	LITHOLOGY	DESCRIPTION	NOTES
0	100%	95.2	topsoil		TOPSOIL: Brown topsoil.	Hand augered to 5' bgs. DPT used for continuous sampling.
-2		29.3	fill		FILL: (fill) Brown and black sand with gravel.	
-4		0.8	fill			
-6	100%	5.3	cl		CLAY: (cl) Brown changing to gray clay, stiff.	
-8						

SAMPLES SUBMITTED:

SOIL: B-35 (0-2), (2-4), (4-6). (6-8), and Duplicate 3 taken from (0-2) for total PCBs.
GROUNDWATER: NA

APPENDIX C
ANALYTIAL REPORTS AND
CHAIN OF CUSTODY DOCUMENTATION

25-Jun-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA TO 151,1333 Fields Ave Work Order: **1306496**

Dear Kelly,

ALS Environmental received 22 samples on 18-Jun-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Chris Gibson

Shawn Smythe
Project Manager

ALS Environmental

Date: 25-Jun-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: **1306496**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306496-01	B13-0-2	Soil		6/17/2013 09:30	6/18/2013	☐
1306496-02	B13-2-4	Soil		6/17/2013 09:40	6/18/2013	☐
1306496-03	B13-4-6	Soil		6/17/2013 09:50	6/18/2013	☐
1306496-04	B13-6-8	Soil		6/17/2013 09:55	6/18/2013	☐
1306496-05	B10-0-2	Soil		6/17/2013 10:00	6/18/2013	☐
1306496-06	B10-2-4	Soil		6/17/2013 10:05	6/18/2013	☐
1306496-07	B10-4-6	Soil		6/17/2013 10:15	6/18/2013	☐
1306496-08	B10-6-8	Soil		6/17/2013 10:20	6/18/2013	☐
1306496-09	B12-0-2	Soil		6/17/2013 10:28	6/18/2013	☐
1306496-10	B12-2-4	Soil		6/17/2013 10:33	6/18/2013	☐
1306496-11	B12-4-6	Soil		6/17/2013 10:45	6/18/2013	☐
1306496-12	B12-6-8	Soil		6/17/2013 10:50	6/18/2013	☐
1306496-13	B11-0-2	Soil		6/17/2013 11:05	6/18/2013	☐
1306496-14	B11-2-4	Soil		6/17/2013 11:10	6/18/2013	☐
1306496-15	B11-4-6	Soil		6/17/2013 11:15	6/18/2013	☐
1306496-16	B11-6-8	Soil		6/17/2013 11:20	6/18/2013	☐
1306496-17	B14-2-2	Soil		6/17/2013 11:25	6/18/2013	☐
1306496-18	B14-2-4	Soil		6/17/2013 11:30	6/18/2013	☐
1306496-19	B14-4-6	Soil		6/17/2013 11:35	6/18/2013	☐
1306496-20	B14-6-8	Soil		6/17/2013 11:40	6/18/2013	☐
1306496-21	DUP-1	Soil		6/17/2013	6/18/2013	☐
1306496-22	DUP-2	Soil		6/17/2013	6/18/2013	☐

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B13-0-2
Lab ID: 1306496-01
Collection Date: 6/17/2013 09:30 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		2.3	mg/Kg-dry	20	6/22/2013
Aroclor 1221	ND		4.6	mg/Kg-dry	20	6/22/2013
Aroclor 1232	ND		2.3	mg/Kg-dry	20	6/22/2013
Aroclor 1242	ND		2.3	mg/Kg-dry	20	6/22/2013
Aroclor 1248	**29**		**2.3**	**mg/Kg-dry**	20	6/22/2013
Aroclor 1254	ND		2.3	mg/Kg-dry	20	6/22/2013
Aroclor 1260	ND		2.3	mg/Kg-dry	20	6/22/2013
Surr: Decachlorobiphenyl	*90.2*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*83.2*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**12**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B13-2-4
Lab ID: 1306496-02
Collection Date: 6/17/2013 09:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	**2.0**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Surr: Decachlorobiphenyl	*80.0*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*79.8*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B13-4-6
Lab ID: 1306496-03
Collection Date: 6/17/2013 09:50 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.14	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.28	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.14	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.14	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.14	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.14	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.14	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*81.6*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*76.8*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**28**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B13-6-8
Lab ID: 1306496-04
Collection Date: 6/17/2013 09:55 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*88.8*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*82.6*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**22**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B10-0-2
Lab ID: 1306496-05
Collection Date: 6/17/2013 10:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		5.7	mg/Kg-dry	50	6/22/2013
Aroclor 1221	ND		11	mg/Kg-dry	50	6/22/2013
Aroclor 1232	ND		5.7	mg/Kg-dry	50	6/22/2013
Aroclor 1242	ND		5.7	mg/Kg-dry	50	6/22/2013
Aroclor 1248	**30**		**5.7**	**mg/Kg-dry**	50	6/22/2013
Aroclor 1254	ND		5.7	mg/Kg-dry	50	6/22/2013
Aroclor 1260	ND		5.7	mg/Kg-dry	50	6/22/2013
Surr: Decachlorobiphenyl	*89.0*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*78.0*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B10-2-4
Lab ID: 1306496-06
Collection Date: 6/17/2013 10:05 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.21	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.10	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.10	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**5.0**		**0.10**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.10	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.10	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*85.4*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*76.0*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**5.1**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B10-4-6
Lab ID: 1306496-07
Collection Date: 6/17/2013 10:15 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**2.3**		**0.13**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*88.6*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*79.4*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**22**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B10-6-8
Lab ID: 1306496-08
Collection Date: 6/17/2013 10:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/20/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/20/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/20/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/20/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/20/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/20/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/20/2013
Surr: Decachlorobiphenyl	*97.0*		*22-156*	*%REC*	1	6/20/2013
Surr: Tetrachloro-m-xylene	*88.2*		*34-145*	*%REC*	1	6/20/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**19**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B12-0-2
Lab ID: 1306496-09
Collection Date: 6/17/2013 10:28 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.52**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*71.0*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*69.6*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**8.4**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B12-2-4
Lab ID: 1306496-10
Collection Date: 6/17/2013 10:33 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.17**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*92.2*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*77.4*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**7.9**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B12-4-6
Lab ID: 1306496-11
Collection Date: 6/17/2013 10:45 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*97.0*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*85.2*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**24**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B12-6-8
Lab ID: 1306496-12
Collection Date: 6/17/2013 10:50 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*94.6*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*86.4*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**20**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B11-0-2
Lab ID: 1306496-13
Collection Date: 6/17/2013 11:05 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**6.1**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*94.0*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*84.2*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**8.7**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B11-2-4
Lab ID: 1306496-14
Collection Date: 6/17/2013 11:10 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.17**		**0.13**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*92.6*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*84.4*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**21**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B11-4-6
Lab ID: 1306496-15
Collection Date: 6/17/2013 11:15 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*83.4*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*82.0*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**9.0**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B11-6-8
Lab ID: 1306496-16
Collection Date: 6/17/2013 11:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.27	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.28**		**0.13**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*84.8*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*83.8*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**26**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B14-2-2
Lab ID: 1306496-17
Collection Date: 6/17/2013 11:25 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**2.1**		**0.12**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*92.4*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*86.6*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**13**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B14-2-4
Lab ID: 1306496-18
Collection Date: 6/17/2013 11:30 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.23**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*90.6*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*84.2*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**7.9**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B14-4-6
Lab ID: 1306496-19
Collection Date: 6/17/2013 11:35 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.61**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*93.0*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*84.2*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**9.7**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: B14-6-8
Lab ID: 1306496-20
Collection Date: 6/17/2013 11:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*92.2*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*84.2*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**18**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: DUP-1
Lab ID: 1306496-21
Collection Date: 6/17/2013
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		1.1	mg/Kg-dry	10	6/22/2013
Aroclor 1221	ND		2.2	mg/Kg-dry	10	6/22/2013
Aroclor 1232	ND		1.1	mg/Kg-dry	10	6/22/2013
Aroclor 1242	ND		1.1	mg/Kg-dry	10	6/22/2013
Aroclor 1248	**23**		**1.1**	**mg/Kg-dry**	10	6/22/2013
Aroclor 1254	ND		1.1	mg/Kg-dry	10	6/22/2013
Aroclor 1260	ND		1.1	mg/Kg-dry	10	6/22/2013
Surr: Decachlorobiphenyl	*91.2*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*83.8*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**9.4**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496
Sample ID: DUP-2
Lab ID: 1306496-22
Collection Date: 6/17/2013
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/22/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1248	**0.64**		**0.11**	**mg/Kg-dry**	1	6/22/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/22/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/22/2013
Surr: Decachlorobiphenyl	*90.2*		*22-156*	*%REC*	1	6/22/2013
Surr: Tetrachloro-m-xylene	*83.6*		*34-145*	*%REC*	1	6/22/2013
MOISTURE			**SM2540B**		Prep Date: **6/19/2013**	Analyst: **MEE**
Moisture	**7.7**		**0.010**	**% of sample**	1	6/19/2013

Note:

ALS Environmental

Date: 25-Jun-13

Client: Shaw - CB&I
Work Order: 1306496
Project: COTA TO 151,1333 Fields Ave

QC BATCH REPORT

Batch ID: **17286** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-17286-17286** Units: **mg/Kg** Analysis Date: **6/20/2013**
Client ID: Run ID: **GC9_130620A** SeqNo: **633284** Prep Date: **6/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.099	0	*0.1*	0	*99*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0904	0	*0.1*	0	*90.4*	*34-145*	0			

LCS Sample ID **LCS-17286-17286** Units: **mg/Kg** Analysis Date: **6/20/2013**
Client ID: Run ID: **GC9_130620A** SeqNo: **633285** Prep Date: **6/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.088	0.10	2	0	104	50-133	0			
Surr: Decachlorobiphenyl	0.102	0	*0.1*	0	*102*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0954	0	*0.1*	0	*95.4*	*34-145*	0			

MS Sample ID **1306496-08Ams** Units: **mg/Kg** Analysis Date: **6/20/2013**
Client ID: **B10-6-8** Run ID: **GC9_130620A** SeqNo: **633288** Prep Date: **6/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.02	0.10	2.008	0	101	31-150	0			
Surr: Decachlorobiphenyl	0.09578	0	*0.1004*	0	*95.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.08876	0	*0.1004*	0	*88.4*	*34-145*	0			

MSD Sample ID **1306496-08Amsd** Units: **mg/Kg** Analysis Date: **6/20/2013**
Client ID: **B10-6-8** Run ID: **GC9_130620A** SeqNo: **633289** Prep Date: **6/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.072	0.10	2.004	0	103	31-150	2.02	2.56	53	
Surr: Decachlorobiphenyl	0.09399	0	*0.1002*	0	*93.8*	*22-156*	0.09578	*1.89*		
Surr: Tetrachloro-m-xylene	0.08677	0	*0.1002*	0	*86.6*	*34-145*	0.08876	*2.26*		

The following samples were analyzed in this batch:

1306496-01A	1306496-02A	1306496-03A
1306496-04A	1306496-05A	1306496-06A
1306496-07A	1306496-08A	1306496-09A
1306496-10A	1306496-11A	1306496-12A
1306496-13A	1306496-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1306496
Project: COTA TO 151,1333 Fields Ave

QC BATCH REPORT

Batch ID: **17308** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-17308-17308** Units: **mg/Kg** Analysis Date: **6/22/2013**
Client ID: Run ID: **GC9_130622C** SeqNo: **634852** Prep Date: **6/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0944	0	*0.1*	0	*94.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0892	0	*0.1*	0	*89.2*	*34-145*	0			

LCS Sample ID **LCS-17308-17308** Units: **mg/Kg** Analysis Date: **6/22/2013**
Client ID: Run ID: **GC9_130622C** SeqNo: **634853** Prep Date: **6/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.009	0.10	2	0	100	50-133	0			
Surr: Decachlorobiphenyl	0.0974	0	*0.1*	0	*97.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0924	0	*0.1*	0	*92.4*	*34-145*	0			

MS Sample ID **1306496-15A ms** Units: **mg/Kg** Analysis Date: **6/22/2013**
Client ID: **B11-4-6** Run ID: **GC9_130622C** SeqNo: **634855** Prep Date: **6/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.014	0.099	1.972	0	102	31-150	0			
Surr: Decachlorobiphenyl	0.0927	0	*0.09862*	0	*94*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.08402	0	*0.09862*	0	*85.2*	*34-145*	0			

MSD Sample ID **1306496-15A msd** Units: **mg/Kg** Analysis Date: **6/22/2013**
Client ID: **B11-4-6** Run ID: **GC9_130622C** SeqNo: **634856** Prep Date: **6/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.005	0.099	1.976	0	101	31-150	2.014	0.412	53	
Surr: Decachlorobiphenyl	0.09209	0	*0.09881*	0	*93.2*	*22-156*	0.0927	*0.657*		
Surr: Tetrachloro-m-xylene	0.0832	0	*0.09881*	0	*84.2*	*34-145*	0.08402	*0.983*		

The following samples were analyzed in this batch:

1306496-15A	1306496-16A	1306496-17A
1306496-18A	1306496-19A	1306496-20A
1306496-21A	1306496-22A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: *25-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306496

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch 17286					
	Analysis	1306496-09A	634846	PCBs	Sample matrix interference.

ALS Environmental

Date: 25-Jun-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
WorkOrder: **1306496**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 18-Jun-13 00:00

Work Order: 1306496 | Received by: JNW

Checklist completed by Chris Gibson (eSignature) 18-Jun-13 (Date) | Reviewed by: Chris Gibson (eSignature) 18-Jun-13 (Date)

Matrices: Soil
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	_		

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

06-Dec-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA TO 151,1333 Fields Ave Work Order: **1312095**

Dear Kelly,

ALS Environmental received 1 sample on 04-Dec-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 06-Dec-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: **1312095**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1312095-01	B12-2-4-MS/MSD	Soil		6/17/2013 10:33	12/4/2013	☐

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1312095

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *06-Dec-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1312095
Sample ID: B12-2-4-MS/MSD
Lab ID: 1312095-01
Collection Date: 6/17/2013 10:33 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **12/5/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	12/5/2013
Aroclor 1221	ND		0.20	mg/Kg	1	12/5/2013
Aroclor 1232	ND		0.10	mg/Kg	1	12/5/2013
Aroclor 1242	ND		0.10	mg/Kg	1	12/5/2013
Aroclor 1248	ND		0.10	mg/Kg	1	12/5/2013
Aroclor 1254	ND		0.10	mg/Kg	1	12/5/2013
Aroclor 1260	ND		0.10	mg/Kg	1	12/5/2013

Note:

ALS Environmental

Date: 06-Dec-13

Client: Shaw - CB&I
Work Order: 1312095
Project: COTA TO 151,1333 Fields Ave

QC BATCH REPORT

Batch ID: **19977** Instrument ID **GC3** Method: **SW8082**

MBLK Sample ID **MBLK-19977-19977** Units: **mg/Kg** Analysis Date: **12/5/2013**
Client ID: Run ID: **GC3_131205A** SeqNo: **729819** Prep Date: **12/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0578	0	*0.1*	0	*57.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0656	0	*0.1*	0	*65.6*	*34-145*	0			

LCS Sample ID **LCS-19977-19977** Units: **mg/Kg** Analysis Date: **12/5/2013**
Client ID: Run ID: **GC3_131205A** SeqNo: **729820** Prep Date: **12/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.469	0.10	2	0	73.4	50-133	0			
Surr: Decachlorobiphenyl	0.0688	0	*0.1*	0	*68.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0766	0	*0.1*	0	*76.6*	*34-145*	0			

MS Sample ID **1312095-01AMS** Units: **mg/Kg** Analysis Date: **12/5/2013**
Client ID: **B12-2-4-MS/MSD** Run ID: **GC3_131205A** SeqNo: **729822** Prep Date: **12/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.386	0.10	2.008	0	69	31-150	0			
Surr: Decachlorobiphenyl	0.07108	0	*0.1004*	0	*70.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.06325	0	*0.1004*	0	*63*	*34-145*	0			

MSD Sample ID **1312095-01AMSD** Units: **mg/Kg** Analysis Date: **12/5/2013**
Client ID: **B12-2-4-MS/MSD** Run ID: **GC3_131205A** SeqNo: **729823** Prep Date: **12/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.432	0.099	1.984	0	72.2	31-150	1.386	3.22	53	
Surr: Decachlorobiphenyl	0.06944	0	*0.09921*	0	*70*	*22-156*	0.07108	*2.33*		
Surr: Tetrachloro-m-xylene	0.06647	0	*0.09921*	0	*67*	*34-145*	0.06325	*4.96*		

The following samples were analyzed in this batch: 1312095-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 06-Dec-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
WorkOrder: **1312095**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 04-Dec-13 00:00

Work Order: 1312095 | Received by: JNW

Checklist completed by Jan Wilcox (eSignature) 04-Dec-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 05-Dec-13 (Date)

Matrices:

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	_		

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

27-Jun-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA TO 151,1333 Fields Ave Work Order: **1306499**

Dear Kelly,

ALS Environmental received 18 samples on 18-Jun-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Chris Gibson

Shawn Smythe
Project Manager

ALS Environmental

Date: 27-Jun-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: **1306499**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306499-01	B18-0-2	Soil		6/17/2013 12:10	6/18/2013	☐
1306499-02	B-18-2-4	Soil		6/17/2013 12:15	6/18/2013	☐
1306499-03	B18-4-6	Soil		6/17/2013 12:20	6/18/2013	☐
1306499-04	B18-6-8	Soil		6/17/2013 12:25	6/18/2013	☐
1306499-05	B17-0-2	Soil		6/17/2013 12:30	6/18/2013	☐
1306499-06	B17-2-4	Soil		6/17/2013 12:35	6/18/2013	☐
1306499-07	B17-4-6	Soil		6/17/2013 12:40	6/18/2013	☐
1306499-08	B17-6-8	Soil		6/17/2013 12:45	6/18/2013	☐
1306499-09	B16-0-2	Soil		6/17/2013 13:00	6/18/2013	☐
1306499-10	B16-2-4	Soil		6/17/2013 13:10	6/18/2013	☐
1306499-11	B16-4-6	Soil		6/17/2013 13:15	6/18/2013	☐
1306499-12	B16-6-8	Soil		6/17/2013 13:20	6/18/2013	☐
1306499-13	B15-0-2	Soil		6/17/2013 13:30	6/18/2013	☐
1306499-14	B15-2-4	Soil		6/17/2013 13:35	6/18/2013	☐
1306499-15	B15-4-6	Soil		6/17/2013 13:45	6/18/2013	☐
1306499-16	B15-6-8	Soil		6/17/2013 13:50	6/18/2013	☐
1306499-17	DUP-3	Soil		6/17/2013	6/18/2013	☐
1306499-18	DUP-4	Soil		6/17/2013	6/18/2013	☐

ALS Environmental

Date: 27-Jun-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B18-0-2
Lab ID: 1306499-01
Collection Date: 6/17/2013 12:10 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		11	mg/Kg-dry	100	6/27/2013
Aroclor 1221	ND		22	mg/Kg-dry	100	6/27/2013
Aroclor 1232	ND		11	mg/Kg-dry	100	6/27/2013
Aroclor 1242	ND		11	mg/Kg-dry	100	6/27/2013
Aroclor 1248	**50**		**11**	**mg/Kg-dry**	100	6/27/2013
Aroclor 1254	ND		11	mg/Kg-dry	100	6/27/2013
Aroclor 1260	ND		11	mg/Kg-dry	100	6/27/2013
Surr: Decachlorobiphenyl	*93.8*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*111*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**8.3**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B-18-2-4
Lab ID: 1306499-02
Collection Date: 6/17/2013 12:15 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**0.42**		**0.12**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*93.2*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*116*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**20**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B18-4-6
Lab ID: 1306499-03
Collection Date: 6/17/2013 12:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**0.88**		**0.12**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*90.8*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*142*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**18**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B18-6-8
Lab ID: 1306499-04
Collection Date: 6/17/2013 12:25 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*77.0*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*106*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**20**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B17-0-2
Lab ID: 1306499-05
Collection Date: 6/17/2013 12:30 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**2.1**		**0.12**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*0*	S	*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*91.8*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**17**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B17-2-4
Lab ID: 1306499-06
Collection Date: 6/17/2013 12:35 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*93.2*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*118*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**15**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B17-4-6
Lab ID: 1306499-07
Collection Date: 6/17/2013 12:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**0.35**		**0.13**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*93.6*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*145*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**21**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B17-6-8
Lab ID: 1306499-08
Collection Date: 6/17/2013 12:45 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*92.0*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*114*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**22**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B16-0-2
Lab ID: 1306499-09
Collection Date: 6/17/2013 01:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.14	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.28	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.14	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.14	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.14	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.14	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.14	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*93.6*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*114*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**29**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B16-2-4
Lab ID: 1306499-10
Collection Date: 6/17/2013 01:10 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*95.4*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*123*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**17**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B16-4-6
Lab ID: 1306499-11
Collection Date: 6/17/2013 01:15 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**0.14**		**0.12**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*93.2*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*120*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**14**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B16-6-8
Lab ID: 1306499-12
Collection Date: 6/17/2013 01:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**7.5**		**0.12**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*88.8*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*106*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**14**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B15-0-2
Lab ID: 1306499-13
Collection Date: 6/17/2013 01:30 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**0.33**		**0.13**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*103*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*127*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**22**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B15-2-4
Lab ID: 1306499-14
Collection Date: 6/17/2013 01:35 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*91.0*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*111*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**11**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B15-4-6
Lab ID: 1306499-15
Collection Date: 6/17/2013 01:45 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*95.0*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*123*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**12**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: B15-6-8
Lab ID: 1306499-16
Collection Date: 6/17/2013 01:50 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*93.0*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*130*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**9.8**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: DUP-3
Lab ID: 1306499-17
Collection Date: 6/17/2013
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		2.6	mg/Kg-dry	20	6/27/2013
Aroclor 1221	ND		5.1	mg/Kg-dry	20	6/27/2013
Aroclor 1232	ND		2.6	mg/Kg-dry	20	6/27/2013
Aroclor 1242	ND		2.6	mg/Kg-dry	20	6/27/2013
Aroclor 1248	**24**		**2.6**	**mg/Kg-dry**	20	6/27/2013
Aroclor 1254	ND		2.6	mg/Kg-dry	20	6/27/2013
Aroclor 1260	ND		2.6	mg/Kg-dry	20	6/27/2013
Surr: Decachlorobiphenyl	*94.0*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*110*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**22**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: *27-Jun-13*

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
Work Order: 1306499
Sample ID: DUP-4
Lab ID: 1306499-18
Collection Date: 6/17/2013
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/27/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1248	**6.7**		**0.11**	**mg/Kg-dry**	1	6/27/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/27/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/27/2013
Surr: Decachlorobiphenyl	*95.4*		*22-156*	*%REC*	1	6/27/2013
Surr: Tetrachloro-m-xylene	*118*		*34-145*	*%REC*	1	6/27/2013
MOISTURE			**SM2540B**		Prep Date: **6/25/2013**	Analyst: **KMW**
Moisture	**9.8**		**0.010**	**% of sample**	1	6/26/2013

Note:

ALS Environmental

Date: 27-Jun-13

Client: Shaw - CB&I
Work Order: 1306499
Project: COTA TO 151,1333 Fields Ave

QC BATCH REPORT

Batch ID: **17384** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-17384-17384** Units: **mg/Kg** Analysis Date: **6/27/2013**
Client ID: Run ID: **GC9_130627A** SeqNo: **637039** Prep Date: **6/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.1036	0	*0.1*	0	*104*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.11	0	*0.1*	0	*110*	*34-145*	0			

LCS Sample ID **LCS-17384-17384** Units: **mg/Kg** Analysis Date: **6/27/2013**
Client ID: Run ID: **GC9_130627A** SeqNo: **637040** Prep Date: **6/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.103	0.10	2	0	105	50-133	0			
Surr: Decachlorobiphenyl	0.1002	0	*0.1*	0	*100*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1112	0	*0.1*	0	*111*	*34-145*	0			

MS Sample ID **1306499-16AMS** Units: **mg/Kg** Analysis Date: **6/27/2013**
Client ID: **B15-6-8** Run ID: **GC9_130627A** SeqNo: **637148** Prep Date: **6/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.18	0.10	1.992	0	109	31-150	0			
Surr: Decachlorobiphenyl	0.09602	0	*0.0996*	0	*96.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1315	0	*0.0996*	0	*132*	*34-145*	0			

MSD Sample ID **1306499-16AMSD** Units: **mg/Kg** Analysis Date: **6/27/2013**
Client ID: **B15-6-8** Run ID: **GC9_130627A** SeqNo: **637149** Prep Date: **6/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.216	0.10	1.996	0	111	31-150	2.18	1.65	53	
Surr: Decachlorobiphenyl	0.09561	0	*0.0998*	0	*95.8*	*22-156*	0.09602	*0.425*		
Surr: Tetrachloro-m-xylene	0.108	0	*0.0998*	0	*108*	*34-145*	0.1315	*19.6*		

The following samples were analyzed in this batch:

1306499-01A	1306499-02A	1306499-03A
1306499-04A	1306499-05A	1306499-06A
1306499-07A	1306499-08A	1306499-09A
1306499-10A	1306499-11A	1306499-12A
1306499-13A	1306499-14A	1306499-15A
1306499-16A	1306499-17A	1306499-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 27-Jun-13

Client: Shaw - CB&I
Project: COTA TO 151,1333 Fields Ave
WorkOrder: **1306499**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 Date/Time Received: 18-Jun-13 00:00

Work Order: 1306499 Received by: JNW

Checklist completed by Chris Gibson (eSignature) 18-Jun-13 (Date) Reviewed by: Shawn Smythe (eSignature) 25-Jun-13 (Date)

Matrices: Soil
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	_		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

08-Jul-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Fields, Add'l Sampling Work Order: **1306792**

Dear Kelly,

ALS Environmental received 18 samples on 28-Jun-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ALS Environmental

Date: 08-Jul-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: **1306792**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306792-01	B19-0-2	Soil		6/28/2013 10:10	6/28/2013	☐
1306792-02	B19-2-4	Soil		6/28/2013 10:35	6/28/2013	☐
1306792-03	B20-0-2	Soil		6/28/2013 10:40	6/28/2013	☐
1306792-04	B20-2-4	Soil		6/28/2013 11:00	6/28/2013	☐
1306792-05	B21-0-2	Soil		6/28/2013 11:16	6/28/2013	☐
1306792-06	B21-2-4	Soil		6/28/2013 11:21	6/28/2013	☐
1306792-07	B22-0-2	Soil		6/28/2013 11:30	6/28/2013	☐
1306792-08	B22-2-4	Soil		6/28/2013 11:36	6/28/2013	☐
1306792-09	B23-0-2	Soil		6/28/2013 11:43	6/28/2013	☐
1306792-10	B23-2-4	Soil		6/28/2013 12:00	6/28/2013	☐
1306792-11	B24-0-2	Soil		6/28/2013 12:15	6/28/2013	☐
1306792-12	B24-2-4	Soil		6/28/2013 12:22	6/28/2013	☐
1306792-13	B25-0-2	Soil		6/28/2013 12:24	6/28/2013	☐
1306792-14	B25-2-4	Soil		6/28/2013 12:27	6/28/2013	☐
1306792-15	B26-0-2	Soil		6/28/2013 12:38	6/28/2013	☐
1306792-16	B26-2-4	Soil		6/28/2013 12:45	6/28/2013	☐
1306792-17	Dup-5 (B19-0-2)	Soil		6/28/2013 10:10	6/28/2013	☐
1306792-18	Dup-6 (B25-2-4	Soil		6/28/2013 12:27	6/28/2013	☐

ALS Environmental

Date: 08-Jul-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B19-0-2
Lab ID: 1306792-01
Collection Date: 6/28/2013 10:10 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		11	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1221	ND		22	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1232	ND		11	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1242	ND		11	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1248	**110**		**11**	**mg/Kg-dry**	100	7/1/2013 01:20 PM
Aroclor 1254	ND		11	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1260	ND		11	mg/Kg-dry	100	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*90.0*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*107*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B19-2-4
Lab ID: 1306792-02
Collection Date: 6/28/2013 10:35 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		6.2	mg/Kg-dry	50	7/1/2013 01:20 PM
Aroclor 1221	ND		12	mg/Kg-dry	50	7/1/2013 01:20 PM
Aroclor 1232	ND		6.2	mg/Kg-dry	50	7/1/2013 01:20 PM
Aroclor 1242	ND		6.2	mg/Kg-dry	50	7/1/2013 01:20 PM
Aroclor 1248	**75**		**6.2**	**mg/Kg-dry**	50	7/1/2013 01:20 PM
Aroclor 1254	ND		6.2	mg/Kg-dry	50	7/1/2013 01:20 PM
Aroclor 1260	ND		6.2	mg/Kg-dry	50	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*92.2*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*107*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**20**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B20-0-2
Lab ID: 1306792-03
Collection Date: 6/28/2013 10:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**0.16**		**0.12**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*83.0*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*103*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B20-2-4
Lab ID: 1306792-04
Collection Date: 6/28/2013 11:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**1.7**		**0.11**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*89.6*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*135*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**12**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B21-0-2
Lab ID: 1306792-05
Collection Date: 6/28/2013 11:16 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		12	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1221	ND		23	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1232	ND		12	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1242	ND		12	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1248	**38**		**12**	**mg/Kg-dry**	100	7/1/2013 01:20 PM
Aroclor 1254	ND		12	mg/Kg-dry	100	7/1/2013 01:20 PM
Aroclor 1260	ND		12	mg/Kg-dry	100	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*87.8*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*110*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B21-2-4
Lab ID: 1306792-06
Collection Date: 6/28/2013 11:21 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**1.3**		**0.12**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*91.6*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*121*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B22-0-2
Lab ID: 1306792-07
Collection Date: 6/28/2013 11:30 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**8.6**		**0.11**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*105*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*108*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B22-2-4
Lab ID: 1306792-08
Collection Date: 6/28/2013 11:36 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**0.27**		**0.12**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*93.2*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*124*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**18**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B23-0-2
Lab ID: 1306792-09
Collection Date: 6/28/2013 11:43 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*95.0*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*115*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**17**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B23-2-4
Lab ID: 1306792-10
Collection Date: 6/28/2013 12:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**3.1**		**0.13**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*92.6*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*111*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**22**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B24-0-2
Lab ID: 1306792-11
Collection Date: 6/28/2013 12:15 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**0.31**		**0.11**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*94.2*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*113*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**8.6**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B24-2-4
Lab ID: 1306792-12
Collection Date: 6/28/2013 12:22 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*93.0*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*123*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**10**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B25-0-2
Lab ID: 1306792-13
Collection Date: 6/28/2013 12:24 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*96.8*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*97.0*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**16**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B25-2-4
Lab ID: 1306792-14
Collection Date: 6/28/2013 12:27 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**5.8**		**0.13**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*89.6*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*112*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**20**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B26-0-2
Lab ID: 1306792-15
Collection Date: 6/28/2013 12:38 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**0.18**		**0.12**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*91.0*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*113*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**16**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: B26-2-4
Lab ID: 1306792-16
Collection Date: 6/28/2013 12:45 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**0.19**		**0.11**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*98.0*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*120*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/1/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: Dup-5 (B19-0-2)
Lab ID: 1306792-17
Collection Date: 6/28/2013 10:10 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		22	mg/Kg-dry	200	7/1/2013 01:20 PM
Aroclor 1221	ND		45	mg/Kg-dry	200	7/1/2013 01:20 PM
Aroclor 1232	ND		22	mg/Kg-dry	200	7/1/2013 01:20 PM
Aroclor 1242	ND		22	mg/Kg-dry	200	7/1/2013 01:20 PM
Aroclor 1248	**200**		**22**	**mg/Kg-dry**	200	7/1/2013 01:20 PM
Aroclor 1254	ND		22	mg/Kg-dry	200	7/1/2013 01:20 PM
Aroclor 1260	ND		22	mg/Kg-dry	200	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*98.2*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*123*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/5/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792
Sample ID: Dup-6 (B25-2-4
Lab ID: 1306792-18
Collection Date: 6/28/2013 12:27 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **6/29/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1248	**6.9**		**0.12**	**mg/Kg-dry**	1	7/1/2013 01:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/1/2013 01:20 PM
Surr: Decachlorobiphenyl	*94.2*		*22-156*	*%REC*	1	7/1/2013 01:20 PM
Surr: Tetrachloro-m-xylene	*138*		*34-145*	*%REC*	1	7/1/2013 01:20 PM
MOISTURE			**SM2540B**		Prep Date: **7/5/2013**	Analyst: **MEE**
Moisture	**20**		**0.010**	**% of sample**	1	7/1/2013

Note:

ALS Environmental

Date: 08-Jul-13

Client: Shaw - CB&I
Work Order: 1306792
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17468** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-17468-17468** Units: **mg/Kg** Analysis Date: **7/1/2013 01:20 PM**
Client ID: Run ID: **GC9_130701B** SeqNo: **641107** Prep Date: **6/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0904	0	*0.1*	0	*90.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1146	0	*0.1*	0	*115*	*34-145*	0			

LCS Sample ID **LCS-17468-17468** Units: **mg/Kg** Analysis Date: **7/1/2013 01:20 PM**
Client ID: Run ID: **GC9_130701B** SeqNo: **641108** Prep Date: **6/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.902	0.10	2	0	95.1	50-133	0			
Surr: Decachlorobiphenyl	0.1082	0	*0.1*	0	*108*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0966	0	*0.1*	0	*96.6*	*34-145*	0			

MS Sample ID **1306792-08Ams** Units: **mg/Kg** Analysis Date: **7/1/2013 01:20 PM**
Client ID: **B22-2-4** Run ID: **GC9_130701B** SeqNo: **641117** Prep Date: **6/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.174	0.10	1.992	0	109	31-150	0			
Surr: Decachlorobiphenyl	0.09382	0	*0.0996*	0	*94.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1145	0	*0.0996*	0	*115*	*34-145*	0			

MSD Sample ID **1306792-08Amsd** Units: **mg/Kg** Analysis Date: **7/1/2013 01:20 PM**
Client ID: **B22-2-4** Run ID: **GC9_130701B** SeqNo: **641118** Prep Date: **6/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.248	0.10	1.996	0	113	31-150	2.174	3.35	53	
Surr: Decachlorobiphenyl	0.1008	0	*0.0998*	0	*101*	*22-156*	0.09382	*7.17*		
Surr: Tetrachloro-m-xylene	0.1232	0	*0.0998*	0	*123*	*34-145*	0.1145	*7.25*		

The following samples were analyzed in this batch:

1306792-01A	1306792-02A	1306792-03A
1306792-04A	1306792-05A	1306792-06A
1306792-07A	1306792-08A	1306792-09A
1306792-10A	1306792-11A	1306792-12A
1306792-13A	1306792-14A	1306792-15A
1306792-16A	1306792-17A	1306792-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306792

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch 17468					
	Analysis	1306792-06A	641114	PCBs	Sample contains multiple aroclors. Aroclor 1248 was the best representation.
	Analysis	1306792-07A	641115	PCBs	Sample contains multiple aroclors. Aroclor 1248 was the best representation.

ALS Environmental

Date: 08-Jul-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
WorkOrder: **1306792**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 28-Jun-13 00:00

Work Order: 1306792 | Received by: SEG

Checklist completed by Chris Gibson (eSignature) 28-Jun-13 (Date) | Reviewed by: Chris Gibson (eSignature) 28-Jun-13 (Date)

Matrices: Soil
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☐	No ☑	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.5		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	_		

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

24-Jul-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Fields; Project No.: 144938.151 Work Order: **1307351**

Dear Kelly,

ALS Environmental received 42 samples on 17-Jul-2013 09:35 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 52.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ALS Environmental

Date: 24-Jul-13

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151
Work Order: **1307351**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307351-01	B-19 4-6	Soil		7/16/2013 10:00	7/17/2013 09:35	☐
1307351-02	B-19 6-8	Soil		7/16/2013 10:05	7/17/2013 09:35	☐
1307351-03	B-27 0-2	Soil		7/16/2013 10:15	7/17/2013 09:35	☐
1307351-04	B-27 2-4	Soil		7/16/2013 10:18	7/17/2013 09:35	☐
1307351-05	B-27 4-6	Soil		7/16/2013 10:25	7/17/2013 09:35	☐
1307351-06	B-27 6-8	Soil		7/16/2013 10:21	7/17/2013 09:35	☐
1307351-07	B-28 2-4	Soil		7/16/2013 10:30	7/17/2013 09:35	☐
1307351-08	B-28 4-6	Soil		7/16/2013 10:40	7/17/2013 09:35	☐
1307351-09	B-28 0-2	Soil		7/16/2013 10:28	7/17/2013 09:35	☐
1307351-10	B-28 6-8	Soil		7/16/2013 10:42	7/17/2013 09:35	☐
1307351-11	B-29 0-2	Soil		7/16/2013 10:45	7/17/2013 09:35	☐
1307351-12	B-29 2-4	Soil		7/16/2013 10:50	7/17/2013 09:35	☐
1307351-13	B-29 4-6	Soil		7/16/2013 10:55	7/17/2013 09:35	☐
1307351-14	B-29 6-8	Soil		7/16/2013 11:00	7/17/2013 09:35	☐
1307351-15	B-30 0-2	Soil		7/16/2013 11:15	7/17/2013 09:35	☐
1307351-16	B-30 2-4	Soil		7/16/2013 11:20	7/17/2013 09:35	☐
1307351-17	B-30 4-6	Soil		7/16/2013 11:20	7/17/2013 09:35	☐
1307351-18	B-30 6-8	Soil		7/16/2013 11:25	7/17/2013 09:35	☐
1307351-19	B-31 0-2	Soil		7/16/2013 11:30	7/17/2013 09:35	☐
1307351-20	B-31 2-4	Soil		7/16/2013 11:35	7/17/2013 09:35	☐
1307351-21	B-31 4-6	Soil		7/16/2013 11:38	7/17/2013 09:35	☐
1307351-22	B-31 6-8	Soil		7/16/2013 11:40	7/17/2013 09:35	☐
1307351-23	B-32 0-2	Soil		7/16/2013 11:50	7/17/2013 09:35	☐
1307351-24	B-32 2-4	Soil		7/16/2013 11:55	7/17/2013 09:35	☐
1307351-25	B-32 4-6	Soil		7/16/2013 12:05	7/17/2013 09:35	☐
1307351-26	B-32 6-8	Soil		7/16/2013 12:10	7/17/2013 09:35	☐
1307351-27	B-33 0-2	Soil		7/16/2013 12:15	7/17/2013 09:35	☐
1307351-28	B-33 2-4	Soil		7/16/2013 12:17	7/17/2013 09:35	☐
1307351-29	B-33 4-6	Soil		7/16/2013 12:20	7/17/2013 09:35	☐
1307351-30	B-33 6-8	Soil		7/16/2013 12:22	7/17/2013 09:35	☐
1307351-31	B-34 0-2	Soil		7/16/2013 12:25	7/17/2013 09:35	☐
1307351-32	B-34 2-4	Soil		7/16/2013 12:30	7/17/2013 09:35	☐
1307351-33	B-34 4-6	Soil		7/16/2013 12:35	7/17/2013 09:35	☐
1307351-34	B-34 6-8	Soil		7/16/2013 12:37	7/17/2013 09:35	☐
1307351-35	B-35 0-2	Soil		7/16/2013 12:40	7/17/2013 09:35	☐
1307351-36	B-35 2-4	Soil		7/16/2013 12:45	7/17/2013 09:35	☐
1307351-37	B-35 4-6	Soil		7/16/2013 12:50	7/17/2013 09:35	☐
1307351-38	B-35 6-8	Soil		7/16/2013 12:55	7/17/2013 09:35	☐
1307351-39	dup1-07162013	Soil		7/16/2013	7/17/2013 09:35	☐

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151
Work Order: **1307351**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307351-40	dup2-07162013	Soil		7/16/2013	7/17/2013 09:35	☐
1307351-41	dup3-07162013	Soil		7/16/2013	7/17/2013 09:35	☐
1307351-42	dup4-07162013	Soil		7/16/2013	7/17/2013 09:35	☐

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151
Work Order: 1307351

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-19 4-6 **Lab ID:** 1307351-01
Collection Date: 7/16/2013 10:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		5.8	mg/Kg-dry	50	7/18/2013
Aroclor 1221	ND		12	mg/Kg-dry	50	7/18/2013
Aroclor 1232	ND		5.8	mg/Kg-dry	50	7/18/2013
Aroclor 1242	ND		5.8	mg/Kg-dry	50	7/18/2013
Aroclor 1248	**56**		**5.8**	**mg/Kg-dry**	50	7/18/2013
Aroclor 1254	ND		5.8	mg/Kg-dry	50	7/18/2013
Aroclor 1260	ND		5.8	mg/Kg-dry	50	7/18/2013
Surr: Decachlorobiphenyl	*103*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*105*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-19 6-8 **Lab ID:** 1307351-02
Collection Date: 7/16/2013 10:05 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*108*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*111*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**17**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-27 0-2 **Lab ID:** 1307351-03
Collection Date: 7/16/2013 10:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**2.7**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*107*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*113*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**17**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-27 2-4 **Lab ID:** 1307351-04
Collection Date: 7/16/2013 10:18 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**3.4**		**0.11**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*113*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*115*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-27 4-6 **Lab ID:** 1307351-05
Collection Date: 7/16/2013 10:25 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**2.7**		**0.11**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*104*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*111*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**12**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-27 6-8 **Lab ID:** 1307351-06
Collection Date: 7/16/2013 10:21 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*110*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*114*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-28 2-4 **Lab ID:** 1307351-07
Collection Date: 7/16/2013 10:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.21	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.64**		**0.11**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*113*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*117*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**6.0**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-28 4-6 **Lab ID:** 1307351-08
Collection Date: 7/16/2013 10:40 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.56**		**0.11**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*109*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*114*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**9.2**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-28 0-2 **Lab ID:** 1307351-09
Collection Date: 7/16/2013 10:28 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.54	mg/Kg-dry	5	7/18/2013
Aroclor 1221	ND		1.1	mg/Kg-dry	5	7/18/2013
Aroclor 1232	ND		0.54	mg/Kg-dry	5	7/18/2013
Aroclor 1242	ND		0.54	mg/Kg-dry	5	7/18/2013
Aroclor 1248	**6.3**		**0.54**	**mg/Kg-dry**	5	7/18/2013
Aroclor 1254	ND		0.54	mg/Kg-dry	5	7/18/2013
Aroclor 1260	ND		0.54	mg/Kg-dry	5	7/18/2013
Surr: Decachlorobiphenyl	*114*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*120*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**8.3**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-28 6-8 **Lab ID:** 1307351-10
Collection Date: 7/16/2013 10:42 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*109*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*108*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-29 0-2 **Lab ID:** 1307351-11
Collection Date: 7/16/2013 10:45 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.59	mg/Kg-dry	5	7/18/2013
Aroclor 1221	ND		1.2	mg/Kg-dry	5	7/18/2013
Aroclor 1232	ND		0.59	mg/Kg-dry	5	7/18/2013
Aroclor 1242	ND		0.59	mg/Kg-dry	5	7/18/2013
Aroclor 1248	**12**		**0.59**	**mg/Kg-dry**	5	7/18/2013
Aroclor 1254	ND		0.59	mg/Kg-dry	5	7/18/2013
Aroclor 1260	ND		0.59	mg/Kg-dry	5	7/18/2013
Surr: Decachlorobiphenyl	*114*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*116*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**16**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-29 2-4 **Lab ID:** 1307351-12
Collection Date: 7/16/2013 10:50 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		2.4	mg/Kg-dry	20	7/18/2013
Aroclor 1221	ND		4.8	mg/Kg-dry	20	7/18/2013
Aroclor 1232	ND		2.4	mg/Kg-dry	20	7/18/2013
Aroclor 1242	ND		2.4	mg/Kg-dry	20	7/18/2013
Aroclor 1248	**20**		**2.4**	**mg/Kg-dry**	20	7/18/2013
Aroclor 1254	ND		2.4	mg/Kg-dry	20	7/18/2013
Aroclor 1260	ND		2.4	mg/Kg-dry	20	7/18/2013
Surr: Decachlorobiphenyl	*113*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*113*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**17**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-29 4-6 **Lab ID:** 1307351-13
Collection Date: 7/16/2013 10:55 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/17/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**4.6**		**0.13**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*109*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*111*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**22**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-29 6-8 **Lab ID:** 1307351-14
Collection Date: 7/16/2013 11:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1254	**1.5**		**0.13**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*101*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*104*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**25**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-30 0-2 **Lab ID:** 1307351-15
Collection Date: 7/16/2013 11:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		1.1	mg/Kg-dry	10	7/18/2013
Aroclor 1221	ND		2.2	mg/Kg-dry	10	7/18/2013
Aroclor 1232	ND		1.1	mg/Kg-dry	10	7/18/2013
Aroclor 1242	ND		1.1	mg/Kg-dry	10	7/18/2013
Aroclor 1248	**55**		**1.1**	**mg/Kg-dry**	10	7/18/2013
Aroclor 1254	ND		1.1	mg/Kg-dry	10	7/18/2013
Aroclor 1260	ND		1.1	mg/Kg-dry	10	7/18/2013
Surr: Decachlorobiphenyl	*108*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*108*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**10**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-30 2-4 **Lab ID:** 1307351-16
Collection Date: 7/16/2013 11:20 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		2.2	mg/Kg-dry	20	7/18/2013
Aroclor 1221	ND		4.5	mg/Kg-dry	20	7/18/2013
Aroclor 1232	ND		2.2	mg/Kg-dry	20	7/18/2013
Aroclor 1242	ND		2.2	mg/Kg-dry	20	7/18/2013
Aroclor 1248	**47**		**2.2**	**mg/Kg-dry**	20	7/18/2013
Aroclor 1254	ND		2.2	mg/Kg-dry	20	7/18/2013
Aroclor 1260	ND		2.2	mg/Kg-dry	20	7/18/2013
Surr: Decachlorobiphenyl	*99.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*103*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-30 4-6 **Lab ID:** 1307351-17
Collection Date: 7/16/2013 11:20 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.27**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*92.2*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*102*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**13**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-30 6-8 **Lab ID:** 1307351-18
Collection Date: 7/16/2013 11:25 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*97.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*103*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**18**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-31 0-2 **Lab ID:** 1307351-19
Collection Date: 7/16/2013 11:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.27	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*96.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*99.4*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**25**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-31 2-4 **Lab ID:** 1307351-20
Collection Date: 7/16/2013 11:35 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**1.8**		**0.13**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*102*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*107*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**21**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-31 4-6 **Lab ID:** 1307351-21
Collection Date: 7/16/2013 11:38 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.40**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*91.2*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*101*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-31 6-8 **Lab ID:** 1307351-22
Collection Date: 7/16/2013 11:40 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*100*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*103*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-32 0-2 **Lab ID:** 1307351-23
Collection Date: 7/16/2013 11:50 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**2.4**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*101*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*112*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**18**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-32 2-4 **Lab ID:** 1307351-24
Collection Date: 7/16/2013 11:55 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*95.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*110*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**10**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-32 4-6 **Lab ID:** 1307351-25
Collection Date: 7/16/2013 12:05 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.26**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*89.4*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*98.2*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-32 6-8 **Lab ID:** 1307351-26
Collection Date: 7/16/2013 12:10 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*96.2*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*110*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**18**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-33 0-2 **Lab ID:** 1307351-27
Collection Date: 7/16/2013 12:15 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*96.8*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*107*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**7.9**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-33 2-4 **Lab ID:** 1307351-28
Collection Date: 7/16/2013 12:17 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.60**		**0.11**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*94.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*106*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**13**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-33 4-6 **Lab ID:** 1307351-29
Collection Date: 7/16/2013 12:20 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*84.2*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*93.6*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-33 6-8 **Lab ID:** 1307351-30
Collection Date: 7/16/2013 12:22 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*81.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*94.0*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**11**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-34 0-2 **Lab ID:** 1307351-31
Collection Date: 7/16/2013 12:25 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		1.2	mg/Kg-dry	10	7/18/2013
Aroclor 1221	ND		2.3	mg/Kg-dry	10	7/18/2013
Aroclor 1232	ND		1.2	mg/Kg-dry	10	7/18/2013
Aroclor 1242	ND		1.2	mg/Kg-dry	10	7/18/2013
Aroclor 1248	**24**		**1.2**	**mg/Kg-dry**	10	7/18/2013
Aroclor 1254	ND		1.2	mg/Kg-dry	10	7/18/2013
Aroclor 1260	ND		1.2	mg/Kg-dry	10	7/18/2013
Surr: Decachlorobiphenyl	*91.4*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*105*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-34 2-4 **Lab ID:** 1307351-32
Collection Date: 7/16/2013 12:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**6.2**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*96.4*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*106*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-34 4-6 **Lab ID:** 1307351-33
Collection Date: 7/16/2013 12:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*86.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*99.4*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**18**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-34 6-8 **Lab ID:** 1307351-34
Collection Date: 7/16/2013 12:37 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*86.4*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*92.6*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**20**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-35 0-2 **Lab ID:** 1307351-35
Collection Date: 7/16/2013 12:40 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*98.2*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*106*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**16**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-35 2-4 **Lab ID:** 1307351-36
Collection Date: 7/16/2013 12:45 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**1.5**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*94.0*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*104*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-35 4-6 **Lab ID:** 1307351-37
Collection Date: 7/16/2013 12:50 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**1.8**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*83.6*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*93.6*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**16**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: B-35 6-8 **Lab ID:** 1307351-38
Collection Date: 7/16/2013 12:55 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*75.8*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*109*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**17**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: dup1-07162013 **Lab ID:** 1307351-39
Collection Date: 7/16/2013 **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**0.12**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*78.0*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*110*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**14**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: dup2-07162013 **Lab ID:** 1307351-40
Collection Date: 7/16/2013 **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*78.0*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*108*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**7.3**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: dup3-07162013 **Lab ID:** 1307351-41
Collection Date: 7/16/2013 **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1248	**1.6**		**0.12**	**mg/Kg-dry**	1	7/18/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*80.2*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*110*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**15**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151 **Work Order:** 1307351
Sample ID: dup4-07162013 **Lab ID:** 1307351-42
Collection Date: 7/16/2013 **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/23/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	7/18/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	7/18/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	7/18/2013
Surr: Decachlorobiphenyl	*84.8*		*22-156*	*%REC*	1	7/18/2013
Surr: Tetrachloro-m-xylene	*105*		*34-145*	*%REC*	1	7/18/2013
MOISTURE			**SM2540B**		Prep Date: **7/17/2013**	Analyst: **MEE**
Moisture	**21**		**0.010**	**% of sample**	1	7/17/2013

Note:

ALS Environmental

Date: 24-Jul-13

Client: Shaw - CB&I
Work Order: 1307351
Project: COTA Fields; Project No.: 144938.151

QC BATCH REPORT

Batch ID: **17720** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-17720-17720** Units: **mg/Kg** Analysis Date: **7/17/2013**
Client ID: Run ID: **GC9_130717B** SeqNo: **647427** Prep Date: **7/17/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.1292	0	*0.1*	0	*129*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1338	0	*0.1*	0	*134*	*34-145*	0			

LCS Sample ID: **LCS-17720-17720** Units: **mg/Kg** Analysis Date: **7/17/2013**
Client ID: Run ID: **GC9_130717B** SeqNo: **647428** Prep Date: **7/17/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.279	0.10	2	0	114	50-133	0			
Surr: Decachlorobiphenyl	0.1198	0	*0.1*	0	*120*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1198	0	*0.1*	0	*120*	*34-145*	0			

MS Sample ID: **1307336-04BMS** Units: **mg/Kg** Analysis Date: **7/17/2013**
Client ID: Run ID: **GC9_130717B** SeqNo: **647433** Prep Date: **7/17/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.067	0.10	2.004	0	103	31-150	0			
Surr: Decachlorobiphenyl	0.1084	0	*0.1002*	0	*108*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1026	0	*0.1002*	0	*102*	*34-145*	0			

MSD Sample ID: **1307336-04BMSD** Units: **mg/Kg** Analysis Date: **7/17/2013**
Client ID: Run ID: **GC9_130717B** SeqNo: **647434** Prep Date: **7/17/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.079	0.099	1.976	0	105	31-150	2.067	0.575	53	
Surr: Decachlorobiphenyl	0.1099	0	*0.09881*	0	*111*	*22-156*	0.1084	*1.34*		
Surr: Tetrachloro-m-xylene	0.1101	0	*0.09881*	0	*111*	*34-145*	0.1026	*7.03*		

The following samples were analyzed in this batch:

1307351-01A	1307351-02A	1307351-03A
1307351-04A	1307351-05A	1307351-06A
1307351-07A	1307351-08A	1307351-09A
1307351-10A	1307351-11A	1307351-12A
1307351-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307351
Project: COTA Fields; Project No.: 144938.151

QC BATCH REPORT

Batch ID: **17776** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-17776-17776** Units: **mg/Kg** Analysis Date: **7/22/2013**
Client ID: Run ID: **GC9_130722A** SeqNo: **648621** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.104	0	*0.1*	0	*104*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1072	0	*0.1*	0	*107*	*34-145*	0			

LCS Sample ID: **LCS-17776-17776** Units: **mg/Kg** Analysis Date: **7/22/2013**
Client ID: Run ID: **GC9_130722A** SeqNo: **648622** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.207	0.10	2	0	110	50-133	0			
Surr: Decachlorobiphenyl	0.1092	0	*0.1*	0	*109*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1118	0	*0.1*	0	*112*	*34-145*	0			

MS Sample ID: **1307411-02BMS** Units: **mg/Kg** Analysis Date: **7/22/2013**
Client ID: Run ID: **GC9_130722A** SeqNo: **648625** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2	0.10	2.004	0	99.8	31-150	0			
Surr: Decachlorobiphenyl	0.09038	0	*0.1002*	0	*90.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1088	0	*0.1002*	0	*109*	*34-145*	0			

MSD Sample ID: **1307411-02BMSD** Units: **mg/Kg** Analysis Date: **7/22/2013**
Client ID: Run ID: **GC9_130722A** SeqNo: **648626** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.065	0.099	1.988	0	104	31-150	2	3.24	53	
Surr: Decachlorobiphenyl	0.0998	0	*0.0994*	0	*100*	*22-156*	0.09038	*9.91*		
Surr: Tetrachloro-m-xylene	0.105	0	*0.0994*	0	*106*	*34-145*	0.1088	*3.6*		

The following samples were analyzed in this batch:

1307351-14A	1307351-15A	1307351-16A
1307351-17A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307351
Project: COTA Fields; Project No.: 144938.151

QC BATCH REPORT

Batch ID: **17830** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-17830-17830** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: Run ID: **GC9_130718A** SeqNo: **649679** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.099	0	*0.1*	0	*99*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1096	0	*0.1*	0	*110*	*34-145*	0			

LCS Sample ID: **LCS-17830-17830** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: Run ID: **GC9_130718A** SeqNo: **649680** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.175	0.10	2	0	109	50-133	0			
Surr: Decachlorobiphenyl	0.106	0	*0.1*	0	*106*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1112	0	*0.1*	0	*111*	*34-145*	0			

MS Sample ID: **1307351-21A MS** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: **B-31 4-6** Run ID: **GC9_130718A** SeqNo: **649685** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.244	0.10	1.992	0	113	31-150	0			
Surr: Decachlorobiphenyl	0.1006	0	*0.0996*	0	*101*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.104	0	*0.0996*	0	*104*	*34-145*	0			

MSD Sample ID: **1307351-21A MSD** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: **B-31 4-6** Run ID: **GC9_130718A** SeqNo: **649686** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.913	0.099	1.988	0	96.2	31-150	2.244	15.9	53	
Surr: Decachlorobiphenyl	0.0825	0	*0.0994*	0	*83*	*22-156*	0.1006	*19.8*		
Surr: Tetrachloro-m-xylene	0.1099	0	*0.0994*	0	*111*	*34-145*	0.104	*5.57*		

The following samples were analyzed in this batch:

1307351-18A	1307351-19A	1307351-20A
1307351-21A	1307351-22A	1307351-23A
1307351-24A	1307351-25A	1307351-26A
1307351-27A	1307351-28A	1307351-29A
1307351-30A	1307351-31A	1307351-32A
1307351-33A	1307351-34A	1307351-35A
1307351-36A	1307351-37A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307351
Project: COTA Fields; Project No.: 144938.151

QC BATCH REPORT

Batch ID: **17839** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-17839-17839** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: Run ID: **GC9_130718A** SeqNo: **650431** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0942	0	*0.1*	0	*94.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.111	0	*0.1*	0	*111*	*34-145*	0			

LCS Sample ID: **LCS-17839-17839** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: Run ID: **GC9_130718A** SeqNo: **650432** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.026	0.10	2	0	101	50-133	0			
Surr: Decachlorobiphenyl	0.0876	0	*0.1*	0	*87.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.112	0	*0.1*	0	*112*	*34-145*	0			

MS Sample ID: **1307351-38A MS** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: **B-35 6-8** Run ID: **GC9_130718A** SeqNo: **650434** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.804	0.10	2	0	90.2	31-150	0			
Surr: Decachlorobiphenyl	0.075	0	*0.1*	0	*75*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0988	0	*0.1*	0	*98.8*	*34-145*	0			

MSD Sample ID: **1307351-38A MSD** Units: **mg/Kg** Analysis Date: **7/18/2013**
Client ID: **B-35 6-8** Run ID: **GC9_130718A** SeqNo: **650435** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.974	0.099	1.984	0	99.5	31-150	1.804	9	53	
Surr: Decachlorobiphenyl	0.08313	0	*0.09921*	0	*83.8*	*22-156*	0.075	*10.3*		
Surr: Tetrachloro-m-xylene	0.1046	0	*0.09921*	0	*105*	*34-145*	0.0988	*5.67*		

The following samples were analyzed in this batch:

1307351-38A	1307351-39A	1307351-40A
1307351-41A	1307351-42A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-13

Client: Shaw - CB&I
Project: COTA Fields; Project No.: 144938.151
WorkOrder: **1307351**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: **CB&I-SHAW-CINCINNATI-5050** Date/Time Received: **17-Jul-13 09:35**

Work Order: **1307351** Received by: **SEG**

Checklist completed by: Shiloh Greenwald 17-Jul-13 (eSignature / Date) Reviewed by: Chris Gibson 17-Jul-13 (eSignature / Date)

Matrices:
Carrier name: Client

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 2.3

Cooler(s)/Kit(s):

	Yes	No	
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☐	☐	N/A ☐
pH adjusted?	☐	☐	N/A ☐

pH adjusted by: -

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

26-Jun-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Fields, Add'l Sampling Work Order: **1306680**

Dear Kelly,

ALS Environmental received 1 sample on 25-Jun-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ALS Environmental

Date: 26-Jun-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: **1306680**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306680-01	B-10 (0-2,2-4,4-6,6-8)	Soil		6/17/2013	6/25/2013	☐

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1306680

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *26-Jun-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Sample ID: B-10 (0-2,2-4,4-6,6-8)
Collection Date: 6/17/2013

Work Order: 1306680
Lab ID: 1306680-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			**SM2540B**		Prep Date: **6/26/2013**	Analyst: **MEE**
Moisture	**13**		**0.010**	**% of sample**	1	6/26/2013
MERCURY BY CVAA			**SW7471A**		Prep Date: **6/25/2013**	Analyst: **SLW**
Mercury	ND		0.33	mg/Kg-dry	1	6/25/2013 08:34 PM
METALS BY ICP			**SW6010B**		Prep Date: **6/25/2013**	Analyst: **VAW**
Arsenic	**13**		**5.7**	**mg/Kg-dry**	1	6/26/2013 08:56 AM
Barium	**120**		**11**	**mg/Kg-dry**	1	6/26/2013 08:56 AM
Cadmium	ND		1.1	mg/Kg-dry	1	6/26/2013 08:56 AM
Chromium	**23**		**5.7**	**mg/Kg-dry**	1	6/26/2013 08:56 AM
Lead	**52**		**5.7**	**mg/Kg-dry**	1	6/26/2013 08:56 AM
Selenium	ND		3.4	mg/Kg-dry	1	6/26/2013 08:56 AM
Silver	ND		1.1	mg/Kg-dry	1	6/26/2013 08:56 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: Shaw - CB&I
Work Order: 1306680
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17377** Instrument ID: **HG1** Method: **SW7471A**

MBLK Sample ID: **MBLK-17377-17377** Units: **mg/Kg** Analysis Date: **6/25/2013 08:32 PM**
Client ID: Run ID: **HG1_130625B** SeqNo: **635435** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.30								

LCS Sample ID: **LCS-17377-17377** Units: **mg/Kg** Analysis Date: **6/25/2013 08:28 PM**
Client ID: Run ID: **HG1_130625B** SeqNo: **635433** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.42	0.30	1.115	0	127	69-147	0			

LCSD Sample ID: **LCSD-17377-17377** Units: **mg/Kg** Analysis Date: **6/25/2013 08:30 PM**
Client ID: Run ID: **HG1_130625B** SeqNo: **635434** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.465	0.30	1.114	0	132	69-147	1.42	3.14	20	

The following samples were analyzed in this batch: 1306680-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1306680
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17373** Instrument ID: **ICP3** Method: **SW6010B**

MBLK Sample ID: **mblk-17373-17373** Units: **mg/Kg** Analysis Date: **6/26/2013 08:35 AM**
Client ID: Run ID: **ICP3_130626A** SeqNo: **635547** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	5.0								
Barium	ND	10								
Cadmium	ND	1.0								
Chromium	ND	2.0								
Lead	ND	5.0								
Selenium	ND	3.0								
Silver	ND	1.0								

LCS Sample ID: **lcs-17373-17373** Units: **mg/Kg** Analysis Date: **6/26/2013 08:42 AM**
Client ID: Run ID: **ICP3_130626A** SeqNo: **635548** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	104.2	5.0	100	0	104	80-120	0			
Barium	109.7	10	100	0	110	80-120	0			
Cadmium	108.2	1.0	100	0	108	80-120	0			
Chromium	104.3	2.0	100	0	104	80-120	0			
Lead	110.5	5.0	100	0	110	80-120	0			
Selenium	105.6	3.0	100	0	106	80-120	0			
Silver	106	1.0	100	0	106	80-120	0			

LCSD Sample ID: **lcsd-17373-17373** Units: **mg/Kg** Analysis Date: **6/26/2013 08:49 AM**
Client ID: Run ID: **ICP3_130626A** SeqNo: **635549** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	103.5	5.0	100	0	104	80-120	104.2	0.674	20	
Barium	109.3	10	100	0	109	80-120	109.7	0.365	20	
Cadmium	107.7	1.0	100	0	108	80-120	108.2	0.463	20	
Chromium	103.6	2.0	100	0	104	80-120	104.3	0.673	20	
Lead	109.9	5.0	100	0	110	80-120	110.5	0.544	20	
Selenium	105.1	3.0	100	0	105	80-120	105.6	0.475	20	
Silver	105.9	1.0	100	0	106	80-120	106	0.0944	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1306680
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17373** Instrument ID: **ICP3** Method: **SW6010B**

MS Sample ID: **1306680-01a ms** Units: **mg/Kg** Analysis Date: **6/26/2013 09:03 AM**
Client ID: **B-10 (0-2,2-4,4-6,6-8)** Run ID: **ICP3_130626A** SeqNo: **635551** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	107	4.9	98.79	11.76	96.4	75-125	0			
Barium	186.2	9.9	98.79	100.9	86.4	75-125	0			
Cadmium	98.99	0.99	98.79	0.7295	99.5	75-125	0			
Chromium	104.8	2.0	98.79	20.52	85.3	75-125	0			
Lead	136.6	4.9	98.79	45.06	92.7	75-125	0			
Selenium	96.92	3.0	98.79	1.751	96.3	75-125	0			
Silver	97.48	0.99	98.79	-0.02563	98.7	75-125	0			

MSD Sample ID: **1306680-01a msd** Units: **mg/Kg** Analysis Date: **6/26/2013 09:10 AM**
Client ID: **B-10 (0-2,2-4,4-6,6-8)** Run ID: **ICP3_130626A** SeqNo: **635552** Prep Date: **6/25/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	108.8	5.0	99.4	11.76	97.7	75-125	107	1.72	20	
Barium	176.9	9.9	99.4	100.9	76.5	75-125	186.2	5.12	20	
Cadmium	101.4	0.99	99.4	0.7295	101	75-125	98.99	2.39	20	
Chromium	114.9	2.0	99.4	20.52	95	75-125	104.8	9.18	20	
Lead	127.9	5.0	99.4	45.06	83.4	75-125	136.6	6.58	20	
Selenium	99.27	3.0	99.4	1.751	98.1	75-125	96.92	2.4	20	
Silver	99.5	0.99	99.4	-0.02563	100	75-125	97.48	2.05	20	

The following samples were analyzed in this batch: 1306680-01a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 26-Jun-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
WorkOrder: **1306680**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: **CB&I-SHAW-CINCINNATI-5050** Date/Time Received: **25-Jun-13 00:00**

Work Order: **1306680** Received by: **JNW**

Checklist completed by: Chris Gibson (eSignature) 25-Jun-13 (Date) Reviewed by: Chris Gibson (eSignature) 25-Jun-13 (Date)

Matrices: Soil
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	-		

Login Notes: Relog from 1306496

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

12-Jul-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Fields, Add'l Sampling Work Order: **1307217**

Dear Kelly,

ALS Environmental received 1 sample on 10-Jul-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ALS Environmental

Date: 12-Jul-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: **1307217**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307217-01	B-10 (0-2,2-4,4-6,6-8)	Soil		6/17/2013 10:20	6/18/2013 09:45	☐

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Work Order: 1307217

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The samples originally were received in WO 1306680.

ALS Environmental

Date: *12-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
Sample ID: B-10 (0-2,2-4,4-6,6-8)
Collection Date: 6/17/2013 10:20 AM

Work Order: 1307217
Lab ID: 1307217-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			**SW7470A**		Prep Date: **7/11/2013**	Analyst: **SLW**
Mercury	ND		0.50	µg/L	1	7/12/2013 08:23 AM
TCLP METALS BY ICP			**SW6010B**		Prep Date: **7/11/2013**	Analyst: **VAW**
Arsenic	ND		0.10	mg/L	5	7/11/2013 03:40 AM
Barium	**1.4**		**0.10**	**mg/L**	5	7/11/2013 03:40 AM
Cadmium	ND		0.10	mg/L	5	7/11/2013 03:40 AM
Chromium	ND		0.10	mg/L	5	7/11/2013 03:40 AM
Lead	ND		0.10	mg/L	5	7/11/2013 03:40 AM
Selenium	ND		0.10	mg/L	5	7/11/2013 03:40 AM
Silver	ND		0.10	mg/L	5	7/11/2013 03:40 AM

Note:

ALS Environmental

Date: 12-Jul-13

Client: Shaw - CB&I
Work Order: 1307217
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17643** Instrument ID: **HG1** Method: **SW7470A**

MBLK Sample ID: **MBLK-17643-17643** Units: **µg/L** Analysis Date: **7/12/2013 08:21 AM**
Client ID: Run ID: **HG1_130712A** SeqNo: **644797** Prep Date: **7/11/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS Sample ID: **LCS-17643-17643** Units: **µg/L** Analysis Date: **7/12/2013 08:17 AM**
Client ID: Run ID: **HG1_130712A** SeqNo: **644795** Prep Date: **7/11/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.93	0.50	5	0	98.6	80-120	0			

LCSD Sample ID: **LCSD-17643-17643** Units: **µg/L** Analysis Date: **7/12/2013 08:19 AM**
Client ID: Run ID: **HG1_130712A** SeqNo: **644796** Prep Date: **7/11/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.97	0.50	5	0	99.4	80-120	4.93	0.808	20	

MS Sample ID: **1307217-01A MS** Units: **µg/L** Analysis Date: **7/12/2013 08:25 AM**
Client ID: **B-10 (0-2,2-4,4-6,6-8)** Run ID: **HG1_130712A** SeqNo: **644799** Prep Date: **7/11/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.87	0.50	5	0.03	96.8	75-125	0			

MSD Sample ID: **1307217-01A MSD** Units: **µg/L** Analysis Date: **7/12/2013 08:27 AM**
Client ID: **B-10 (0-2,2-4,4-6,6-8)** Run ID: **HG1_130712A** SeqNo: **644800** Prep Date: **7/11/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.06	0.50	5	0.03	101	75-125	4.87	3.83	20	

The following samples were analyzed in this batch: 1307217-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307217
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17640** Instrument ID: **ICP2** Method: **SW6010B**

MBLK Sample ID: **mblk-17640-17640** Units: **mg/L** Analysis Date: **7/11/2013 03:18 AM**
Client ID: Run ID: **ICP2_130712A** SeqNo: **644750** Prep Date: **7/11/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.10								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.10								
Lead	ND	0.10								
Selenium	ND	0.10								
Silver	ND	0.10								

LCS Sample ID: **lcs-17640-17640** Units: **mg/L** Analysis Date: **7/11/2013 03:25 AM**
Client ID: Run ID: **ICP2_130712A** SeqNo: **644751** Prep Date: **7/11/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.273	0.10	1.1	0	116	80-120	0			
Barium	1.212	0.10	1.1	0	110	80-120	0			
Cadmium	1.269	0.10	1.1	0	115	80-120	0			
Chromium	1.236	0.10	1.1	0	112	80-120	0			
Lead	1.189	0.10	1.1	0	108	80-120	0			
Selenium	1.318	0.10	1.1	0	120	80-120	0			
Silver	1.124	0.10	1.1	0	102	80-120	0			

LCSD Sample ID: **lcsd-17640-17640** Units: **mg/L** Analysis Date: **7/11/2013 03:33 AM**
Client ID: Run ID: **ICP2_130712A** SeqNo: **644752** Prep Date: **7/11/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.16	0.10	1.1	0	106	80-120	1.273	9.27	20	
Barium	1.178	0.10	1.1	0	107	80-120	1.212	2.85	20	
Cadmium	1.148	0.10	1.1	0	104	80-120	1.269	10	20	
Chromium	1.132	0.10	1.1	0	103	80-120	1.236	8.78	20	
Lead	1.109	0.10	1.1	0	101	80-120	1.189	6.99	20	
Selenium	1.187	0.10	1.1	0	108	80-120	1.318	10.4	20	
Silver	1.161	0.10	1.1	0	106	80-120	1.124	3.23	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307217
Project: COTA Fields, Add'l Sampling

QC BATCH REPORT

Batch ID: **17640** Instrument ID: **ICP2** Method: **SW6010B**

MS Sample ID: **1307217-01a ms** Units: **mg/L** Analysis Date: **7/11/2013 03:47 AM**
Client ID: **B-10 (0-2,2-4,4-6,6-8)** Run ID: **ICP2_130712A** SeqNo: **644754** Prep Date: **7/11/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.147	0.10	1.1	0.02145	102	75-125	0			
Barium	2.463	0.10	1.1	1.352	101	75-125	0			
Cadmium	1.134	0.10	1.1	0.00825	102	75-125	0			
Chromium	1.077	0.10	1.1	-0.00495	98.4	75-125	0			
Lead	1.311	0.10	1.1	0.03465	116	75-125	0			
Selenium	1.154	0.10	1.1	0.05995	99.5	75-125	0			
Silver	1.061	0.10	1.1	-0.03355	99.5	75-125	0			

MSD Sample ID: **1307217-01a msd** Units: **mg/L** Analysis Date: **7/11/2013 03:55 AM**
Client ID: **B-10 (0-2,2-4,4-6,6-8)** Run ID: **ICP2_130712A** SeqNo: **644755** Prep Date: **7/11/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.223	0.10	1.1	0.02145	109	75-125	1.147	6.36	20	
Barium	2.449	0.10	1.1	1.352	99.8	75-125	2.463	0.582	20	
Cadmium	1.191	0.10	1.1	0.00825	108	75-125	1.134	4.97	20	
Chromium	1.01	0.10	1.1	-0.00495	92.2	75-125	1.077	6.43	20	
Lead	1.334	0.10	1.1	0.03465	118	75-125	1.311	1.71	20	
Selenium	1.211	0.10	1.1	0.05995	105	75-125	1.154	4.79	20	
Silver	1.104	0.10	1.1	-0.03355	103	75-125	1.061	3.96	20	

The following samples were analyzed in this batch: 1307217-01a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 12-Jul-13

Client: Shaw - CB&I
Project: COTA Fields, Add'l Sampling
WorkOrder: **1307217**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/L	
mg/L	

ALS Environmental

Sample Receipt Checklist

Client Name: **CB&I-SHAW-CINCINNATI-5050** Date/Time Received: **10-Jul-13 00:00**

Work Order: **1307217** Received by: **JNW**

Checklist completed by: Shiloh Greenwald (eSignature) 10-Jul-13 (Date) Reviewed by: Rob Nieman (eSignature) 12-Jul-13 (Date)

Matrices:
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

24-Jul-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Fields; Project #144938.151 Work Order: **1307352**

Dear Kelly,

ALS Environmental received 2 samples on 17-Jul-2013 09:35 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ALS Environmental

Date: 24-Jul-13

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: **1307352**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307352-01	Composite-1	Soil		7/16/2013 13:00	7/17/2013 09:35	☐
1307352-02	Composite-2	Soil		7/16/2013 13:05	7/17/2013 09:35	☐

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1307352

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1307352
Sample ID: Composite-1
Lab ID: 1307352-01
Collection Date: 7/16/2013 01:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			**SW7470A**		Prep Date: **7/18/2013**	Analyst: **SLW**
Mercury	ND		0.50	µg/L	1	7/19/2013 06:54 PM
TCLP METALS BY ICP			**SW6010B**		Prep Date: **7/17/2013**	Analyst: **VAW**
Arsenic	ND		0.10	mg/L	5	7/18/2013 02:05 AM
Barium	**0.87**		**0.10**	**mg/L**	5	7/18/2013 02:05 AM
Cadmium	ND		0.10	mg/L	5	7/18/2013 02:05 AM
Chromium	ND		0.10	mg/L	5	7/18/2013 02:05 AM
Lead	ND		0.10	mg/L	5	7/18/2013 02:05 AM
Selenium	ND		0.10	mg/L	5	7/18/2013 02:05 AM
Silver	ND		0.10	mg/L	5	7/18/2013 02:05 AM
TCLP SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **7/19/2013**	Analyst: **JCL**
1,4-Dichlorobenzene	ND		0.040	mg/L	1	7/23/2013 02:22 PM
2,4,5-Trichlorophenol	ND		0.040	mg/L	1	7/23/2013 02:22 PM
2,4,6-Trichlorophenol	ND		0.040	mg/L	1	7/23/2013 02:22 PM
2,4-Dinitrotoluene	ND		0.040	mg/L	1	7/23/2013 02:22 PM
2-Methylphenol	ND		0.040	mg/L	1	7/23/2013 02:22 PM
3&4-Methylphenol	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Hexachloro-1,3-butadiene	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Hexachlorobenzene	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Hexachloroethane	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Nitrobenzene	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Pentachlorophenol	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Pyridine	ND		0.040	mg/L	1	7/23/2013 02:22 PM
Surr: 2,4,6-Tribromophenol	*99.1*		*60.3-121*	*%REC*	1	7/23/2013 02:22 PM
Surr: 2-Fluorobiphenyl	*75.1*		*54-107*	*%REC*	1	7/23/2013 02:22 PM
Surr: 2-Fluorophenol	*43.4*		*28-75*	*%REC*	1	7/23/2013 02:22 PM
Surr: 4-Terphenyl-d14	*78.2*		*60-110*	*%REC*	1	7/23/2013 02:22 PM
Surr: Nitrobenzene-d5	*83.1*		*49-98*	*%REC*	1	7/23/2013 02:22 PM
Surr: Phenol-d5	*34.0*		*20-69*	*%REC*	1	7/23/2013 02:22 PM
TCLP VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **7/17/2013**	Analyst: **LAK**
1,1-Dichloroethene	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
1,2-Dichloroethane	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
1,4-Dichlorobenzene	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
2-Butanone	**0.17**		**0.0050**	**mg/L**	1	7/18/2013 10:08 AM
Benzene	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
Carbon tetrachloride	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
Chlorobenzene	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
Chloroform	ND		0.0050	mg/L	1	7/18/2013 10:08 AM

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1307352
Sample ID: Composite-1
Lab ID: 1307352-01
Collection Date: 7/16/2013 01:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
Trichloroethene	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
Vinyl chloride	ND		0.0050	mg/L	1	7/18/2013 10:08 AM
Surr: Bromofluorobenzene	*92.5*		*61-131*	*%REC*	1	7/18/2013 10:08 AM
Surr: Dibromofluoromethane	*96.1*		*87-126*	*%REC*	1	7/18/2013 10:08 AM
Surr: Toluene-d8	*102*		*84-111*	*%REC*	1	7/18/2013 10:08 AM

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1307352
Sample ID: Composite-2 **Lab ID:** 1307352-02
Collection Date: 7/16/2013 01:05 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			**SW7470A**		Prep Date: **7/18/2013**	Analyst: **SLW**
Mercury	ND		0.50	µg/L	1	7/19/2013 07:00 PM
TCLP METALS BY ICP			**SW6010B**		Prep Date: **7/17/2013**	Analyst: **VAW**
Arsenic	ND		0.10	mg/L	5	7/18/2013 03:09 AM
Barium	**0.94**		**0.10**	**mg/L**	5	7/18/2013 03:09 AM
Cadmium	ND		0.10	mg/L	5	7/18/2013 03:09 AM
Chromium	ND		0.10	mg/L	5	7/18/2013 03:09 AM
Lead	ND		0.10	mg/L	5	7/18/2013 03:09 AM
Selenium	ND		0.10	mg/L	5	7/18/2013 03:09 AM
Silver	ND		0.10	mg/L	5	7/18/2013 03:09 AM
TCLP SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **7/19/2013**	Analyst: **JCL**
1,4-Dichlorobenzene	ND		0.040	mg/L	1	7/23/2013 02:56 PM
2,4,5-Trichlorophenol	ND		0.040	mg/L	1	7/23/2013 02:56 PM
2,4,6-Trichlorophenol	ND		0.040	mg/L	1	7/23/2013 02:56 PM
2,4-Dinitrotoluene	ND		0.040	mg/L	1	7/23/2013 02:56 PM
2-Methylphenol	ND		0.040	mg/L	1	7/23/2013 02:56 PM
3&4-Methylphenol	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Hexachloro-1,3-butadiene	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Hexachlorobenzene	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Hexachloroethane	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Nitrobenzene	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Pentachlorophenol	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Pyridine	ND		0.040	mg/L	1	7/23/2013 02:56 PM
Surr: 2,4,6-Tribromophenol	*100*		*60.3-121*	*%REC*	1	7/23/2013 02:56 PM
Surr: 2-Fluorobiphenyl	*77.7*		*54-107*	*%REC*	1	7/23/2013 02:56 PM
Surr: 2-Fluorophenol	*47.9*		*28-75*	*%REC*	1	7/23/2013 02:56 PM
Surr: 4-Terphenyl-d14	*77.9*		*60-110*	*%REC*	1	7/23/2013 02:56 PM
Surr: Nitrobenzene-d5	*91.6*		*49-98*	*%REC*	1	7/23/2013 02:56 PM
Surr: Phenol-d5	*42.4*		*20-69*	*%REC*	1	7/23/2013 02:56 PM
TCLP VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **7/17/2013**	Analyst: **LAK**
1,1-Dichloroethene	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
1,2-Dichloroethane	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
1,4-Dichlorobenzene	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
2-Butanone	**0.18**		**0.0050**	**mg/L**	1	7/18/2013 10:38 AM
Benzene	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
Carbon tetrachloride	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
Chlorobenzene	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
Chloroform	ND		0.0050	mg/L	1	7/18/2013 10:38 AM

Note:

ALS Environmental

Date: *24-Jul-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1307352
Sample ID: Composite-2
Lab ID: 1307352-02
Collection Date: 7/16/2013 01:05 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
Trichloroethene	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
Vinyl chloride	ND		0.0050	mg/L	1	7/18/2013 10:38 AM
Surr: Bromofluorobenzene	*92.1*		*61-131*	*%REC*	1	7/18/2013 10:38 AM
Surr: Dibromofluoromethane	*101*		*87-126*	*%REC*	1	7/18/2013 10:38 AM
Surr: Toluene-d8	*102*		*84-111*	*%REC*	1	7/18/2013 10:38 AM

Note:

ALS Environmental

Date: 24-Jul-13

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **17758** Instrument ID: **HG1** Method: **SW7470A**

MBLK Sample ID: **MBLK-17758-17758** Units: **µg/L** Analysis Date: **7/19/2013 06:44 PM**
Client ID: Run ID: **HG1_130719B** SeqNo: **647692** Prep Date: **7/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS Sample ID: **LCS-17758-17758** Units: **µg/L** Analysis Date: **7/19/2013 06:40 PM**
Client ID: Run ID: **HG1_130719B** SeqNo: **647690** Prep Date: **7/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.2	0.50	5	0	104	80-120	0			

LCSD Sample ID: **LCSD-17758-17758** Units: **µg/L** Analysis Date: **7/19/2013 06:42 PM**
Client ID: Run ID: **HG1_130719B** SeqNo: **647691** Prep Date: **7/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.75	0.50	5	0	95	80-120	5.2	9.05	20	

MS Sample ID: **1307352-02A MS** Units: **µg/L** Analysis Date: **7/19/2013 07:03 PM**
Client ID: **Composite-2** Run ID: **HG1_130719B** SeqNo: **647699** Prep Date: **7/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.3	0.50	5	-0.05	107	75-125	0			

MSD Sample ID: **1307352-02A MSD** Units: **µg/L** Analysis Date: **7/19/2013 07:05 PM**
Client ID: **Composite-2** Run ID: **HG1_130719B** SeqNo: **647700** Prep Date: **7/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.27	0.50	5	-0.05	106	75-125	5.3	0.568	20	

The following samples were analyzed in this batch: 1307352-01A 1307352-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **17710** Instrument ID: **ICP2** Method: **SW6010B**

MBLK Sample ID: **mblk-17710-17710** Units: **mg/L** Analysis Date: **7/18/2013 01:43 AM**
Client ID: Run ID: **ICP2_130718A** SeqNo: **647246** Prep Date: **7/17/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.10	0	0.01815	0		0			
Barium	ND	0.10	0	0.0088	0		0			
Cadmium	ND	0.10	0	0.0044	0		0			
Chromium	ND	0.10	0	-0.02145	0		0			
Lead	ND	0.10	0	-0.00055	0		0			
Selenium	ND	0.10	0	-0.022	0		0			
Silver	ND	0.10	0	-0.1133	0		0			

LCS Sample ID: **lcs-17710-17710** Units: **mg/L** Analysis Date: **7/18/2013 01:50 AM**
Client ID: Run ID: **ICP2_130718A** SeqNo: **647247** Prep Date: **7/17/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.14	0.10	1.1	0	104	80-120	1.14	0	20	
Barium	1.153	0.10	1.1	0	105	80-120	1.153	0	20	
Cadmium	1.135	0.10	1.1	0	103	80-120	1.135	0	20	
Chromium	1.006	0.10	1.1	0	91.5	80-120	1.006	0	20	
Lead	1.063	0.10	1.1	0	96.6	80-120	1.063	0	20	
Selenium	1.155	0.10	1.1	0	105	80-120	1.155	0	20	
Silver	1.122	0.10	1.1	0	102	80-120	1.122	0	20	

LCSD Sample ID: **lcsd-17710-17710** Units: **mg/L** Analysis Date: **7/18/2013 01:58 AM**
Client ID: Run ID: **ICP2_130718A** SeqNo: **647248** Prep Date: **7/17/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.222	0.10	1.1	0	111	80-120	1.14	6.89	20	
Barium	1.198	0.10	1.1	0	109	80-120	1.153	3.84	20	
Cadmium	1.228	0.10	1.1	0	112	80-120	1.135	7.82	20	
Chromium	1.302	0.10	1.1	0	118	80-120	1.006	25.6	20	R
Lead	1.153	0.10	1.1	0	105	80-120	1.063	8.14	20	
Selenium	1.228	0.10	1.1	0	112	80-120	1.155	6.14	20	
Silver	1.118	0.10	1.1	0	102	80-120	1.122	0.393	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **17710** Instrument ID: **ICP2** Method: **SW6010B**

MS Sample ID: **1307352-01a ms** Units: **mg/L** Analysis Date: **7/18/2013 02:12 AM**
Client ID: **Composite-1** Run ID: **ICP2_130718A** SeqNo: **647250** Prep Date: **7/17/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.174	0.10	1.1	0.02145	105	75-125	0			
Barium	1.893	0.10	1.1	0.8662	93.4	75-125	0			
Cadmium	1.128	0.10	1.1	0.0066	102	75-125	0			
Chromium	1.096	0.10	1.1	-0.02365	102	75-125	0			
Lead	1.071	0.10	1.1	0.03025	94.6	75-125	0			
Selenium	1.198	0.10	1.1	0.00495	108	75-125	0			
Silver	1.069	0.10	1.1	-0.1221	108	75-125	0			

MSD Sample ID: **1307352-01a msd** Units: **mg/L** Analysis Date: **7/18/2013 03:03 AM**
Client ID: **Composite-1** Run ID: **ICP2_130718A** SeqNo: **647251** Prep Date: **7/17/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.169	0.10	1.1	0.02145	104	75-125	1.174	0.422	20	
Barium	1.876	0.10	1.1	0.8662	91.8	75-125	1.893	0.905	20	
Cadmium	1.103	0.10	1.1	0.0066	99.7	75-125	1.128	2.17	20	
Chromium	1.083	0.10	1.1	-0.02365	101	75-125	1.096	1.16	20	
Lead	1.075	0.10	1.1	0.03025	95	75-125	1.071	0.308	20	
Selenium	1.182	0.10	1.1	0.00495	107	75-125	1.198	1.34	20	
Silver	1.017	0.10	1.1	-0.1221	104	75-125	1.069	5.01	20	

The following samples were analyzed in this batch: 1307352-01a 1307352-02a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **17782** Instrument ID: **SVMS2** Method: **SW8270C**

MBLK Sample ID: **mblk-17782-17782** Units: **mg/L** Analysis Date: **7/23/2013 12:43 PM**
Client ID: Run ID: **SVMS2_130723A** SeqNo: **650501** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	ND	0.010								
2,4,5-Trichlorophenol	ND	0.010								
2,4,6-Trichlorophenol	ND	0.010								
2,4-Dinitrotoluene	ND	0.010								
2-Methylphenol	ND	0.010								
3&4-Methylphenol	ND	0.010								
Hexachloro-1,3-butadiene	ND	0.010								
Hexachlorobenzene	ND	0.010								
Hexachloroethane	ND	0.010								
Nitrobenzene	ND	0.010								
Pentachlorophenol	ND	0.010								
Pyridine	ND	0.010								
Surr: 2,4,6-Tribromophenol	0.09311	0	*0.1*	0	*93.1*	*55-107*	0			
Surr: 2-Fluorobiphenyl	0.03382	0	*0.05*	0	*67.6*	*54-107*	0			
Surr: 2-Fluorophenol	0.05013	0	*0.1*	0	*50.1*	*28-75*	0			
Surr: 4-Terphenyl-d14	0.04009	0	*0.05*	0	*80.2*	*60-110*	0			
Surr: Nitrobenzene-d5	0.046	0	*0.05*	0	*92*	*49-98*	0			
Surr: Phenol-d5	0.03768	0	*0.1*	0	*37.7*	*20-69*	0			

LCS Sample ID: **lcs-17782-17782** Units: **mg/L** Analysis Date: **7/23/2013 01:16 PM**
Client ID: Run ID: **SVMS2_130723A** SeqNo: **650502** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.04321	0.010	0.1	0	43.2	31-103	0			
2,4,5-Trichlorophenol	0.07032	0.010	0.1	0	70.3	43-123	0			
2,4,6-Trichlorophenol	0.07512	0.010	0.1	0	75.1	37-118	0			
2,4-Dinitrotoluene	0.07648	0.010	0.1	0	76.5	16-143	0			
2-Methylphenol	0.07996	0.010	0.1	0	80	41-107	0			
3&4-Methylphenol	0.1388	0.010	0.2	0	69.4	21-119	0			
Hexachloro-1,3-butadiene	0.04005	0.010	0.1	0	40	27.8-76.8	0			
Hexachlorobenzene	0.08395	0.010	0.1	0	84	48-126	0			
Hexachloroethane	0.04041	0.010	0.1	0	40.4	24-99	0			
Nitrobenzene	0.08045	0.010	0.1	0	80.4	44-109	0			
Pentachlorophenol	0.1149	0.010	0.1	0	115	22-137	0			
Pyridine	0.02783	0.010	0.1	0	27.8	17-89	0			
Surr: 2,4,6-Tribromophenol	0.1003	0	*0.1*	0	*100*	*59.6-124*	0			
Surr: 2-Fluorobiphenyl	0.02808	0	*0.05*	0	*56.2*	*54-107*	0			
Surr: 2-Fluorophenol	0.04985	0	*0.1*	0	*49.8*	*28-75*	0			
Surr: 4-Terphenyl-d14	0.04532	0	*0.05*	0	*90.6*	*60-110*	0			
Surr: Nitrobenzene-d5	0.04074	0	*0.05*	0	*81.5*	*49-98*	0			
Surr: Phenol-d5	0.03707	0	*0.1*	0	*37.1*	*20-69*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **17782** Instrument ID: **SVMS2** Method: **SW8270C**

MS Sample ID: **1307352-01AMS** Units: **mg/L** Analysis Date: **7/23/2013 01:49 PM**
Client ID: **Composite-1** Run ID: **SVMS2_130723A** SeqNo: **650504** Prep Date: **7/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.2067	0.040	0.4	0	51.7	31-103	0			
2,4,5-Trichlorophenol	0.2989	0.040	0.4	0	74.7	43-123	0			
2,4,6-Trichlorophenol	0.3182	0.040	0.4	0	79.6	37-118	0			
2,4-Dinitrotoluene	0.3246	0.040	0.4	0	81.2	16-143	0			
2-Methylphenol	0.2603	0.040	0.4	0	65.1	41-107	0			
3&4-Methylphenol	0.4983	0.040	0.8	0	62.3	21-119	0			
Hexachloro-1,3-butadiene	0.1656	0.040	0.4	0	41.4	36-103	0			
Hexachlorobenzene	0.3312	0.040	0.4	0	82.8	48-126	0			
Hexachloroethane	0.1847	0.040	0.4	0	46.2	24-99	0			
Nitrobenzene	0.2657	0.040	0.4	0	66.4	44-109	0			
Pentachlorophenol	0.4801	0.040	0.4	0	120	22-137	0			
Pyridine	0.1316	0.040	0.4	0	32.9	17-89	0			
Surr: 2,4,6-Tribromophenol	0.4049	0	*0.4*	0	*101*	*42.7-139*	0			
Surr: 2-Fluorobiphenyl	0.1114	0	*0.2*	0	*55.7*	*54-107*	0			
Surr: 2-Fluorophenol	0.2038	0	*0.4*	0	*51*	*28-75*	0			
Surr: 4-Terphenyl-d14	0.1739	0	*0.2*	0	*87*	*60-110*	0			
Surr: Nitrobenzene-d5	0.1286	0	*0.2*	0	*64.3*	*49-98*	0			
Surr: Phenol-d5	0.1665	0	*0.4*	0	*41.6*	*20-69*	0			

The following samples were analyzed in this batch: 1307352-01A 1307352-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **R100676** Instrument ID: **VMS1** Method: **SW8260**

MBLK Sample ID: **MBLKtclp-R100676** Units: **mg/L** Analysis Date: **7/18/2013 09:08 AM**
Client ID: Run ID: **VMS1_130718A** SeqNo: **647099** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	0.0050								
1,2-Dichloroethane	ND	0.0050								
1,4-Dichlorobenzene	ND	0.0050								
2-Butanone	ND	0.0050								
Benzene	ND	0.0050								
Carbon tetrachloride	ND	0.0050								
Chlorobenzene	ND	0.0050								
Chloroform	ND	0.0050								
Tetrachloroethene	ND	0.0050								
Trichloroethene	ND	0.0050								
Vinyl chloride	ND	0.0050								
Surr: Bromofluorobenzene	0.04485	0	*0.05*	0	*89.7*	*70-130*	0			
Surr: Dibromofluoromethane	0.05218	0	*0.05*	0	*104*	*70-130*	0			
Surr: Toluene-d8	0.04985	0	*0.05*	0	*99.7*	*70-130*	0			

LCS Sample ID: **LCS-R100676** Units: **mg/L** Analysis Date: **7/18/2013 08:37 AM**
Client ID: Run ID: **VMS1_130718A** SeqNo: **647098** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04	0.0050	0.05	0	80	61.8-129	0			
1,2-Dichloroethane	0.03958	0.0050	0.05	0	79.2	70.8-122	0			
1,4-Dichlorobenzene	0.03717	0.0050	0.05	0	74.3	64.3-111	0			
2-Butanone	0.04346	0.0050	0.05	0	86.9	67.6-156	0			
Benzene	0.03962	0.0050	0.05	0	79.2	71.6-117	0			
Carbon tetrachloride	0.0425	0.0050	0.05	0	85	63.1-133	0			
Chlorobenzene	0.03939	0.0050	0.05	0	78.8	67.2-112	0			
Chloroform	0.04092	0.0050	0.05	0	81.8	63.9-128	0			
Tetrachloroethene	0.03804	0.0050	0.05	0	76.1	62.4-120	0			
Trichloroethene	0.04148	0.0050	0.05	0	83	68.9-121	0			
Vinyl chloride	0.0657	0.0050	0.05	0	131	38.6-150	0			
Surr: Bromofluorobenzene	0.04679	0	*0.05*	0	*93.6*	*61-131*	0			
Surr: Dibromofluoromethane	0.05083	0	*0.05*	0	*102*	*87-126*	0			
Surr: Toluene-d8	0.04967	0	*0.05*	0	*99.3*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1307352
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **R100676** Instrument ID: **VMS1** Method: **SW8260**

MS Sample ID: **1307265-01A MS** Units: **mg/L** Analysis Date: **7/18/2013 11:19 AM**
Client ID: Run ID: **VMS1_130718A** SeqNo: **647103** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.0413	0.0050	0.05	0	82.6	61-134	0			
1,2-Dichloroethane	0.04443	0.0050	0.05	0	88.9	74.3-124	0			
1,4-Dichlorobenzene	0.03832	0.0050	0.05	0	76.6	63.3-109	0			
2-Butanone	0.06668	0.0050	0.05	0.00175	130	77.4-165	0			
Benzene	0.04204	0.0050	0.05	0	84.1	69.5-120	0			
Carbon tetrachloride	0.04553	0.0050	0.05	0	91.1	66.8-129	0			
Chlorobenzene	0.04143	0.0050	0.05	0	82.9	69.6-112	0			
Chloroform	0.04326	0.0050	0.05	0	86.5	66.3-127	0			
Tetrachloroethene	0.0425	0.0050	0.05	0.00241	80.2	62.9-125	0			
Trichloroethene	0.0434	0.0050	0.05	0	86.8	68.6-124	0			
Vinyl chloride	0.04892	0.0050	0.05	0	97.8	38-145	0			
Surr: Bromofluorobenzene	0.04781	0	*0.05*	0	*95.6*	*61-131*	0			
Surr: Dibromofluoromethane	0.05182	0	*0.05*	0	*104*	*87-126*	0			
Surr: Toluene-d8	0.05032	0	*0.05*	0	*101*	*84-111*	0			

The following samples were analyzed in this batch: 1307352-01A 1307352-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 24-Jul-13

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
WorkOrder: **1307352**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/L	
mg/L	

ALS Environmental

Sample Receipt Checklist

Client Name: **CB&I-SHAW-CINCINNATI-5050** Date/Time Received: **17-Jul-13 09:35**

Work Order: **1307352** Received by: **SEG**

Checklist completed by: Shiloh Greenwald 17-Jul-13 (eSignature / Date) Reviewed by: Chris Gibson 17-Jul-13 (eSignature / Date)

Matrices:
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.3		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

19-Sep-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Fields; Project #144938.151 Work Order: **1309324**

Dear Kelly,

ALS Environmental received 3 samples on 17-Sep-2013 05:25 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 35.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: **1309324**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1309324-01	OSR2-1	Soil		9/17/2013 14:25	9/17/2013 17:25	☐
1309324-02	OSR2-2	Soil		9/17/2013 14:26	9/17/2013 17:25	☐
1309324-03	OSR2-3	Soil		9/17/2013 14:30	9/17/2013 17:25	☐

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-1 **Lab ID:** 1309324-01
Collection Date: 9/17/2013 02:25 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1248	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**61**		**0.010**	**% of sample**	1	9/18/2013
MERCURY BY CVAA			**SW7471A**		Prep Date: **9/18/2013**	Analyst: **SLW**
Mercury	ND		0.27	mg/Kg	1	9/19/2013 07:01 AM
METALS BY ICP			**SW6010B**		Prep Date: **9/18/2013**	Analyst: **VAW**
Arsenic	**31**		**4.9**	**mg/Kg**	1	9/18/2013 11:10 AM
Barium	**81**		**9.9**	**mg/Kg**	1	9/18/2013 11:10 AM
Cadmium	ND		0.99	mg/Kg	1	9/18/2013 11:10 AM
Chromium	**12**		**4.9**	**mg/Kg**	1	9/18/2013 11:10 AM
Lead	**43**		**4.9**	**mg/Kg**	1	9/18/2013 11:10 AM
Selenium	ND		3.0	mg/Kg	1	9/18/2013 11:10 AM
Silver	ND		0.99	mg/Kg	1	9/18/2013 11:10 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/18/2013**	Analyst: **JCL**
1,2,4,5-Tetrachlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1,2,4-Trichlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1,2-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1,3-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1,3-Dinitrobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1,4-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
1-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,3,4,6-Tetrachlorophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,4,5-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,4,6-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,4-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,4-Dimethylphenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,4-Dinitrophenol	ND		1,700	µg/Kg	1	9/18/2013 01:54 PM
2,4-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,6-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2,6-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 01:54 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-1 **Lab ID:** 1309324-01
Collection Date: 9/17/2013 02:25 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Acetylaminofluorene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Chloronaphthalene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Chlorophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Methylphenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Nitroaniline	ND		1,700	µg/Kg	1	9/18/2013 01:54 PM
2-Nitrophenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
2-Picoline	ND		330	µg/Kg	1	9/18/2013 01:54 PM
3&4-Methylphenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
3,3`-Dichlorobenzidine	ND		660	µg/Kg	1	9/18/2013 01:54 PM
3-Methylcholanthrene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
3-Nitroaniline	ND		1,700	µg/Kg	1	9/18/2013 01:54 PM
4,6-Dinitro-2-methylphenol	ND		1,700	µg/Kg	1	9/18/2013 01:54 PM
4-Aminobiphenyl	ND		660	µg/Kg	1	9/18/2013 01:54 PM
4-Bromophenyl phenyl ether	ND		330	µg/Kg	1	9/18/2013 01:54 PM
4-Chloro-3-methylphenol	ND		660	µg/Kg	1	9/18/2013 01:54 PM
4-Chloroaniline	ND		660	µg/Kg	1	9/18/2013 01:54 PM
4-Chlorophenyl phenyl ether	ND		330	µg/Kg	1	9/18/2013 01:54 PM
4-Nitroaniline	ND		660	µg/Kg	1	9/18/2013 01:54 PM
4-Nitrophenol	ND		1,700	µg/Kg	1	9/18/2013 01:54 PM
4-Nitroquinoline 1-oxide	ND		330	µg/Kg	1	9/18/2013 01:54 PM
5-Nitro-o-toluidine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
7,12-Dimethylbenz(a)anthracene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Acenaphthene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Acenaphthylene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Acetophenone	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Aniline	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Anthracene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Azobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzidine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzo(a)anthracene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzo(a)pyrene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzo(b)fluoranthene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzo(g,h,i)perylene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzo(k)fluoranthene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Benzyl alcohol	ND		660	µg/Kg	1	9/18/2013 01:54 PM
Bis(2-chloroethoxy)methane	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Bis(2-chloroethyl)ether	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Bis(2-chloroisopropyl)ether	ND		330	µg/Kg	1	9/18/2013 01:54 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324
Sample ID: OSR2-1
Lab ID: 1309324-01
Collection Date: 9/17/2013 02:25 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-ethylhexyl)phthalate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Butyl benzyl phthalate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Carbazole	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Chrysene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Dibenzo(a,h)anthracene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Dibenzofuran	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Diethyl phthalate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Dimethyl phthalate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Di-n-butyl phthalate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Di-n-octyl phthalate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Dinoseb	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Diphenylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Ethyl methanesulfonate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Fluoranthene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Fluorene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Hexachlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Hexachlorobutadiene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Hexachlorocyclopentadiene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Hexachloroethane	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Indeno(1,2,3-cd)pyrene	ND		150	µg/Kg	1	9/18/2013 01:54 PM
Isophorone	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Isosafrole	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Methapyrilene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Methyl methanesulfonate	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Naphthalene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Nitrobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosodiethylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosodimethylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitroso-di-n-butylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosodi-n-propylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosomethylethylamine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosomorpholine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosopiperidine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
N-Nitrosopyrrolidine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
o-Toluidine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
p-Dimethylaminoazobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Pentachlorobenzene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Pentachloroethane	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Pentachloronitrobenzene	ND		660	µg/Kg	1	9/18/2013 01:54 PM
Pentachlorophenol	ND		1,700	µg/Kg	1	9/18/2013 01:54 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-1 **Lab ID:** 1309324-01
Collection Date: 9/17/2013 02:25 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenacetin	ND		660	µg/Kg	1	9/18/2013 01:54 PM
Phenanthrene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Phenol	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Pyrene	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Pyridine	ND		330	µg/Kg	1	9/18/2013 01:54 PM
Safrole	ND		330	µg/Kg	1	9/18/2013 01:54 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,1,1-Trichloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,1,2-Trichloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,1-Dichloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,1-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,1-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2,3-Trichloropropane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2-Dibromoethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2-Dichloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,2-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,3-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,3-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
1,4-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
2,2-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
2-Butanone	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
2-Chlorotoluene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
2-Hexanone	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
4-Chlorotoluene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
4-Methyl-2-pentanone	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Acetone	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Benzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Bromobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Bromochloromethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Bromodichloromethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Bromoform	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Bromomethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324
Sample ID: OSR2-1
Lab ID: 1309324-01
Collection Date: 9/17/2013 02:25 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon disulfide	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Carbon tetrachloride	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Chlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Chloroethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Chloroform	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Chloromethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
cis-1,2-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
cis-1,3-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Dibromochloromethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Dibromomethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Dichlorodifluoromethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Ethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Hexachlorobutadiene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Isopropylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
m,p-Xylene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Methyl tert-butyl ether	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Methylene chloride	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Naphthalene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
n-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
n-Propylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
o-Xylene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
p-Isopropyltoluene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
sec-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Styrene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
tert-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Tetrachloroethene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Toluene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
trans-1,2-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
trans-1,3-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Trichloroethene	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Trichlorofluoromethane	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Vinyl chloride	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM
Xylenes, Total	ND		5.0	µg/Kg	1	9/18/2013 10:56 AM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-2 **Lab ID:** 1309324-02
Collection Date: 9/17/2013 02:26 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1248	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**5.0**		**0.010**	**% of sample**	1	9/18/2013
MERCURY BY CVAA			**SW7471A**		Prep Date: **9/18/2013**	Analyst: **SLW**
Mercury	ND		0.28	mg/Kg	1	9/19/2013 07:03 AM
METALS BY ICP			**SW6010B**		Prep Date: **9/18/2013**	Analyst: **VAW**
Arsenic	**37**		**5.0**	**mg/Kg**	1	9/18/2013 11:17 AM
Barium	**72**		**9.9**	**mg/Kg**	1	9/18/2013 11:17 AM
Cadmium	ND		0.99	mg/Kg	1	9/18/2013 11:17 AM
Chromium	**14**		**5.0**	**mg/Kg**	1	9/18/2013 11:17 AM
Lead	**22**		**5.0**	**mg/Kg**	1	9/18/2013 11:17 AM
Selenium	ND		3.0	mg/Kg	1	9/18/2013 11:17 AM
Silver	ND		0.99	mg/Kg	1	9/18/2013 11:17 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/18/2013**	Analyst: **JCL**
1,2,4,5-Tetrachlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1,2,4-Trichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1,2-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1,3-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1,3-Dinitrobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1,4-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
1-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,3,4,6-Tetrachlorophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,4,5-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,4,6-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,4-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,4-Dimethylphenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,4-Dinitrophenol	ND		1,600	µg/Kg	1	9/18/2013 02:27 PM
2,4-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,6-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2,6-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 02:27 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-2 **Lab ID:** 1309324-02
Collection Date: 9/17/2013 02:26 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Acetylaminofluorene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Chloronaphthalene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Chlorophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Methylphenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Nitroaniline	ND		1,600	µg/Kg	1	9/18/2013 02:27 PM
2-Nitrophenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
2-Picoline	ND		330	µg/Kg	1	9/18/2013 02:27 PM
3&4-Methylphenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
3,3`-Dichlorobenzidine	ND		660	µg/Kg	1	9/18/2013 02:27 PM
3-Methylcholanthrene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
3-Nitroaniline	ND		1,600	µg/Kg	1	9/18/2013 02:27 PM
4,6-Dinitro-2-methylphenol	ND		1,600	µg/Kg	1	9/18/2013 02:27 PM
4-Aminobiphenyl	ND		660	µg/Kg	1	9/18/2013 02:27 PM
4-Bromophenyl phenyl ether	ND		330	µg/Kg	1	9/18/2013 02:27 PM
4-Chloro-3-methylphenol	ND		660	µg/Kg	1	9/18/2013 02:27 PM
4-Chloroaniline	ND		660	µg/Kg	1	9/18/2013 02:27 PM
4-Chlorophenyl phenyl ether	ND		330	µg/Kg	1	9/18/2013 02:27 PM
4-Nitroaniline	ND		660	µg/Kg	1	9/18/2013 02:27 PM
4-Nitrophenol	ND		1,600	µg/Kg	1	9/18/2013 02:27 PM
4-Nitroquinoline 1-oxide	ND		330	µg/Kg	1	9/18/2013 02:27 PM
5-Nitro-o-toluidine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
7,12-Dimethylbenz(a)anthracene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Acenaphthene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Acenaphthylene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Acetophenone	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Aniline	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Anthracene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Azobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzidine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzo(a)anthracene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzo(a)pyrene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzo(b)fluoranthene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzo(g,h,i)perylene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzo(k)fluoranthene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Benzyl alcohol	ND		660	µg/Kg	1	9/18/2013 02:27 PM
Bis(2-chloroethoxy)methane	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Bis(2-chloroethyl)ether	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Bis(2-chloroisopropyl)ether	ND		330	µg/Kg	1	9/18/2013 02:27 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324
Sample ID: OSR2-2
Lab ID: 1309324-02
Collection Date: 9/17/2013 02:26 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-ethylhexyl)phthalate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Butyl benzyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Carbazole	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Chrysene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Dibenzo(a,h)anthracene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Dibenzofuran	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Diethyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Dimethyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Di-n-butyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Di-n-octyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Dinoseb	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Diphenylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Ethyl methanesulfonate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Fluoranthene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Fluorene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Hexachlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Hexachlorobutadiene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Hexachlorocyclopentadiene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Hexachloroethane	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Indeno(1,2,3-cd)pyrene	ND		150	µg/Kg	1	9/18/2013 02:27 PM
Isophorone	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Isosafrole	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Methapyrilene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Methyl methanesulfonate	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Naphthalene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Nitrobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosodiethylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosodimethylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitroso-di-n-butylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosodi-n-propylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosomethylethylamine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosomorpholine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosopiperidine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
N-Nitrosopyrrolidine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
o-Toluidine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
p-Dimethylaminoazobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Pentachlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Pentachloroethane	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Pentachloronitrobenzene	ND		660	µg/Kg	1	9/18/2013 02:27 PM
Pentachlorophenol	ND		1,600	µg/Kg	1	9/18/2013 02:27 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-2 **Lab ID:** 1309324-02
Collection Date: 9/17/2013 02:26 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenacetin	ND		660	µg/Kg	1	9/18/2013 02:27 PM
Phenanthrene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Phenol	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Pyrene	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Pyridine	ND		330	µg/Kg	1	9/18/2013 02:27 PM
Safrole	ND		330	µg/Kg	1	9/18/2013 02:27 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,1,1-Trichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,1,2-Trichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,1-Dichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,1-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,1-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2,3-Trichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2-Dibromoethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2-Dichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,2-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,3-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,3-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
1,4-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
2,2-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
2-Butanone	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
2-Chlorotoluene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
2-Hexanone	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
4-Chlorotoluene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
4-Methyl-2-pentanone	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Acetone	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Benzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Bromobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Bromochloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Bromodichloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Bromoform	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Bromomethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324
Sample ID: OSR2-2
Lab ID: 1309324-02
Collection Date: 9/17/2013 02:26 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon disulfide	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Carbon tetrachloride	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Chlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Chloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Chloroform	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Chloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
cis-1,2-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
cis-1,3-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Dibromochloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Dibromomethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Dichlorodifluoromethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Ethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Hexachlorobutadiene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Isopropylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
m,p-Xylene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Methyl tert-butyl ether	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Methylene chloride	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Naphthalene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
n-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
n-Propylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
o-Xylene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
p-Isopropyltoluene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
sec-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Styrene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
tert-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Tetrachloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Toluene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
trans-1,2-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
trans-1,3-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Trichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Trichlorofluoromethane	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Vinyl chloride	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM
Xylenes, Total	ND		5.0	µg/Kg	1	9/18/2013 11:27 AM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-3 **Lab ID:** 1309324-03
Collection Date: 9/17/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1248	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**17**		**0.010**	**% of sample**	1	9/18/2013
MERCURY BY CVAA			**SW7471A**		Prep Date: **9/18/2013**	Analyst: **SLW**
Mercury	ND		0.29	mg/Kg	1	9/19/2013 07:05 AM
METALS BY ICP			**SW6010B**		Prep Date: **9/18/2013**	Analyst: **VAW**
Arsenic	**32**		**4.9**	**mg/Kg**	1	9/18/2013 11:23 AM
Barium	**71**		**9.9**	**mg/Kg**	1	9/18/2013 11:23 AM
Cadmium	ND		0.99	mg/Kg	1	9/18/2013 11:23 AM
Chromium	**11**		**4.9**	**mg/Kg**	1	9/18/2013 11:23 AM
Lead	**30**		**4.9**	**mg/Kg**	1	9/18/2013 11:23 AM
Selenium	ND		3.0	mg/Kg	1	9/18/2013 11:23 AM
Silver	ND		0.99	mg/Kg	1	9/18/2013 11:23 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/18/2013**	Analyst: **JCL**
1,2,4,5-Tetrachlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1,2,4-Trichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1,2-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1,3-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1,3-Dinitrobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1,4-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
1-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,3,4,6-Tetrachlorophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,4,5-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,4,6-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,4-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,4-Dimethylphenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,4-Dinitrophenol	ND		1,700	µg/Kg	1	9/18/2013 02:59 PM
2,4-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,6-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2,6-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 02:59 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-3 **Lab ID:** 1309324-03
Collection Date: 9/17/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Acetylaminofluorene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Chloronaphthalene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Chlorophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Methylphenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Nitroaniline	ND		1,700	µg/Kg	1	9/18/2013 02:59 PM
2-Nitrophenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
2-Picoline	ND		330	µg/Kg	1	9/18/2013 02:59 PM
3&4-Methylphenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
3,3`-Dichlorobenzidine	ND		660	µg/Kg	1	9/18/2013 02:59 PM
3-Methylcholanthrene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
3-Nitroaniline	ND		1,700	µg/Kg	1	9/18/2013 02:59 PM
4,6-Dinitro-2-methylphenol	ND		1,700	µg/Kg	1	9/18/2013 02:59 PM
4-Aminobiphenyl	ND		660	µg/Kg	1	9/18/2013 02:59 PM
4-Bromophenyl phenyl ether	ND		330	µg/Kg	1	9/18/2013 02:59 PM
4-Chloro-3-methylphenol	ND		660	µg/Kg	1	9/18/2013 02:59 PM
4-Chloroaniline	ND		660	µg/Kg	1	9/18/2013 02:59 PM
4-Chlorophenyl phenyl ether	ND		330	µg/Kg	1	9/18/2013 02:59 PM
4-Nitroaniline	ND		660	µg/Kg	1	9/18/2013 02:59 PM
4-Nitrophenol	ND		1,700	µg/Kg	1	9/18/2013 02:59 PM
4-Nitroquinoline 1-oxide	ND		330	µg/Kg	1	9/18/2013 02:59 PM
5-Nitro-o-toluidine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
7,12-Dimethylbenz(a)anthracene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Acenaphthene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Acenaphthylene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Acetophenone	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Aniline	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Anthracene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Azobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzidine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzo(a)anthracene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzo(a)pyrene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzo(b)fluoranthene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzo(g,h,i)perylene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzo(k)fluoranthene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Benzyl alcohol	ND		660	µg/Kg	1	9/18/2013 02:59 PM
Bis(2-chloroethoxy)methane	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Bis(2-chloroethyl)ether	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Bis(2-chloroisopropyl)ether	ND		330	µg/Kg	1	9/18/2013 02:59 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324
Sample ID: OSR2-3
Lab ID: 1309324-03
Collection Date: 9/17/2013 02:30 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-ethylhexyl)phthalate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Butyl benzyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Carbazole	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Chrysene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Dibenzo(a,h)anthracene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Dibenzofuran	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Diethyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Dimethyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Di-n-butyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Di-n-octyl phthalate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Dinoseb	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Diphenylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Ethyl methanesulfonate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Fluoranthene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Fluorene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Hexachlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Hexachlorobutadiene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Hexachlorocyclopentadiene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Hexachloroethane	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Indeno(1,2,3-cd)pyrene	ND		150	µg/Kg	1	9/18/2013 02:59 PM
Isophorone	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Isosafrole	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Methapyrilene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Methyl methanesulfonate	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Naphthalene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Nitrobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosodiethylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosodimethylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitroso-di-n-butylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosodi-n-propylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosomethylethylamine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosomorpholine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosopiperidine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
N-Nitrosopyrrolidine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
o-Toluidine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
p-Dimethylaminoazobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Pentachlorobenzene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Pentachloroethane	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Pentachloronitrobenzene	ND		660	µg/Kg	1	9/18/2013 02:59 PM
Pentachlorophenol	ND		1,700	µg/Kg	1	9/18/2013 02:59 PM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151 **Work Order:** 1309324
Sample ID: OSR2-3 **Lab ID:** 1309324-03
Collection Date: 9/17/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenacetin	ND		660	µg/Kg	1	9/18/2013 02:59 PM
Phenanthrene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Phenol	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Pyrene	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Pyridine	ND		330	µg/Kg	1	9/18/2013 02:59 PM
Safrole	ND		330	µg/Kg	1	9/18/2013 02:59 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,1,1-Trichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,1,2-Trichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,1-Dichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,1-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,1-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2,3-Trichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2-Dibromoethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2-Dichloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,2-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,3-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,3-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
1,4-Dichlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
2,2-Dichloropropane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
2-Butanone	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
2-Chlorotoluene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
2-Hexanone	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
4-Chlorotoluene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
4-Methyl-2-pentanone	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Acetone	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Benzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Bromobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Bromochloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Bromodichloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Bromoform	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Bromomethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
Work Order: 1309324
Sample ID: OSR2-3
Lab ID: 1309324-03
Collection Date: 9/17/2013 02:30 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon disulfide	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Carbon tetrachloride	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Chlorobenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Chloroethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Chloroform	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Chloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
cis-1,2-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
cis-1,3-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Dibromochloromethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Dibromomethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Dichlorodifluoromethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Ethylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Hexachlorobutadiene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Isopropylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
m,p-Xylene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Methyl tert-butyl ether	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Methylene chloride	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Naphthalene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
n-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
n-Propylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
o-Xylene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
p-Isopropyltoluene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
sec-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Styrene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
tert-Butylbenzene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Tetrachloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Toluene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
trans-1,2-Dichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
trans-1,3-Dichloropropene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Trichloroethene	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Trichlorofluoromethane	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Vinyl chloride	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM
Xylenes, Total	ND		5.0	µg/Kg	1	9/18/2013 11:58 AM

Note:

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18659** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-18659-18659** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: Run ID: **GC9_130918A** SeqNo: **679055** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0834	0	*0.1*	0	*83.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0986	0	*0.1*	0	*98.6*	*34-145*	0			

LCS Sample ID **LCS-18659-18659** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: Run ID: **GC9_130918A** SeqNo: **679056** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.632	0.10	2	0	81.6	50-133	0			
Surr: Decachlorobiphenyl	0.0854	0	*0.1*	0	*85.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0998	0	*0.1*	0	*99.8*	*34-145*	0			

MS Sample ID **1309324-02BMS** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: **OSR2-2** Run ID: **GC9_130918A** SeqNo: **679059** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.839	0.10	2.024	0	90.9	31-150	0			
Surr: Decachlorobiphenyl	0.08522	0	*0.1012*	0	*84.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.09676	0	*0.1012*	0	*95.6*	*34-145*	0			

MSD Sample ID **1309324-02BMSD** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: **OSR2-2** Run ID: **GC9_130918A** SeqNo: **679060** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.819	0.10	2.008	0	90.6	31-150	1.839	1.1	53	
Surr: Decachlorobiphenyl	0.08394	0	*0.1004*	0	*83.6*	*22-156*	0.08522	*1.52*		
Surr: Tetrachloro-m-xylene	0.09458	0	*0.1004*	0	*94.2*	*34-145*	0.09676	*2.28*		

The following samples were analyzed in this batch: 1309324-01B 1309324-02B 1309324-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18672** Instrument ID **HG1** Method: **SW7471A**

MBLK Sample ID **MBLK-18672-18672** Units: **mg/Kg** Analysis Date: **9/19/2013 06:59 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679203** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.30								

LCS Sample ID **LCS-18672-18672** Units: **mg/Kg** Analysis Date: **9/19/2013 06:55 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679201** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.9651	0.30	1.107	0	87.2	69-147	0			

LCSD Sample ID **LCSD-18672-18672** Units: **mg/Kg** Analysis Date: **9/19/2013 06:57 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679202** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.289	0.29	1.099	0	117	69-147	0.9651	28.8	20	R

MS Sample ID **1309329-08B MS** Units: **mg/Kg** Analysis Date: **9/19/2013 07:26 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679214** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7743	0.29	0.8097	0	95.6	69-147	0			

MSD Sample ID **1309329-08B MSD** Units: **mg/Kg** Analysis Date: **9/19/2013 07:39 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679215** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7143	0.28	0.7795	0	91.6	69-147	0.7743	8.07	20	

The following samples were analyzed in this batch: 1309324-01B 1309324-02B 1309324-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18652** Instrument ID **ICP2** Method: **SW6010B**

MBLK Sample ID **mblk-18652-18652** Units: **mg/Kg** Analysis Date: **9/18/2013 09:55 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678907** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	5.0								
Barium	ND	10								
Cadmium	ND	1.0								
Chromium	ND	2.0								
Lead	ND	5.0								
Selenium	ND	3.0								
Silver	ND	1.0								

LCS Sample ID **lcs-18652-18652** Units: **mg/Kg** Analysis Date: **9/18/2013 10:02 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678908** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	104.9	5.0	100	0	105	80-120	0			
Barium	109	10	100	0	109	80-120	0			
Cadmium	108	1.0	100	0	108	80-120	0			
Chromium	97.53	2.0	100	0	97.5	80-120	0			
Lead	110.9	5.0	100	0	111	80-120	0			
Selenium	105.7	3.0	100	0	106	80-120	0			
Silver	101.6	1.0	100	0	102	80-120	0			

LCSD Sample ID **lcsd-18652-18652** Units: **mg/Kg** Analysis Date: **9/18/2013 10:09 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678909** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	105.9	5.0	100	0	106	80-120	104.9	0.949	20	
Barium	109.2	10	100	0	109	80-120	109	0.183	20	
Cadmium	108.7	1.0	100	0	109	80-120	108	0.646	20	
Chromium	98.99	2.0	100	0	99	80-120	97.53	1.49	20	
Lead	111.8	5.0	100	0	112	80-120	110.9	0.808	20	
Selenium	106.7	3.0	100	0	107	80-120	105.7	0.942	20	
Silver	101.3	1.0	100	0	101	80-120	101.6	0.296	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18652** Instrument ID **ICP2** Method: **SW6010B**

MS Sample ID **1309320-01b ms** Units: **mg/Kg** Analysis Date: **9/18/2013 10:22 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678911** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	110.7	5.0	99.74	12.98	98	75-125	0			
Barium	192.5	10	99.74	104.8	87.9	75-125	0			
Cadmium	100.9	1.0	99.74	0.1515	101	75-125	0			
Chromium	106.5	2.0	99.74	13.9	92.9	75-125	0			
Lead	626.2	5.0	99.74	387.1	240	75-125	0			S
Selenium	99.7	3.0	99.74	1.667	98.3	75-125	0			
Silver	95.22	1.0	99.74	0.02974	95.4	75-125	0			

MSD Sample ID **1309320-01b msd** Units: **mg/Kg** Analysis Date: **9/18/2013 10:29 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678912** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	114.6	5.0	99.84	12.98	102	75-125	110.7	3.47	20	
Barium	212.8	10	99.84	104.8	108	75-125	192.5	10	20	
Cadmium	102	1.0	99.84	0.1515	102	75-125	100.9	1.08	20	
Chromium	109.5	2.0	99.84	13.9	95.8	75-125	106.5	2.78	20	
Lead	854.4	5.0	99.84	387.1	468	75-125	626.2	30.8	20	SR
Selenium	100.5	3.0	99.84	1.667	99	75-125	99.7	0.837	20	
Silver	95.14	1.0	99.84	0.02974	95.3	75-125	95.22	0.0889	20	

The following samples were analyzed in this batch: 1309324-01b 1309324-02b 1309324-03b

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

MBLK Sample ID **MBLK-18664-18664** Units: **µg/Kg** Analysis Date: **9/18/2013 12:50 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679110** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3`-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
Surr: 2,4,6-Tribromophenol	2492	0	*3330*	0	*74.8*	*18-115*	0
Surr: 2-Fluorobiphenyl	929.3	0	*1670*	0	*55.6*	*30-116*	0
Surr: 2-Fluorophenol	1467	0	*3330*	0	*44.1*	*24-105*	0
Surr: 4-Terphenyl-d14	1049	0	*1670*	0	*62.8*	*40-127*	0
Surr: Nitrobenzene-d5	993.7	0	*1670*	0	*59.5*	*32-106*	0
Surr: Phenol-d5	1770	0	*3330*	0	*53.2*	*39-123*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

LCS Sample ID **LCS-18664-18664** Units: **µg/Kg** Analysis Date: **9/18/2013 01:22 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679111** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1190	330	1670	0	71.3	48.1-106	0			
1,4-Dichlorobenzene	1124	330	1670	0	67.3	55.5-89.4	0			
2,4-Dinitrotoluene	1445	330	1670	0	86.5	58.8-123	0			
2-Chlorophenol	1395	330	1670	0	83.5	34.7-116	0			
4-Chloro-3-methylphenol	1472	660	1670	0	88.2	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	86	36.2-146	0			
Acenaphthene	1244	330	1670	0	74.5	67.8-104	0			
Acenaphthylene	1309	330	1670	0	78.4	65.6-103	0			
Anthracene	1245	330	1670	0	74.5	71.1-107	0			
Benzo(a)anthracene	1189	330	1670	0	71.2	60.4-118	0			
Benzo(a)pyrene	1342	330	1670	0	80.4	73.7-110	0			
Benzo(b)fluoranthene	1060	330	1670	0	63.5	59.9-94.8	0			
Benzo(g,h,i)perylene	1207	330	1670	0	72.3	40-129	0			
Benzo(k)fluoranthene	1632	330	1670	0	97.7	75.7-130	0			
Carbazole	1497	330	1670	0	89.6	72.7-130	0			
Chrysene	1529	330	1670	0	91.6	62.3-115	0			
Dibenzo(a,h)anthracene	1157	330	1670	0	69.3	59.2-121	0			
Fluoranthene	1338	330	1670	0	80.1	63-120	0			
Fluorene	1238	330	1670	0	74.1	69-106	0			
Indeno(1,2,3-cd)pyrene	1379	150	1670	0	82.6	59-110	0			
Naphthalene	1164	330	1670	0	69.7	49.1-103	0			
N-Nitrosodi-n-propylamine	1396	330	1670	0	83.6	25.3-127	0			
Pentachlorophenol	ND	1,600	1670	0	70.4	22.1-105	0			
Phenanthrene	1246	330	1670	0	74.6	70-112	0			
Phenol	1260	330	1670	0	75.4	36.9-97.8	0			
Pyrene	1263	330	1670	0	75.6	55-117	0			
Surr: 2,4,6-Tribromophenol	2219	0	*3330*	0	*66.6*	*18-115*	0			
Surr: 2-Fluorobiphenyl	1160	0	*1670*	0	*69.5*	*30-116*	0			
Surr: 2-Fluorophenol	2151	0	*3330*	0	*64.6*	*24-105*	0			
Surr: 4-Terphenyl-d14	1135	0	*1670*	0	*68*	*40-127*	0			
Surr: Nitrobenzene-d5	1291	0	*1670*	0	*77.3*	*32-106*	0			
Surr: Phenol-d5	2186	0	*3330*	0	*65.6*	*39-123*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

MS Sample ID **1309267-04BMSS** Units: **µg/Kg** Analysis Date: **9/18/2013 04:03 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679116** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1145	330	1669	0	68.6	50.6-92	0			
1,4-Dichlorobenzene	992.3	330	1669	0	59.5	40.1-84.3	0			
2,4-Dinitrotoluene	1320	330	1669	0	79.1	50.3-127	0			
2-Chlorophenol	1234	330	1669	0	74	33.3-109	0			
4-Chloro-3-methylphenol	1355	660	1669	0	81.2	35.8-116	0			
4-Nitrophenol	1639	1,600	1669	0	98.2	38.7-135	0			
Acenaphthene	1135	330	1669	0	68	54.1-109	0			
Acenaphthylene	1181	330	1669	0	70.8	55.3-118	0			
Anthracene	1177	330	1669	0	70.5	51-106	0			
Benzo(a)anthracene	1052	330	1669	0	63	31.6-128	0			
Benzo(a)pyrene	1244	330	1669	0	74.5	66.1-109	0			
Benzo(b)fluoranthene	1086	330	1669	0	65.1	56.8-87.8	0			
Benzo(g,h,i)perylene	1025	330	1669	0	61.4	37.7-113	0			
Benzo(k)fluoranthene	1503	330	1669	0	90.1	57-119	0			
Carbazole	1408	330	1669	0	84.4	28.5-114	0			
Chrysene	1398	330	1669	0	83.8	46.3-104	0			
Dibenzo(a,h)anthracene	1042	330	1669	0	62.5	48.8-123	0			
Fluoranthene	1220	330	1669	0	73.1	52-120	0			
Fluorene	1158	330	1669	0	69.4	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1263	150	1669	0	75.7	56.1-118	0			
Naphthalene	1097	330	1669	0	65.7	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1284	330	1669	0	76.9	46.5-116	0			
Pentachlorophenol	ND	1,600	1669	0	68	28.9-156	0			
Phenanthrene	1201	330	1669	0	71.9	52-105	0			
Phenol	1140	330	1669	0	68.3	25.9-90.3	0			
Pyrene	1199	330	1669	0	71.9	51-111	0			
Surr: 2,4,6-Tribromophenol	2230	0	*3328*	0	*67*	*18-115*	0			
Surr: 2-Fluorobiphenyl	1080	0	*1669*	0	*64.7*	*30-116*	0			
Surr: 2-Fluorophenol	1971	0	*3328*	0	*59.2*	*24-105*	0			
Surr: 4-Terphenyl-d14	1012	0	*1669*	0	*60.6*	*40-127*	0			
Surr: Nitrobenzene-d5	1153	0	*1669*	0	*69.1*	*32-106*	0			
Surr: Phenol-d5	1963	0	*3328*	0	*59*	*39-123*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

MSD Sample ID **1309267-04BMSDD** Units: **µg/Kg** Analysis Date: **9/18/2013 04:36 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679117** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1046	330	1668	0	62.7	50.6-92	1145	9.04	18	
1,4-Dichlorobenzene	855.5	330	1668	0	51.3	40.1-84.3	992.3	14.8	20	
2,4-Dinitrotoluene	1259	330	1668	0	75.5	50.3-127	1320	4.77	20	
2-Chlorophenol	1221	330	1668	0	73.2	33.3-109	1234	1.07	20	
4-Chloro-3-methylphenol	1271	660	1668	0	76.2	35.8-116	1355	6.36	20	
4-Nitrophenol	ND	1,600	1668	0	87.9	38.7-135	1639	0	20	
Acenaphthene	1133	330	1668	0	68	54.1-109	1135	0.125	20	
Acenaphthylene	1177	330	1668	0	70.6	55.3-118	1181	0.321	20	
Anthracene	1231	330	1668	0	73.8	51-106	1177	4.53	20	
Benzo(a)anthracene	1030	330	1668	0	61.8	31.6-128	1052	2.08	20	
Benzo(a)pyrene	1277	330	1668	0	76.6	66.1-109	1244	2.63	20	
Benzo(b)fluoranthene	1110	330	1668	0	66.5	56.8-87.8	1086	2.12	20	
Benzo(g,h,i)perylene	1166	330	1668	0	69.9	37.7-113	1025	12.9	20	
Benzo(k)fluoranthene	1434	330	1668	0	86	57-119	1503	4.72	20	
Carbazole	1273	330	1668	0	76.3	28.5-114	1408	10	20	
Chrysene	1441	330	1668	0	86.4	46.3-104	1398	3.03	21	
Dibenzo(a,h)anthracene	1022	330	1668	0	61.3	48.8-123	1042	1.94	20	
Fluoranthene	1155	330	1668	0	69.3	52-120	1220	5.42	20	
Fluorene	1166	330	1668	0	69.9	54.8-113	1158	0.679	20	
Indeno(1,2,3-cd)pyrene	1373	150	1668	0	82.3	56.1-118	1263	8.3	20	
Naphthalene	1016	330	1668	0	60.9	51.1-99.3	1097	7.66	20	
N-Nitrosodi-n-propylamine	1261	330	1668	0	75.6	46.5-116	1284	1.85	17	
Pentachlorophenol	ND	1,600	1668	0	70.6	28.9-156	1136	0	20	
Phenanthrene	1171	330	1668	0	70.2	52-105	1201	2.48	20	
Phenol	1121	330	1668	0	67.2	25.9-90.3	1140	1.75	17	
Pyrene	1145	330	1668	0	68.7	51-111	1199	4.58	20	
Surr: 2,4,6-Tribromophenol	2317	0	*3326*	0	*69.7*	*18-115*	2230	*3.84*		
Surr: 2-Fluorobiphenyl	1041	0	*1668*	0	*62.4*	*30-116*	1080	*3.71*		
Surr: 2-Fluorophenol	1805	0	*3326*	0	*54.3*	*24-105*	1971	*8.8*		
Surr: 4-Terphenyl-d14	948.7	0	*1668*	0	*56.9*	*40-127*	1012	*6.42*		
Surr: Nitrobenzene-d5	1125	0	*1668*	0	*67.5*	*32-106*	1153	*2.38*		
Surr: Phenol-d5	1938	0	*3326*	0	*58.3*	*39-123*	1963	*1.31*		

The following samples were analyzed in this batch: 1309324-01B 1309324-02B 1309324-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

MBLK Sample ID **MBLK-R102135** Units: **µg/Kg** Analysis Date: **9/18/2013 08:19 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678878** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	5.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	5.0						
Xylenes, Total	ND	5.0						
Surr: 4-Bromofluorobenzene	51.22	0	*50*	0	*102*	*62.7-159*	0	
Surr: Dibromofluoromethane	47.75	0	*50*	0	*95.5*	*67.3-136*	0	
Surr: Toluene-d8	49.25	0	*50*	0	*98.5*	*81.5-110*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

LCS Sample ID **LCS-R102135** Units: **µg/Kg** Analysis Date: **9/18/2013 07:48 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678877** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.83	5.0	50	0	104	70-132	0			
1,1-Dichloroethene	47.65	5.0	50	0	95.3	61.2-140	0			
1,2-Dichloroethane	51.14	5.0	50	0	102	67.3-139	0			
1,3-Dichlorobenzene	55.66	5.0	50	0	111	67.5-126	0			
1,4-Dichlorobenzene	54.79	5.0	50	0	110	69.5-124	0			
Benzene	51.69	5.0	50	0	103	67.2-135	0			
Carbon tetrachloride	51.5	5.0	50	0	103	68.6-138	0			
Chlorobenzene	52.87	5.0	50	0	106	66.4-133	0			
Chloroform	51.88	5.0	50	0	104	68.2-127	0			
cis-1,2-Dichloroethene	50.1	5.0	50	0	100	62.1-135	0			
Ethylbenzene	51.99	5.0	50	0	104	67.8-132	0			
m,p-Xylene	103.9	5.0	100	0	104	66.4-132	0			
Styrene	50.19	5.0	50	0	100	67.6-134	0			
Tetrachloroethene	51.56	5.0	50	0	103	70.3-144	0			
Toluene	51.37	5.0	50	0	103	67.8-130	0			
Trichloroethene	51.8	5.0	50	0	104	68.5-136	0			
Surr: 4-Bromofluorobenzene	49.75	0	*50*	0	*99.5*	*62.7-159*	0			
Surr: Dibromofluoromethane	51.27	0	*50*	0	*103*	*67.3-136*	0			
Surr: Toluene-d8	49.46	0	*50*	0	*98.9*	*81.5-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

MS Sample ID **1309167-03A MS** Units: **µg/Kg** Analysis Date: **9/18/2013 09:22 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678880** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	59.47	5.0	50	0	119	66.9-140	0			
1,1-Dichloroethene	57.79	5.0	50	0	116	65.9-143	0			
1,2-Dichloroethane	53.94	5.0	50	0	108	73-135	0			
1,3-Dichlorobenzene	58.76	5.0	50	0	118	61.2-125	0			
1,4-Dichlorobenzene	57.91	5.0	50	0	116	62.3-123	0			
Benzene	58.23	5.0	50	0	116	35.8-162	0			
Carbon tetrachloride	57.72	5.0	50	0	115	71.4-130	0			
Chlorobenzene	57.71	5.0	50	0	115	65.6-137	0			
Chloroform	56.77	5.0	50	0	114	69.6-128	0			
cis-1,2-Dichloroethene	55.65	5.0	50	0	111	68.8-130	0			
Ethylbenzene	58.57	5.0	50	0	117	68.6-124	0			
m,p-Xylene	117.2	5.0	100	0	117	64.5-125	0			
Styrene	57.04	5.0	50	0	114	65.9-125	0			
Tetrachloroethene	58.14	5.0	50	0	116	71.6-135	0			
Toluene	57.32	5.0	50	0	115	67.7-135	0			
Trichloroethene	60.29	5.0	50	0	121	70.9-139	0			
Surr: 4-Bromofluorobenzene	50.23	0	*50*	0	*100*	*62.7-159*	0			
Surr: Dibromofluoromethane	48.08	0	*50*	0	*96.2*	*67.3-136*	0			
Surr: Toluene-d8	50.6	0	*50*	0	*101*	*81.5-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309324
Project: COTA Fields; Project #144938.151

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

MSD Sample ID **1309167-03A MSD** Units: **µg/Kg** Analysis Date: **9/18/2013 10:25 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678882** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.88	5.0	50	0	99.8	66.9-140	59.47	17.5	20	
1,1-Dichloroethene	51.3	5.0	50	0	103	65.9-143	57.79	11.9	20	
1,2-Dichloroethane	44.97	5.0	50	0	89.9	73-135	53.94	18.1	20	
1,3-Dichlorobenzene	49.06	5.0	50	0	98.1	61.2-125	58.76	18	21	
1,4-Dichlorobenzene	47.61	5.0	50	0	95.2	62.3-123	57.91	19.5	22.5	
Benzene	48.76	5.0	50	0	97.5	35.8-162	58.23	17.7	23.6	
Carbon tetrachloride	51.92	5.0	50	0	104	71.4-130	57.72	10.6	22.9	
Chlorobenzene	47.46	5.0	50	0	94.9	65.6-137	57.71	19.5	20	
Chloroform	48.44	5.0	50	0	96.9	69.6-128	56.77	15.8	23.1	
cis-1,2-Dichloroethene	47.22	5.0	50	0	94.4	68.8-130	55.65	16.4	23.7	
Ethylbenzene	49.08	5.0	50	0	98.2	68.6-124	58.57	17.6	24.9	
m,p-Xylene	103.7	5.0	100	0	104	64.5-125	117.2	12.2	25.1	
Styrene	47.91	5.0	50	0	95.8	65.9-125	57.04	17.4	22.8	
Tetrachloroethene	50.94	5.0	50	0	102	71.6-135	58.14	13.2	24.7	
Toluene	48.72	5.0	50	0	97.4	67.7-135	57.32	16.2	20	
Trichloroethene	50.08	5.0	50	0	100	70.9-139	60.29	18.5	20	
Surr: 4-Bromofluorobenzene	49.11	0	*50*	0	*98.2*	*62.7-159*	50.23	*2.25*		
Surr: Dibromofluoromethane	49.83	0	*50*	0	*99.7*	*67.3-136*	48.08	*3.57*		
Surr: Toluene-d8	49.99	0	*50*	0	*100*	*81.5-110*	50.6	*1.21*		

The following samples were analyzed in this batch: 1309324-01A 1309324-02A 1309324-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Project: COTA Fields; Project #144938.151
WorkOrder: **1309324**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/Kg	
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 17-Sep-13 17:25

Work Order: 1309324 | Received by: SEG

Checklist completed by Shiloh Greenwald (eSignature) 17-Sep-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 18-Sep-13 (Date)

Matrices:

Carrier name: Courier

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 2.3

Cooler(s)/Kit(s):

	Yes	No		
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted	☑
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: _

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

24-Sep-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Work Order: **1309339**

Dear Kelly,

ALS Environmental received 3 samples on 18-Sep-2013 02:43 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 46.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Project: COTA
Work Order: **1309339**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1309339-01	DS#1	Soil		9/18/2013 09:35	9/18/2013 14:43	☐
1309339-02	DS#2	Soil		9/18/2013 09:40	9/18/2013 14:43	☐
1309339-03	Trip Blank	Water		9/18/2013	9/18/2013 14:43	☐

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Project: COTA
Work Order: 1309339

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Work Order: 1309339
Sample ID: DS#1
Lab ID: 1309339-01
Collection Date: 9/18/2013 09:35 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1221	ND		4.0	mg/Kg	20	9/19/2013
Aroclor 1232	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1242	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1248	**54**		**2.0**	**mg/Kg**	20	9/19/2013
Aroclor 1254	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1260	ND		2.0	mg/Kg	20	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**16**		**0.010**	**% of sample**	1	9/18/2013
TCLP MERCURY BY CVAA			**SW7470A**		Prep Date: **9/23/2013**	Analyst: **SLW**
Mercury	ND		0.50	µg/L	1	9/24/2013 01:52 PM
MERCURY BY CVAA			**SW7471A**		Prep Date: **9/18/2013**	Analyst: **SLW**
Mercury	ND		0.27	mg/Kg	1	9/19/2013 07:09 AM
METALS BY ICP			**SW6010B**		Prep Date: **9/18/2013**	Analyst: **VAW**
Arsenic	**5.3**		**5.0**	**mg/Kg**	1	9/19/2013 01:46 PM
Barium	**310**		**9.9**	**mg/Kg**	1	9/19/2013 01:46 PM
Cadmium	**1.3**		**0.99**	**mg/Kg**	1	9/19/2013 01:46 PM
Chromium	**130**		**5.0**	**mg/Kg**	1	9/19/2013 01:46 PM
Lead	**140**		**5.0**	**mg/Kg**	1	9/19/2013 01:46 PM
Selenium	**7.4**		**3.0**	**mg/Kg**	1	9/19/2013 01:46 PM
Silver	ND		2.0	mg/Kg	1	9/19/2013 01:46 PM
TCLP METALS BY ICP			**SW6010B**		Prep Date: **9/19/2013**	Analyst: **VAW**
Arsenic	ND		0.10	mg/L	5	9/19/2013 02:54 PM
Barium	**1.3**		**0.10**	**mg/L**	5	9/19/2013 02:54 PM
Cadmium	ND		0.10	mg/L	5	9/19/2013 02:54 PM
Chromium	ND		0.10	mg/L	5	9/19/2013 02:54 PM
Lead	**0.17**		**0.10**	**mg/L**	5	9/19/2013 02:54 PM
Selenium	ND		0.10	mg/L	5	9/19/2013 02:54 PM
Silver	ND		0.10	mg/L	5	9/19/2013 02:54 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/19/2013**	Analyst: **JCL**
1,2,4,5-Tetrachlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
1,2,4-Trichlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
1,2-Dichlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
1,3-Dichlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
1,3-Dinitrobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
1,4-Dichlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#1
Collection Date: 9/18/2013 09:35 AM

Work Order: 1309339
Lab ID: 1309339-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
1-Naphthylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,3,4,6-Tetrachlorophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,4,5-Trichlorophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,4,6-Trichlorophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,4-Dichlorophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,4-Dimethylphenol	**450**		**330**	**µg/Kg**	1	9/20/2013 07:52 PM
2,4-Dinitrophenol	ND		1,600	µg/Kg	1	9/20/2013 07:52 PM
2,4-Dinitrotoluene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,6-Dichlorophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2,6-Dinitrotoluene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Acetylaminofluorene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Chloronaphthalene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Chlorophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Methylnaphthalene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Methylphenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Naphthylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Nitroaniline	ND		1,600	µg/Kg	1	9/20/2013 07:52 PM
2-Nitrophenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
2-Picoline	ND		330	µg/Kg	1	9/20/2013 07:52 PM
3&4-Methylphenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
3,3`-Dichlorobenzidine	ND		660	µg/Kg	1	9/20/2013 07:52 PM
3-Methylcholanthrene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
3-Nitroaniline	ND		1,600	µg/Kg	1	9/20/2013 07:52 PM
4,6-Dinitro-2-methylphenol	ND		1,600	µg/Kg	1	9/20/2013 07:52 PM
4-Aminobiphenyl	ND		660	µg/Kg	1	9/20/2013 07:52 PM
4-Bromophenyl phenyl ether	ND		330	µg/Kg	1	9/20/2013 07:52 PM
4-Chloro-3-methylphenol	ND		660	µg/Kg	1	9/20/2013 07:52 PM
4-Chloroaniline	ND		660	µg/Kg	1	9/20/2013 07:52 PM
4-Chlorophenyl phenyl ether	ND		330	µg/Kg	1	9/20/2013 07:52 PM
4-Nitroaniline	ND		660	µg/Kg	1	9/20/2013 07:52 PM
4-Nitrophenol	ND		1,600	µg/Kg	1	9/20/2013 07:52 PM
4-Nitroquinoline 1-oxide	ND		330	µg/Kg	1	9/20/2013 07:52 PM
5-Nitro-o-toluidine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
7,12-Dimethylbenz(a)anthracene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Acenaphthene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Acenaphthylene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Acetophenone	**800**		**330**	**µg/Kg**	1	9/20/2013 07:52 PM
Aniline	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Anthracene	ND		330	µg/Kg	1	9/20/2013 07:52 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#1
Collection Date: 9/18/2013 09:35 AM

Work Order: 1309339
Lab ID: 1309339-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Azobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzidine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzo(a)anthracene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzo(a)pyrene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzo(b)fluoranthene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzo(g,h,i)perylene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzo(k)fluoranthene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Benzyl alcohol	ND		660	µg/Kg	1	9/20/2013 07:52 PM
Bis(2-chloroethoxy)methane	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Bis(2-chloroethyl)ether	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Bis(2-chloroisopropyl)ether	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Bis(2-ethylhexyl)phthalate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Butyl benzyl phthalate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Carbazole	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Chrysene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Dibenzo(a,h)anthracene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Dibenzofuran	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Diethyl phthalate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Dimethyl phthalate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Di-n-butyl phthalate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Di-n-octyl phthalate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Dinoseb	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Diphenylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Ethyl methanesulfonate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Fluoranthene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Fluorene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Hexachlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Hexachlorobutadiene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Hexachlorocyclopentadiene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Hexachloroethane	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Indeno(1,2,3-cd)pyrene	ND		150	µg/Kg	1	9/20/2013 07:52 PM
Isophorone	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Isosafrole	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Methapyrilene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Methyl methanesulfonate	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Naphthalene	**640**		**330**	**µg/Kg**	1	9/20/2013 07:52 PM
Nitrobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitrosodiethylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitrosodimethylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitroso-di-n-butylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#1
Collection Date: 9/18/2013 09:35 AM

Work Order: 1309339
Lab ID: 1309339-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitrosomethylethylamine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitrosomorpholine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitrosopiperidine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
N-Nitrosopyrrolidine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
o-Toluidine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
p-Dimethylaminoazobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Pentachlorobenzene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Pentachloroethane	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Pentachloronitrobenzene	ND		660	µg/Kg	1	9/20/2013 07:52 PM
Pentachlorophenol	ND		1,600	µg/Kg	1	9/20/2013 07:52 PM
Phenacetin	ND		660	µg/Kg	1	9/20/2013 07:52 PM
Phenanthrene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Phenol	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Pyrene	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Pyridine	ND		330	µg/Kg	1	9/20/2013 07:52 PM
Safrole	ND		330	µg/Kg	1	9/20/2013 07:52 PM
TCLP SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/20/2013**	Analyst: **JCL**
1,4-Dichlorobenzene	ND		0.040	mg/L	1	9/20/2013 10:18 PM
2,4,5-Trichlorophenol	ND		0.040	mg/L	1	9/20/2013 10:18 PM
2,4,6-Trichlorophenol	ND		0.040	mg/L	1	9/20/2013 10:18 PM
2,4-Dinitrotoluene	ND		0.040	mg/L	1	9/20/2013 10:18 PM
2-Methylphenol	ND		0.040	mg/L	1	9/20/2013 10:18 PM
3&4-Methylphenol	ND		0.040	mg/L	1	9/20/2013 10:18 PM
Hexachloro-1,3-butadiene	ND		0.040	mg/L	1	9/20/2013 10:18 PM
Hexachlorobenzene	ND		0.040	mg/L	1	9/20/2013 10:18 PM
Hexachloroethane	ND		0.040	mg/L	1	9/20/2013 10:18 PM
Nitrobenzene	ND		0.040	mg/L	1	9/20/2013 10:18 PM
Pentachlorophenol	ND		0.040	mg/L	1	9/20/2013 10:18 PM
Pyridine	ND		0.040	mg/L	1	9/20/2013 10:18 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,1,1-Trichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,1,2,2-Tetrachloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,1,2-Trichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,1-Dichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,1-Dichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,1-Dichloropropene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2,3-Trichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#1
Collection Date: 9/18/2013 09:35 AM

Work Order: 1309339
Lab ID: 1309339-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2,4-Trichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2,4-Trimethylbenzene	**27,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:12 PM
1,2-Dibromo-3-chloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2-Dibromoethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2-Dichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2-Dichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,2-Dichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,3,5-Trimethylbenzene	**12,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:12 PM
1,3-Dichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,3-Dichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
1,4-Dichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
2,2-Dichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
2-Butanone	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
2-Chlorotoluene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
2-Hexanone	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
4-Chlorotoluene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
4-Methyl-2-pentanone	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Acetone	**6,500**		**6,200**	**µg/Kg**	1250	9/19/2013 06:12 PM
Benzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Bromobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Bromochloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Bromodichloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Bromoform	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Bromomethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Carbon disulfide	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Carbon tetrachloride	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Chlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Chloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Chloroform	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Chloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
cis-1,2-Dichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
cis-1,3-Dichloropropene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Dibromochloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Dibromomethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Dichlorodifluoromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Ethylbenzene	**230,000**		**31,000**	**µg/Kg**	6250	9/20/2013 06:13 PM
Hexachlorobutadiene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Isopropylbenzene	**16,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:12 PM
m,p-Xylene	**910,000**		**31,000**	**µg/Kg**	6250	9/20/2013 06:13 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Work Order: 1309339
Sample ID: DS#1
Lab ID: 1309339-01
Collection Date: 9/18/2013 09:35 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Methylene chloride	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Naphthalene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
n-Butylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
n-Propylbenzene	**16,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:12 PM
o-Xylene	**220,000**		**31,000**	**µg/Kg**	6250	9/20/2013 06:13 PM
p-Isopropyltoluene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
sec-Butylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Styrene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
tert-Butylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Tetrachloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Toluene	**7,200**		**6,200**	**µg/Kg**	1250	9/19/2013 06:12 PM
trans-1,2-Dichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
trans-1,3-Dichloropropene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Trichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Trichlorofluoromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Vinyl chloride	ND		6,200	µg/Kg	1250	9/19/2013 06:12 PM
Xylenes, Total	**1,100,000**		**31,000**	**µg/Kg**	6250	9/20/2013 06:13 PM
TCLP VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1-Dichloroethene	ND		0.10	mg/L	20	9/23/2013 09:48 AM
1,2-Dichloroethane	ND		0.10	mg/L	20	9/23/2013 09:48 AM
1,4-Dichlorobenzene	ND		0.10	mg/L	20	9/23/2013 09:48 AM
2-Butanone	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Benzene	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Carbon tetrachloride	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Chlorobenzene	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Chloroform	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Tetrachloroethene	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Trichloroethene	ND		0.10	mg/L	20	9/23/2013 09:48 AM
Vinyl chloride	ND		0.10	mg/L	20	9/23/2013 09:48 AM
IGNITABILITY			**SW1030**			Analyst: **CTS**
Ignitability	ND			mm/sec	1	9/20/2013
PH			**E9045C**			Analyst: **KMW**
pH	**8.5**			**pH Units**	1	9/20/2013
REACTIVITY BY EPA 7.3			**WE7.3**			Analyst: **CTS**
Reactive cyanide	*ND*		0.10	mg/Kg	1	9/20/2013
Reactive sulfide	*ND*		20	mg/Kg	1	9/20/2013

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Work Order: 1309339
Sample ID: DS#2
Lab ID: 1309339-02
Collection Date: 9/18/2013 09:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1221	ND		4.0	mg/Kg	20	9/19/2013
Aroclor 1232	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1242	**100**		**2.0**	**mg/Kg**	20	9/19/2013
Aroclor 1248	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1254	ND		2.0	mg/Kg	20	9/19/2013
Aroclor 1260	ND		2.0	mg/Kg	20	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**12**		**0.010**	**% of sample**	1	9/18/2013
TCLP MERCURY BY CVAA			**SW7470A**		Prep Date: **9/23/2013**	Analyst: **SLW**
Mercury	ND		0.50	µg/L	1	9/24/2013 01:58 PM
MERCURY BY CVAA			**SW7471A**		Prep Date: **9/18/2013**	Analyst: **SLW**
Mercury	ND		0.28	mg/Kg	1	9/19/2013 07:11 AM
METALS BY ICP			**SW6010B**		Prep Date: **9/18/2013**	Analyst: **VAW**
Arsenic	ND		4.9	mg/Kg	1	9/19/2013 01:52 PM
Barium	**190**		**9.8**	**mg/Kg**	1	9/19/2013 01:52 PM
Cadmium	**1.5**		**0.98**	**mg/Kg**	1	9/19/2013 01:52 PM
Chromium	**1,700**		**4.9**	**mg/Kg**	1	9/19/2013 01:52 PM
Lead	**210**		**4.9**	**mg/Kg**	1	9/19/2013 01:52 PM
Selenium	**4.5**		**3.0**	**mg/Kg**	1	9/19/2013 01:52 PM
Silver	ND		2.0	mg/Kg	1	9/19/2013 01:52 PM
TCLP METALS BY ICP			**SW6010B**		Prep Date: **9/19/2013**	Analyst: **VAW**
Arsenic	ND		0.10	mg/L	5	9/19/2013 03:01 PM
Barium	**1.3**		**0.10**	**mg/L**	5	9/19/2013 03:01 PM
Cadmium	ND		0.10	mg/L	5	9/19/2013 03:01 PM
Chromium	ND		0.10	mg/L	5	9/19/2013 03:01 PM
Lead	**0.35**		**0.10**	**mg/L**	5	9/19/2013 03:01 PM
Selenium	ND		0.10	mg/L	5	9/19/2013 03:01 PM
Silver	ND		0.10	mg/L	5	9/19/2013 03:01 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/19/2013**	Analyst: **JCL**
1,2,4,5-Tetrachlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
1,2,4-Trichlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
1,2-Dichlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
1,3-Dichlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
1,3-Dinitrobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
1,4-Dichlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#2
Collection Date: 9/18/2013 09:40 AM

Work Order: 1309339
Lab ID: 1309339-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
1-Naphthylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,3,4,6-Tetrachlorophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,4,5-Trichlorophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,4,6-Trichlorophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,4-Dichlorophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,4-Dimethylphenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,4-Dinitrophenol	ND		1,700	µg/Kg	1	9/20/2013 08:21 PM
2,4-Dinitrotoluene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,6-Dichlorophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2,6-Dinitrotoluene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Acetylaminofluorene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Chloronaphthalene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Chlorophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Methylnaphthalene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Methylphenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Naphthylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Nitroaniline	ND		1,700	µg/Kg	1	9/20/2013 08:21 PM
2-Nitrophenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
2-Picoline	ND		330	µg/Kg	1	9/20/2013 08:21 PM
3&4-Methylphenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
3,3`-Dichlorobenzidine	ND		660	µg/Kg	1	9/20/2013 08:21 PM
3-Methylcholanthrene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
3-Nitroaniline	ND		1,700	µg/Kg	1	9/20/2013 08:21 PM
4,6-Dinitro-2-methylphenol	ND		1,700	µg/Kg	1	9/20/2013 08:21 PM
4-Aminobiphenyl	ND		660	µg/Kg	1	9/20/2013 08:21 PM
4-Bromophenyl phenyl ether	ND		330	µg/Kg	1	9/20/2013 08:21 PM
4-Chloro-3-methylphenol	ND		660	µg/Kg	1	9/20/2013 08:21 PM
4-Chloroaniline	ND		660	µg/Kg	1	9/20/2013 08:21 PM
4-Chlorophenyl phenyl ether	ND		330	µg/Kg	1	9/20/2013 08:21 PM
4-Nitroaniline	ND		660	µg/Kg	1	9/20/2013 08:21 PM
4-Nitrophenol	ND		1,700	µg/Kg	1	9/20/2013 08:21 PM
4-Nitroquinoline 1-oxide	ND		330	µg/Kg	1	9/20/2013 08:21 PM
5-Nitro-o-toluidine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
7,12-Dimethylbenz(a)anthracene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Acenaphthene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Acenaphthylene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Acetophenone	**430**		**330**	**µg/Kg**	1	9/20/2013 08:21 PM
Aniline	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Anthracene	ND		330	µg/Kg	1	9/20/2013 08:21 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#2
Collection Date: 9/18/2013 09:40 AM

Work Order: 1309339
Lab ID: 1309339-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Azobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzidine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzo(a)anthracene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzo(a)pyrene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzo(b)fluoranthene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzo(g,h,i)perylene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzo(k)fluoranthene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Benzyl alcohol	ND		660	µg/Kg	1	9/20/2013 08:21 PM
Bis(2-chloroethoxy)methane	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Bis(2-chloroethyl)ether	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Bis(2-chloroisopropyl)ether	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Bis(2-ethylhexyl)phthalate	**350**		**330**	**µg/Kg**	1	9/20/2013 08:21 PM
Butyl benzyl phthalate	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Carbazole	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Chrysene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Dibenzo(a,h)anthracene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Dibenzofuran	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Diethyl phthalate	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Dimethyl phthalate	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Di-n-butyl phthalate	**1,700**		**330**	**µg/Kg**	1	9/20/2013 08:21 PM
Di-n-octyl phthalate	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Dinoseb	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Diphenylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Ethyl methanesulfonate	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Fluoranthene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Fluorene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Hexachlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Hexachlorobutadiene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Hexachlorocyclopentadiene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Hexachloroethane	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Indeno(1,2,3-cd)pyrene	ND		150	µg/Kg	1	9/20/2013 08:21 PM
Isophorone	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Isosafrole	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Methapyrilene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Methyl methanesulfonate	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Naphthalene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Nitrobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitrosodiethylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitrosodimethylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitroso-di-n-butylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#2
Collection Date: 9/18/2013 09:40 AM

Work Order: 1309339
Lab ID: 1309339-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitrosomethylethylamine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitrosomorpholine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitrosopiperidine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
N-Nitrosopyrrolidine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
o-Toluidine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
p-Dimethylaminoazobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Pentachlorobenzene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Pentachloroethane	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Pentachloronitrobenzene	ND		660	µg/Kg	1	9/20/2013 08:21 PM
Pentachlorophenol	ND		1,700	µg/Kg	1	9/20/2013 08:21 PM
Phenacetin	ND		660	µg/Kg	1	9/20/2013 08:21 PM
Phenanthrene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Phenol	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Pyrene	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Pyridine	ND		330	µg/Kg	1	9/20/2013 08:21 PM
Safrole	ND		330	µg/Kg	1	9/20/2013 08:21 PM
TCLP SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/20/2013**	Analyst: **JCL**
1,4-Dichlorobenzene	ND		0.040	mg/L	1	9/20/2013 10:47 PM
2,4,5-Trichlorophenol	ND		0.040	mg/L	1	9/20/2013 10:47 PM
2,4,6-Trichlorophenol	ND		0.040	mg/L	1	9/20/2013 10:47 PM
2,4-Dinitrotoluene	ND		0.040	mg/L	1	9/20/2013 10:47 PM
2-Methylphenol	ND		0.040	mg/L	1	9/20/2013 10:47 PM
3&4-Methylphenol	ND		0.040	mg/L	1	9/20/2013 10:47 PM
Hexachloro-1,3-butadiene	ND		0.040	mg/L	1	9/20/2013 10:47 PM
Hexachlorobenzene	ND		0.040	mg/L	1	9/20/2013 10:47 PM
Hexachloroethane	ND		0.040	mg/L	1	9/20/2013 10:47 PM
Nitrobenzene	ND		0.040	mg/L	1	9/20/2013 10:47 PM
Pentachlorophenol	ND		0.040	mg/L	1	9/20/2013 10:47 PM
Pyridine	ND		0.040	mg/L	1	9/20/2013 10:47 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,1,1-Trichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,1,2,2-Tetrachloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,1,2-Trichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,1-Dichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,1-Dichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,1-Dichloropropene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2,3-Trichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: DS#2
Collection Date: 9/18/2013 09:40 AM

Work Order: 1309339
Lab ID: 1309339-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,3-Trichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2,4-Trichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2,4-Trimethylbenzene	**14,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:43 PM
1,2-Dibromo-3-chloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2-Dibromoethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2-Dichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2-Dichloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,2-Dichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,3,5-Trimethylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,3-Dichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,3-Dichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
1,4-Dichlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
2,2-Dichloropropane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
2-Butanone	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
2-Chlorotoluene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
2-Hexanone	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
4-Chlorotoluene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
4-Methyl-2-pentanone	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Acetone	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Benzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Bromobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Bromochloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Bromodichloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Bromoform	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Bromomethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Carbon disulfide	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Carbon tetrachloride	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Chlorobenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Chloroethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Chloroform	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Chloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
cis-1,2-Dichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
cis-1,3-Dichloropropene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Dibromochloromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Dibromomethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Dichlorodifluoromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Ethylbenzene	**150,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:43 PM
Hexachlorobutadiene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Isopropylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
m,p-Xylene	**420,000**		**31,000**	**µg/Kg**	6250	9/20/2013 06:44 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Work Order: 1309339
Sample ID: DS#2
Lab ID: 1309339-02
Collection Date: 9/18/2013 09:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Methylene chloride	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Naphthalene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
n-Butylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
n-Propylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
o-Xylene	**160,000**		**6,200**	**µg/Kg**	1250	9/19/2013 06:43 PM
p-Isopropyltoluene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
sec-Butylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Styrene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
tert-Butylbenzene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Tetrachloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Toluene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
trans-1,2-Dichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
trans-1,3-Dichloropropene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Trichloroethene	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Trichlorofluoromethane	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Vinyl chloride	ND		6,200	µg/Kg	1250	9/19/2013 06:43 PM
Xylenes, Total	**520,000**		**31,000**	**µg/Kg**	6250	9/20/2013 06:44 PM
TCLP VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1-Dichloroethene	ND		0.10	mg/L	20	9/23/2013 10:17 AM
1,2-Dichloroethane	ND		0.10	mg/L	20	9/23/2013 10:17 AM
1,4-Dichlorobenzene	ND		0.10	mg/L	20	9/23/2013 10:17 AM
2-Butanone	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Benzene	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Carbon tetrachloride	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Chlorobenzene	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Chloroform	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Tetrachloroethene	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Trichloroethene	ND		0.10	mg/L	20	9/23/2013 10:17 AM
Vinyl chloride	ND		0.10	mg/L	20	9/23/2013 10:17 AM
IGNITABILITY			**SW1030**			Analyst: **CTS**
Ignitability	ND			mm/sec	1	9/20/2013
PH			**E9045C**			Analyst: **KMW**
pH	**8.3**			**pH Units**	1	9/20/2013
REACTIVITY BY EPA 7.3			**WE7.3**			Analyst: **CTS**
Reactive cyanide	*ND*		0.10	mg/Kg	1	9/20/2013
Reactive sulfide	*ND*		20	mg/Kg	1	9/20/2013

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: Trip Blank
Collection Date: 9/18/2013

Work Order: 1309339
Lab ID: 1309339-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
2-Butanone	ND		5.0	µg/L	1	9/21/2013 03:21 PM
2-Chlorotoluene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
2-Hexanone	ND		5.0	µg/L	1	9/21/2013 03:21 PM
4-Chlorotoluene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Acetone	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Benzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Bromobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Bromochloromethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Bromodichloromethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Bromoform	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Bromomethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Carbon disulfide	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Carbon tetrachloride	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Chlorobenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Chloroethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Chloroform	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Chloromethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM

Note:

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA
Sample ID: Trip Blank
Collection Date: 9/18/2013

Work Order: 1309339
Lab ID: 1309339-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Dibromochloromethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Dibromomethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Ethylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Isopropylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
m,p-Xylene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Methylene chloride	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Naphthalene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
n-Butylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
n-Propylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
o-Xylene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
sec-Butylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Styrene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
tert-Butylbenzene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Tetrachloroethene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Toluene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Trichloroethene	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	9/21/2013 03:21 PM
Vinyl chloride	ND		2.0	µg/L	1	9/21/2013 03:21 PM
Xylenes, Total	ND		5.0	µg/L	1	9/21/2013 03:21 PM

Note:

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18680** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-18680-18680** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: Run ID: **GC9_130919A** SeqNo: **679629** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0766	0	*0.1*	0	*76.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0854	0	*0.1*	0	*85.4*	*34-145*	0			

LCS Sample ID **LCS-18680-18680** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: Run ID: **GC9_130919A** SeqNo: **679630** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.993	0.10	2	0	99.6	50-133	0			
Surr: Decachlorobiphenyl	0.0832	0	*0.1*	0	*83.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.09	0	*0.1*	0	*90*	*34-145*	0			

MS Sample ID **1309342-09Ams** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: Run ID: **GC9_130919A** SeqNo: **679639** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.031	0.10	2.008	0	101	31-150	0			
Surr: Decachlorobiphenyl	0.08032	0	*0.1004*	0	*80*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.08956	0	*0.1004*	0	*89.2*	*34-145*	0			

MSD Sample ID **1309342-09Amsd** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: Run ID: **GC9_130919A** SeqNo: **679640** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.08	0.099	1.98	0	105	31-150	2.031	2.39	53	
Surr: Decachlorobiphenyl	0.08297	0	*0.09901*	0	*83.8*	*22-156*	0.08032	*3.24*		
Surr: Tetrachloro-m-xylene	0.09248	0	*0.09901*	0	*93.4*	*34-145*	0.08956	*3.2*		

The following samples were analyzed in this batch: 1309339-01B 1309339-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18672** Instrument ID **HG1** Method: **SW7471A**

MBLK Sample ID **MBLK-18672-18672** Units: **mg/Kg** Analysis Date: **9/19/2013 06:59 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679203** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.30								

LCS Sample ID **LCS-18672-18672** Units: **mg/Kg** Analysis Date: **9/19/2013 06:55 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679201** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.9651	0.30	1.107	0	87.2	69-147	0			

LCSD Sample ID **LCSD-18672-18672** Units: **mg/Kg** Analysis Date: **9/19/2013 06:57 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679202** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.289	0.29	1.099	0	117	69-147	0.9651	28.8	20	R

MS Sample ID **1309329-08B MS** Units: **mg/Kg** Analysis Date: **9/19/2013 07:26 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679214** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7743	0.29	0.8097	0	95.6	69-147	0			

MSD Sample ID **1309329-08B MSD** Units: **mg/Kg** Analysis Date: **9/19/2013 07:39 AM**
Client ID: Run ID: **HG1_130919B** SeqNo: **679215** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7143	0.28	0.7795	0	91.6	69-147	0.7743	8.07	20	

The following samples were analyzed in this batch: 1309339-01B 1309339-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18746** Instrument ID **HG1** Method: **SW7470A**

MBLK Sample ID **MBLK-18746-18746** Units: **µg/L** Analysis Date: **9/24/2013 01:50 PM**
Client ID: Run ID: **HG1_130924B** SeqNo: **683079** Prep Date: **9/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS Sample ID **LCS-18746-18746** Units: **µg/L** Analysis Date: **9/24/2013 01:46 PM**
Client ID: Run ID: **HG1_130924B** SeqNo: **683077** Prep Date: **9/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.68	0.50	5	0	114	80-120	0	0	20	

LCSD Sample ID **LCSD-18746-18746** Units: **µg/L** Analysis Date: **9/24/2013 01:48 PM**
Client ID: Run ID: **HG1_130924B** SeqNo: **683078** Prep Date: **9/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.22	0.50	5	0	104	80-120	5.22	0	20	

MS Sample ID **1309339-01C MS** Units: **µg/L** Analysis Date: **9/24/2013 01:54 PM**
Client ID: **DS#1** Run ID: **HG1_130924B** SeqNo: **683081** Prep Date: **9/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.62	0.50	5	0.02	112	75-125	0			

MSD Sample ID **1309339-01C MSD** Units: **µg/L** Analysis Date: **9/24/2013 01:56 PM**
Client ID: **DS#1** Run ID: **HG1_130924B** SeqNo: **683082** Prep Date: **9/23/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.57	0.50	5	0.02	111	75-125	5.62	0.894	20	

The following samples were analyzed in this batch: 1309339-01C 1309339-02C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18665** Instrument ID **ICP3** Method: **SW6010B**

MBLK Sample ID **mblk-18665-18665** Units: **mg/Kg** Analysis Date: **9/19/2013 11:51 AM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679697** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	5.0								
Barium	ND	10								
Cadmium	ND	1.0								
Chromium	ND	2.0								
Lead	ND	5.0								
Selenium	ND	3.0								
Silver	ND	1.0								

LCS Sample ID **lcs-18665-18665** Units: **mg/Kg** Analysis Date: **9/19/2013 11:58 AM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679698** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	104.6	5.0	100	0	105	80-120	0			
Barium	107.9	10	100	0	108	80-120	0			
Cadmium	107.8	1.0	100	0	108	80-120	0			
Chromium	106.5	2.0	100	0	106	80-120	0			
Lead	110.3	5.0	100	0	110	80-120	0			
Selenium	105.4	3.0	100	0	105	80-120	0			
Silver	99.88	1.0	100	0	99.9	80-120	0			

LCSD Sample ID **lcsd-18665-18665** Units: **mg/Kg** Analysis Date: **9/19/2013 12:05 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679699** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	104.5	5.0	100	0	104	80-120	104.6	0.0956	20	
Barium	107.4	10	100	0	107	80-120	107.9	0.464	20	
Cadmium	107.2	1.0	100	0	107	80-120	107.8	0.558	20	
Chromium	106	2.0	100	0	106	80-120	106.5	0.471	20	
Lead	110.1	5.0	100	0	110	80-120	110.3	0.181	20	
Selenium	105	3.0	100	0	105	80-120	105.4	0.38	20	
Silver	99.27	1.0	100	0	99.3	80-120	99.88	0.613	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18665** Instrument ID **ICP3** Method: **SW6010B**

MS Sample ID **1309329-05b ms** Units: **mg/Kg** Analysis Date: **9/19/2013 01:05 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679706** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	97.37	5.0	99.46	4.834	93	75-125	0			
Barium	100.7	9.9	99.46	18.98	82.1	75-125	0			
Cadmium	91.77	0.99	99.46	0.4727	91.8	75-125	0			
Chromium	89.85	2.0	99.46	7.627	82.7	75-125	0			
Lead	90.87	5.0	99.46	12.66	78.6	75-125	0			
Selenium	91.94	3.0	99.46	0.7772	91.7	75-125	0			
Silver	87.5	0.99	99.46	-0.115	88.1	75-125	0			

MSD Sample ID **1309329-05b msd** Units: **mg/Kg** Analysis Date: **9/19/2013 01:11 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679707** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	97.1	5.0	99.54	4.834	92.7	75-125	97.37	0.279	20	
Barium	101.7	10	99.54	18.98	83.1	75-125	100.7	1.06	20	
Cadmium	91.49	1.0	99.54	0.4727	91.4	75-125	91.77	0.311	20	
Chromium	89.95	2.0	99.54	7.627	82.7	75-125	89.85	0.102	20	
Lead	91.36	5.0	99.54	12.66	79.1	75-125	90.87	0.538	20	
Selenium	91.11	3.0	99.54	0.7772	90.7	75-125	91.94	0.91	20	
Silver	86.85	1.0	99.54	-0.115	87.4	75-125	87.5	0.742	20	

The following samples were analyzed in this batch: 1309339-01b 1309339-02b

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18704** Instrument ID **ICP3** Method: **SW6010B**

MBLK Sample ID **mblk-18704-18704** Units: **mg/L** Analysis Date: **9/19/2013 01:59 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679741** Prep Date: **9/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.10								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.10								
Lead	ND	0.10								
Selenium	ND	0.10								
Silver	ND	0.10								

LCS Sample ID **lcs-18704-18704** Units: **mg/L** Analysis Date: **9/19/2013 02:06 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679742** Prep Date: **9/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.145	0.10	1.1	0	104	80-120	0			
Barium	1.125	0.10	1.1	0	102	80-120	0			
Cadmium	1.13	0.10	1.1	0	103	80-120	0			
Chromium	1.098	0.10	1.1	0	99.8	80-120	0			
Lead	1.097	0.10	1.1	0	99.7	80-120	0			
Selenium	1.166	0.10	1.1	0	106	80-120	0			
Silver	1.016	0.10	1.1	0	92.4	80-120	0			

LCSD Sample ID **lcsd-18704-18704** Units: **mg/L** Analysis Date: **9/19/2013 02:27 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679743** Prep Date: **9/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.161	0.10	1.1	0	106	80-120	1.145	1.43	20	
Barium	1.132	0.10	1.1	0	103	80-120	1.125	0.634	20	
Cadmium	1.136	0.10	1.1	0	103	80-120	1.13	0.534	20	
Chromium	1.103	0.10	1.1	0	100	80-120	1.098	0.45	20	
Lead	1.114	0.10	1.1	0	101	80-120	1.097	1.54	20	
Selenium	1.19	0.10	1.1	0	108	80-120	1.166	2.01	20	
Silver	1.02	0.10	1.1	0	92.7	80-120	1.016	0.324	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18704** Instrument ID **ICP3** Method: **SW6010B**

MS Sample ID **1309233-01a ms** Units: **mg/L** Analysis Date: **9/19/2013 02:40 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679745** Prep Date: **9/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.132	0.10	1.1	-0.04839	107	75-125	0			
Barium	1.346	0.10	1.1	0.2344	101	75-125	0			
Cadmium	1.167	0.10	1.1	0.02113	104	75-125	0			
Chromium	3.171	0.10	1.1	2.085	98.8	75-125	0			
Lead	4.777	0.10	1.1	3.406	125	75-125	0			
Selenium	1.192	0.10	1.1	0.03109	106	75-125	0			
Silver	1.053	0.10	1.1	0.02268	93.6	75-125	0			

MSD Sample ID **1309233-01a msd** Units: **mg/L** Analysis Date: **9/19/2013 02:47 PM**
Client ID: Run ID: **ICP3_130919A** SeqNo: **679746** Prep Date: **9/19/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.126	0.10	1.1	-0.04839	107	75-125	1.132	0.536	20	
Barium	1.339	0.10	1.1	0.2344	100	75-125	1.346	0.533	20	
Cadmium	1.158	0.10	1.1	0.02113	103	75-125	1.167	0.757	20	
Chromium	3.146	0.10	1.1	2.085	96.4	75-125	3.171	0.801	20	
Lead	4.493	0.10	1.1	3.406	98.8	75-125	4.777	6.12	20	
Selenium	1.204	0.10	1.1	0.03109	107	75-125	1.192	1.06	20	
Silver	1.043	0.10	1.1	0.02268	92.8	75-125	1.053	0.892	20	

The following samples were analyzed in this batch: 1309339-01C 1309339-02C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18705** Instrument ID **SVMS2** Method: **SW8270C**

MBLK Sample ID **MBLK-18705-18705** Units: **µg/Kg** Analysis Date: **9/19/2013 04:22 PM**
Client ID: Run ID: **SVMS2_130919A** SeqNo: **680413** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3`-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **18705** Instrument ID **SVMS2** Method: **SW8270C**

Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **18705** Instrument ID **SVMS2** Method: **SW8270C**

N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
Surr: 2,4,6-Tribromophenol	2456	0	*3330*	0	*73.8*	*18-115*	0
Surr: 2-Fluorobiphenyl	1162	0	*1670*	0	*69.6*	*30-116*	0
Surr: 2-Fluorophenol	2031	0	*3330*	0	*61*	*24-105*	0
Surr: 4-Terphenyl-d14	1283	0	*1670*	0	*76.8*	*40-127*	0
Surr: Nitrobenzene-d5	1360	0	*1670*	0	*81.5*	*32-106*	0
Surr: Phenol-d5	2524	0	*3330*	0	*75.8*	*39-123*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18705** Instrument ID **SVMS2** Method: **SW8270C**

LCS Sample ID **LCS-18705-18705** Units: **µg/Kg** Analysis Date: **9/19/2013 04:54 PM**
Client ID: Run ID: **SVMS2_130919A** SeqNo: **680414** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1216	330	1670	0	72.8	48.1-106	0			
1,4-Dichlorobenzene	1229	330	1670	0	73.6	55.5-89.4	0			
2,4-Dinitrotoluene	1540	330	1670	0	92.2	58.8-123	0			
2-Chlorophenol	1393	330	1670	0	83.4	34.7-116	0			
4-Chloro-3-methylphenol	1367	660	1670	0	81.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	79.8	36.2-146	0			
Acenaphthene	1255	330	1670	0	75.2	67.8-104	0			
Acenaphthylene	1318	330	1670	0	78.9	65.6-103	0			
Anthracene	1301	330	1670	0	77.9	71.1-107	0			
Benzo(a)anthracene	1239	330	1670	0	74.2	60.4-118	0			
Benzo(a)pyrene	1437	330	1670	0	86	73.7-110	0			
Benzo(b)fluoranthene	1140	330	1670	0	68.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1630	330	1670	0	97.6	40-129	0			
Benzo(k)fluoranthene	1479	330	1670	0	88.6	75.7-130	0			
Carbazole	1690	330	1670	0	101	72.7-130	0			
Chrysene	1314	330	1670	0	78.7	62.3-115	0			
Dibenzo(a,h)anthracene	1471	330	1670	0	88.1	59.2-121	0			
Fluoranthene	1458	330	1670	0	87.3	63-120	0			
Fluorene	1292	330	1670	0	77.3	69-106	0			
Indeno(1,2,3-cd)pyrene	1322	150	1670	0	79.2	59-110	0			
Naphthalene	1142	330	1670	0	68.4	49.1-103	0			
N-Nitrosodi-n-propylamine	1185	330	1670	0	71	25.3-127	0			
Pentachlorophenol	ND	1,600	1670	0	82.4	22.1-105	0			
Phenanthrene	1314	330	1670	0	78.7	70-112	0			
Phenol	1347	330	1670	0	80.6	36.9-97.8	0			
Pyrene	1346	330	1670	0	80.6	55-117	0			
Surr: 2,4,6-Tribromophenol	2099	0	*3330*	0	*63*	*18-115*	0			
Surr: 2-Fluorobiphenyl	1140	0	*1670*	0	*68.3*	*30-116*	0			
Surr: 2-Fluorophenol	2295	0	*3330*	0	*68.9*	*24-105*	0			
Surr: 4-Terphenyl-d14	1214	0	*1670*	0	*72.7*	*40-127*	0			
Surr: Nitrobenzene-d5	1246	0	*1670*	0	*74.6*	*32-106*	0			
Surr: Phenol-d5	2416	0	*3330*	0	*72.6*	*39-123*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18705** Instrument ID **SVMS2** Method: **SW8270C**

MS Sample ID **1309333-01BMSS** Units: **µg/Kg** Analysis Date: **9/19/2013 05:27 PM**
Client ID: Run ID: **SVMS2_130919A** SeqNo: **680415** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1183	330	1667	0	70.9	50.6-92	0			
1,4-Dichlorobenzene	974	330	1667	0	58.4	40.1-84.3	0			
2,4-Dinitrotoluene	1429	330	1667	0	85.7	50.3-127	0			
2-Chlorophenol	1130	330	1667	0	67.8	33.3-109	0			
4-Chloro-3-methylphenol	1331	660	1667	0	79.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1667	0	87.1	38.7-135	0			
Acenaphthene	1193	330	1667	0	71.6	54.1-109	0			
Acenaphthylene	1282	330	1667	0	76.9	55.3-118	0			
Anthracene	1255	330	1667	0	75.3	51-106	0			
Benzo(a)anthracene	1114	330	1667	0	66.8	31.6-128	0			
Benzo(a)pyrene	1375	330	1667	0	82.5	66.1-109	0			
Benzo(b)fluoranthene	1125	330	1667	0	67.5	56.8-87.8	0			
Benzo(g,h,i)perylene	1422	330	1667	0	85.3	37.7-113	0			
Benzo(k)fluoranthene	1399	330	1667	0	83.9	57-119	0			
Carbazole	1575	330	1667	0	94.5	28.5-114	0			
Chrysene	1204	330	1667	0	72.2	46.3-104	0			
Dibenzo(a,h)anthracene	1270	330	1667	37.6	73.9	48.8-123	0			
Fluoranthene	1311	330	1667	0	78.6	52-120	0			
Fluorene	1272	330	1667	0	76.3	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1219	150	1667	35.61	71	56.1-118	0			
Naphthalene	1158	330	1667	0	69.5	51.1-99.3	0			
N-Nitrosodi-n-propylamine	952.1	330	1667	0	57.1	46.5-116	0			
Pentachlorophenol	ND	1,600	1667	0	92.2	28.9-156	0			
Phenanthrene	1265	330	1667	0	75.9	52-105	0			
Phenol	1106	330	1667	0	66.4	25.9-90.3	0			
Pyrene	1284	330	1667	0	77	51-111	0			
Surr: 2,4,6-Tribromophenol	2181	0	*3324*	0	*65.6*	*18-115*	0			
Surr: 2-Fluorobiphenyl	1125	0	*1667*	0	*67.5*	*30-116*	0			
Surr: 2-Fluorophenol	1922	0	*3324*	0	*57.8*	*24-105*	0			
Surr: 4-Terphenyl-d14	1145	0	*1667*	0	*68.7*	*40-127*	0			
Surr: Nitrobenzene-d5	1029	0	*1667*	0	*61.7*	*32-106*	0			
Surr: Phenol-d5	1968	0	*3324*	0	*59.2*	*39-123*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18705** Instrument ID **SVMS2** Method: **SW8270C**

MSD Sample ID **1309333-01BMSDD** Units: **µg/Kg** Analysis Date: **9/19/2013 05:59 PM**
Client ID: Run ID: **SVMS2_130919A** SeqNo: **680416** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1136	330	1667	0	68.2	50.6-92	1183	3.99	18	
1,4-Dichlorobenzene	1045	330	1667	0	62.7	40.1-84.3	974	7.05	20	
2,4-Dinitrotoluene	1370	330	1667	0	82.2	50.3-127	1429	4.21	20	
2-Chlorophenol	1144	330	1667	0	68.6	33.3-109	1130	1.17	20	
4-Chloro-3-methylphenol	1326	660	1667	0	79.6	35.8-116	1331	0.351	20	
4-Nitrophenol	ND	1,600	1667	0	82.8	38.7-135	1452	0	20	
Acenaphthene	1202	330	1667	0	72.1	54.1-109	1193	0.778	20	
Acenaphthylene	1286	330	1667	0	77.1	55.3-118	1282	0.259	20	
Anthracene	1265	330	1667	0	75.9	51-106	1255	0.766	20	
Benzo(a)anthracene	1113	330	1667	0	66.8	31.6-128	1114	0.0299	20	
Benzo(a)pyrene	1407	330	1667	0	84.4	66.1-109	1375	2.25	20	
Benzo(b)fluoranthene	1122	330	1667	0	67.3	56.8-87.8	1125	0.296	20	
Benzo(g,h,i)perylene	1405	330	1667	0	84.3	37.7-113	1422	1.18	20	
Benzo(k)fluoranthene	1478	330	1667	0	88.6	57-119	1399	5.48	20	
Carbazole	1598	330	1667	0	95.9	28.5-114	1575	1.45	20	
Chrysene	1222	330	1667	0	73.3	46.3-104	1204	1.51	21	
Dibenzo(a,h)anthracene	1268	330	1667	37.6	73.8	48.8-123	1270	0.157	20	
Fluoranthene	1355	330	1667	0	81.3	52-120	1311	3.34	20	
Fluorene	1238	330	1667	0	74.2	54.8-113	1272	2.76	20	
Indeno(1,2,3-cd)pyrene	1185	150	1667	35.61	69	56.1-118	1219	2.82	20	
Naphthalene	1144	330	1667	0	68.6	51.1-99.3	1158	1.21	20	
N-Nitrosodi-n-propylamine	972	330	1667	0	58.3	46.5-116	952.1	2.08	17	
Pentachlorophenol	1629	1,600	1667	0	97.7	28.9-156	1537	5.78	20	
Phenanthrene	1256	330	1667	0	75.3	52-105	1265	0.766	20	
Phenol	1107	330	1667	0	66.4	25.9-90.3	1106	0.0902	17	
Pyrene	1333	330	1667	0	79.9	51-111	1284	3.74	20	
Surr: 2,4,6-Tribromophenol	2196	0	*3324*	0	*66.1*	*18-115*	2181	*0.684*		
Surr: 2-Fluorobiphenyl	1119	0	*1667*	0	*67.1*	*30-116*	1125	*0.504*		
Surr: 2-Fluorophenol	2056	0	*3324*	0	*61.8*	*24-105*	1922	*6.73*		
Surr: 4-Terphenyl-d14	1170	0	*1667*	0	*70.2*	*40-127*	1145	*2.19*		
Surr: Nitrobenzene-d5	1038	0	*1667*	0	*62.2*	*32-106*	1029	*0.87*		
Surr: Phenol-d5	1951	0	*3324*	0	*58.7*	*39-123*	1968	*0.866*		

The following samples were analyzed in this batch: 1309339-01B 1309339-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18714** Instrument ID **SVMS3** Method: **SW8270C**

MBLK Sample ID **MBLK-18714-18714** Units: **mg/L** Analysis Date: **9/20/2013 08:50 PM**
Client ID: Run ID: **SVMS3_130920B** SeqNo: **681762** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	ND	0.010								
2,4,5-Trichlorophenol	ND	0.010								
2,4,6-Trichlorophenol	ND	0.010								
2,4-Dinitrotoluene	ND	0.010								
2-Methylphenol	ND	0.010								
3&4-Methylphenol	ND	0.010								
Hexachloro-1,3-butadiene	ND	0.010								
Hexachlorobenzene	ND	0.010								
Hexachloroethane	ND	0.010								
Nitrobenzene	ND	0.010								
Pentachlorophenol	ND	0.010								
Pyridine	ND	0.010								
Surr: 2,4,6-Tribromophenol	0.07842	0	*0.1*	0	*78.4*	*55-107*	0			
Surr: 2-Fluorobiphenyl	0.03166	0	*0.05*	0	*63.3*	*54-107*	0			
Surr: 2-Fluorophenol	0.06179	0	*0.1*	0	*61.8*	*28-75*	0			
Surr: 4-Terphenyl-d14	0.03884	0	*0.05*	0	*77.7*	*60-110*	0			
Surr: Nitrobenzene-d5	0.03111	0	*0.05*	0	*62.2*	*49-98*	0			
Surr: Phenol-d5	0.04069	0	*0.1*	0	*40.7*	*20-69*	0			

LCS Sample ID **LCS-18714-18714** Units: **mg/L** Analysis Date: **9/20/2013 09:19 PM**
Client ID: Run ID: **SVMS3_130920B** SeqNo: **681763** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.05247	0.010	0.1	0	52.5	31-103	0			
2,4,5-Trichlorophenol	0.08874	0.010	0.1	0	88.7	43-123	0			
2,4,6-Trichlorophenol	0.08952	0.010	0.1	0	89.5	37-118	0			
2,4-Dinitrotoluene	0.0739	0.010	0.1	0	73.9	16-143	0			
2-Methylphenol	0.07702	0.010	0.1	0	77	41-107	0			
3&4-Methylphenol	0.1577	0.010	0.2	0	78.9	21-119	0			
Hexachloro-1,3-butadiene	0.05055	0.010	0.1	0	50.6	27.8-76.8	0			
Hexachlorobenzene	0.09047	0.010	0.1	0	90.5	48-126	0			
Hexachloroethane	0.04408	0.010	0.1	0	44.1	24-99	0			
Nitrobenzene	0.08985	0.010	0.1	0	89.8	44-109	0			
Pentachlorophenol	0.1044	0.010	0.1	0	104	22-137	0			E
Pyridine	0.02873	0.010	0.1	0	28.7	17-89	0			
Surr: 2,4,6-Tribromophenol	0.08261	0	*0.1*	0	*82.6*	*59.6-124*	0			
Surr: 2-Fluorobiphenyl	0.03482	0	*0.05*	0	*69.6*	*54-107*	0			
Surr: 2-Fluorophenol	0.06861	0	*0.1*	0	*68.6*	*28-75*	0			
Surr: 4-Terphenyl-d14	0.04174	0	*0.05*	0	*83.5*	*60-110*	0			
Surr: Nitrobenzene-d5	0.03677	0	*0.05*	0	*73.5*	*49-98*	0			
Surr: Phenol-d5	0.04271	0	*0.1*	0	*42.7*	*20-69*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **18714** Instrument ID **SVMS3** Method: **SW8270C**

MS Sample ID **1309339-02CMS** Units: **mg/L** Analysis Date: **9/20/2013 09:49 PM**
Client ID: **DS#2** Run ID: **SVMS3_130920B** SeqNo: **681764** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.2688	0.047	0.4695	0	57.2	31-103	0			
2,4,5-Trichlorophenol	0.4384	0.047	0.4695	0	93.4	43-123	0			
2,4,6-Trichlorophenol	0.4421	0.047	0.4695	0	94.2	37-118	0			
2,4-Dinitrotoluene	0.3744	0.047	0.4695	0	79.7	16-143	0			
2-Methylphenol	0.3694	0.047	0.4695	0	78.7	41-107	0			
3&4-Methylphenol	0.7536	0.047	0.939	0	80.3	21-119	0			
Hexachloro-1,3-butadiene	0.2458	0.047	0.4695	0	52.4	36-103	0			
Hexachlorobenzene	0.4221	0.047	0.4695	0	89.9	48-126	0			
Hexachloroethane	0.2243	0.047	0.4695	0	47.8	24-99	0			
Nitrobenzene	0.341	0.047	0.4695	0	72.6	44-109	0			
Pentachlorophenol	0.4981	0.047	0.4695	0	106	22-137	0			E
Pyridine	0.1853	0.047	0.4695	0	39.5	17-89	0			
Surr: 2,4,6-Tribromophenol	0.3926	0	*0.4695*	0	*83.6*	*42.7-139*	0			
Surr: 2-Fluorobiphenyl	0.1686	0	*0.2347*	0	*71.8*	*54-107*	0			
Surr: 2-Fluorophenol	0.2942	0	*0.4695*	0	*62.7*	*28-75*	0			
Surr: 4-Terphenyl-d14	0.1804	0	*0.2347*	0	*76.8*	*60-110*	0			
Surr: Nitrobenzene-d5	0.1751	0	*0.2347*	0	*74.6*	*49-98*	0			
Surr: Phenol-d5	0.1895	0	*0.4695*	0	*40.4*	*20-69*	0			

The following samples were analyzed in this batch: 1309339-01C 1309339-02C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102173** Instrument ID **VMS2** Method: **SW8260**

MBLK Sample ID **MBLK-R102173** Units: **µg/Kg** Analysis Date: **9/19/2013 08:18 AM**
Client ID: Run ID: **VMS2_130919A** SeqNo: **679568** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R102173** Instrument ID **VMS2** Method: **SW8260**

Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Surr: 4-Bromofluorobenzene	47.71	0	*50*	0	*95.4*	*62.7-159*	0
Surr: Dibromofluoromethane	44.97	0	*50*	0	*89.9*	*67.3-136*	0
Surr: Toluene-d8	46.7	0	*50*	0	*93.4*	*81.5-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102173** Instrument ID **VMS2** Method: **SW8260**

LCS Sample ID **LCS-R102173** Units: **µg/Kg** Analysis Date: **9/19/2013 07:46 AM**
Client ID: Run ID: **VMS2_130919A** SeqNo: **679567** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.66	5.0	50	0	101	70-132	0			
1,1-Dichloroethene	49.67	5.0	50	0	99.3	61.2-140	0			
1,2-Dichloroethane	50.24	5.0	50	0	100	67.3-139	0			
1,3-Dichlorobenzene	56.2	5.0	50	0	112	67.5-126	0			
1,4-Dichlorobenzene	57.35	5.0	50	0	115	69.5-124	0			
Benzene	52.18	5.0	50	0	104	67.2-135	0			
Carbon tetrachloride	50	5.0	50	0	100	68.6-138	0			
Chlorobenzene	55.74	5.0	50	0	111	66.4-133	0			
Chloroform	48.55	5.0	50	0	97.1	68.2-127	0			
cis-1,2-Dichloroethene	49.02	5.0	50	0	98	62.1-135	0			
Ethylbenzene	54.48	5.0	50	0	109	67.8-132	0			
Styrene	55.26	5.0	50	0	111	67.6-134	0			
Tetrachloroethene	51.15	5.0	50	0	102	70.3-144	0			
Toluene	52.39	5.0	50	0	105	67.8-130	0			
Trichloroethene	53.12	5.0	50	0	106	68.5-136	0			
Surr: 4-Bromofluorobenzene	46.13	0	*50*	0	*92.3*	*62.7-159*	0			
Surr: Dibromofluoromethane	46.27	0	*50*	0	*92.5*	*67.3-136*	0			
Surr: Toluene-d8	46.41	0	*50*	0	*92.8*	*81.5-110*	0			

MS Sample ID **1309333-01A MS** Units: **µg/Kg** Analysis Date: **9/19/2013 09:52 AM**
Client ID: Run ID: **VMS2_130919A** SeqNo: **679571** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.11	5.0	50	0	94.2	66.9-140	0			
1,1-Dichloroethene	41.07	5.0	50	0	82.1	65.9-143	0			
1,2-Dichloroethane	47.71	5.0	50	0	95.4	73-135	0			
1,3-Dichlorobenzene	45.86	5.0	50	0	91.7	61.2-125	0			
1,4-Dichlorobenzene	45.18	5.0	50	0	90.4	62.3-123	0			
Benzene	45.82	5.0	50	0	91.6	35.8-162	0			
Carbon tetrachloride	46.32	5.0	50	0	92.6	71.4-130	0			
Chlorobenzene	46.87	5.0	50	0	93.7	65.6-137	0			
Chloroform	46.33	5.0	50	0	92.7	69.6-128	0			
cis-1,2-Dichloroethene	42.7	5.0	50	0	85.4	68.8-130	0			
Ethylbenzene	47.31	5.0	50	0	94.6	68.6-124	0			
Styrene	46.68	5.0	50	0	93.4	65.9-125	0			
Tetrachloroethene	67.44	5.0	50	0	135	71.6-135	0			
Toluene	44.61	5.0	50	0	89.2	67.7-135	0			
Trichloroethene	47.68	5.0	50	0	95.4	70.9-139	0			
Surr: 4-Bromofluorobenzene	49.11	0	*50*	0	*98.2*	*62.7-159*	0			
Surr: Dibromofluoromethane	50.61	0	*50*	0	*101*	*67.3-136*	0			
Surr: Toluene-d8	47.13	0	*50*	0	*94.3*	*81.5-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102173** Instrument ID **VMS2** Method: **SW8260**

MSD Sample ID **1309333-01A MSD** Units: **µg/Kg** Analysis Date: **9/19/2013 11:57 AM**
Client ID: Run ID: **VMS2_130919A** SeqNo: **679575** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.75	5.0	50	0	108	66.9-140	47.11	13.2	20	
1,1-Dichloroethene	46.18	5.0	50	0	92.4	65.9-143	41.07	11.7	20	
1,2-Dichloroethane	50.27	5.0	50	0	101	73-135	47.71	5.23	20	
1,3-Dichlorobenzene	55.82	5.0	50	0	112	61.2-125	45.86	19.6	21	
1,4-Dichlorobenzene	54.48	5.0	50	0	109	62.3-123	45.18	18.7	22.5	
Benzene	49.93	5.0	50	0	99.9	35.8-162	45.82	8.58	23.6	
Carbon tetrachloride	55.65	5.0	50	0	111	71.4-130	46.32	18.3	22.9	
Chlorobenzene	56.05	5.0	50	0	112	65.6-137	46.87	17.8	20	
Chloroform	50.53	5.0	50	0	101	69.6-128	46.33	8.67	23.1	
cis-1,2-Dichloroethene	45.74	5.0	50	0	91.5	68.8-130	42.7	6.87	23.7	
Ethylbenzene	56.38	5.0	50	0	113	68.6-124	47.31	17.5	24.9	
Styrene	53.75	5.0	50	0	108	65.9-125	46.68	14.1	22.8	
Tetrachloroethene	59.3	5.0	50	0	119	71.6-135	67.44	12.8	24.7	
Toluene	50.44	5.0	50	0	101	67.7-135	44.61	12.3	20	
Trichloroethene	53.08	5.0	50	0	106	70.9-139	47.68	10.7	20	
Surr: 4-Bromofluorobenzene	51.76	0	*50*	0	*104*	*62.7-159*	49.11	*5.25*		
Surr: Dibromofluoromethane	46.51	0	*50*	0	*93*	*67.3-136*	50.61	*8.44*		
Surr: Toluene-d8	46.36	0	*50*	0	*92.7*	*81.5-110*	47.13	*1.65*		

The following samples were analyzed in this batch: 1309339-01A 1309339-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102223** Instrument ID **VMS2** Method: **SW8260**

MBLK Sample ID **MBLK-R102223** Units: **µg/Kg** Analysis Date: **9/20/2013 11:55 AM**
Client ID: Run ID: **VMS2_130920A** SeqNo: **680968** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	5.0								
o-Xylene	ND	5.0								
Xylenes, Total	ND	5.0								
Surr: 4-Bromofluorobenzene	54.49	0	*50*	0	*109*	*62.7-159*	0			
Surr: Dibromofluoromethane	45.93	0	*50*	0	*91.9*	*67.3-136*	0			
Surr: Toluene-d8	51.1	0	*50*	0	*102*	*81.5-110*	0			

LCS Sample ID **LCS-R102223** Units: **µg/Kg** Analysis Date: **9/20/2013 12:26 PM**
Client ID: Run ID: **VMS2_130920A** SeqNo: **680969** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	55.14	5.0	50	0	110	67.8-132	0			
m,p-Xylene	110.2	5.0	100	0	110	66.4-132	0			
Surr: 4-Bromofluorobenzene	49.32	0	*50*	0	*98.6*	*62.7-159*	0			
Surr: Dibromofluoromethane	55.98	0	*50*	0	*112*	*67.3-136*	0			
Surr: Toluene-d8	50.22	0	*50*	0	*100*	*81.5-110*	0			

MS Sample ID **1309267-02A MS** Units: **µg/Kg** Analysis Date: **9/20/2013 01:29 PM**
Client ID: Run ID: **VMS2_130920A** SeqNo: **680971** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	53.41	5.0	50	0	107	68.6-124	0			
m,p-Xylene	108.1	5.0	100	0	108	64.5-125	0			
Surr: 4-Bromofluorobenzene	49.04	0	*50*	0	*98.1*	*62.7-159*	0			
Surr: Dibromofluoromethane	51.33	0	*50*	0	*103*	*67.3-136*	0			
Surr: Toluene-d8	50.65	0	*50*	0	*101*	*81.5-110*	0			

MSD Sample ID **1309267-02A MSD** Units: **µg/Kg** Analysis Date: **9/20/2013 02:33 PM**
Client ID: Run ID: **VMS2_130920A** SeqNo: **680973** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	52.53	5.0	50	0	105	68.6-124	53.41	1.66	24.9	
m,p-Xylene	107.8	5.0	100	0	108	64.5-125	108.1	0.25	25.1	
Surr: 4-Bromofluorobenzene	48.56	0	*50*	0	*97.1*	*62.7-159*	49.04	*0.984*		
Surr: Dibromofluoromethane	50.92	0	*50*	0	*102*	*67.3-136*	51.33	*0.802*		
Surr: Toluene-d8	50.68	0	*50*	0	*101*	*81.5-110*	50.65	*0.0592*		

The following samples were analyzed in this batch: 1309339-01A 1309339-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102231** Instrument ID **VMS1** Method: **SW8260**

MBLK Sample ID **MBLK-R102231** Units: **µg/L** Analysis Date: **9/21/2013 07:50 AM**
Client ID: Run ID: **VMS1_130921A** SeqNo: **681352** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R102231** Instrument ID **VMS1** Method: **SW8260**

Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	5.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	5.0						
Surr: 4-Bromofluorobenzene	48.05	0	*50*	0	*96.1*	*61-131*	0	
Surr: Dibromofluoromethane	51.5	0	*50*	0	*103*	*87-126*	0	
Surr: Toluene-d8	51.16	0	*50*	0	*102*	*84-111*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102231** Instrument ID **VMS1** Method: **SW8260**

LCS Sample ID **LCS-R102231** Units: **µg/L** Analysis Date: **9/21/2013 08:20 AM**
Client ID: Run ID: **VMS1_130921A** SeqNo: **681353** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.88	5.0	50	0	89.8	48.4-140	0			
1,1-Dichloroethene	44.27	5.0	50	0	88.5	45.5-150	0			
1,2-Dichloroethane	44.25	5.0	50	0	88.5	46.5-141	0			
1,3-Dichlorobenzene	43.73	5.0	50	0	87.5	42.5-133	0			
1,4-Dichlorobenzene	43.03	5.0	50	0	86.1	38.9-136	0			
Benzene	45.53	5.0	50	0	91.1	50.7-134	0			
Carbon tetrachloride	45.17	5.0	50	0	90.3	45.5-143	0			
Chlorobenzene	43.39	5.0	50	0	86.8	45-133	0			
Chloroform	46.34	5.0	50	0	92.7	52.4-136	0			
cis-1,2-Dichloroethene	44.95	5.0	50	0	89.9	49.7-138	0			
Ethylbenzene	44.89	5.0	50	0	89.8	37.8-145	0			
m,p-Xylene	86.29	5.0	100	0	86.3	25.1-163	0			
Styrene	44.44	5.0	50	0	88.9	26.3-172	0			
Tetrachloroethene	42.69	5.0	50	0	85.4	37.3-139	0			
Toluene	45.18	5.0	50	0	90.4	44-135	0			
Trichloroethene	46.66	5.0	50	0	93.3	46.9-134	0			
Surr: 4-Bromofluorobenzene	50.17	0	*50*	0	*100*	*61-131*	0			
Surr: Dibromofluoromethane	52.09	0	*50*	0	*104*	*87-126*	0			
Surr: Toluene-d8	52.35	0	*50*	0	*105*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102231** Instrument ID **VMS1** Method: **SW8260**

MS Sample ID **1309244-09A MS** Units: **µg/L** Analysis Date: **9/21/2013 08:51 AM**
Client ID: Run ID: **VMS1_130921A** SeqNo: **681354** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.94	5.0	50	0	95.9	47.4-141	0			
1,1-Dichloroethene	47.43	5.0	50	0	94.9	56.3-140	0			
1,2-Dichloroethane	46.13	5.0	50	0	92.3	50.1-139	0			
1,3-Dichlorobenzene	48.22	5.0	50	0	96.4	53-127	0			
1,4-Dichlorobenzene	48.13	5.0	50	0	96.3	53.4-129	0			
Benzene	48.57	5.0	50	0	97.1	52.8-136	0			
Carbon tetrachloride	49.22	5.0	50	0	98.4	48.1-141	0			
Chlorobenzene	47.16	5.0	50	0	94.3	52.4-132	0			
Chloroform	49.09	5.0	50	0	98.2	52.9-136	0			
cis-1,2-Dichloroethene	48.32	5.0	50	0	96.6	63.5-128	0			
Ethylbenzene	48.32	5.0	50	0	96.6	46.5-146	0			
m,p-Xylene	93.01	5.0	100	0	93	38.2-167	0			
Styrene	47.96	5.0	50	0	95.9	20.9-184	0			
Tetrachloroethene	46.57	5.0	50	1.44	90.3	55.2-134	0			
Toluene	49.36	5.0	50	0	98.7	45.1-138	0			
Trichloroethene	50.6	5.0	50	0	101	52.8-133	0			
Surr: 4-Bromofluorobenzene	50.02	0	*50*	0	*100*	*61-131*	0			
Surr: Dibromofluoromethane	52.62	0	*50*	0	*105*	*87-126*	0			
Surr: Toluene-d8	51.95	0	*50*	0	*104*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102231** Instrument ID **VMS1** Method: **SW8260**

MSD Sample ID **1309244-09A MSD** Units: **µg/L** Analysis Date: **9/21/2013 09:21 AM**
Client ID: Run ID: **VMS1_130921A** SeqNo: **681355** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.51	5.0	50	0	99	47.4-141	47.94	3.22	20	
1,1-Dichloroethene	48.71	5.0	50	0	97.4	56.3-140	47.43	2.66	20	
1,2-Dichloroethane	44.84	5.0	50	0	89.7	50.1-139	46.13	2.84	20	
1,3-Dichlorobenzene	51	5.0	50	0	102	53-127	48.22	5.6	20	
1,4-Dichlorobenzene	48.69	5.0	50	0	97.4	53.4-129	48.13	1.16	20	
Benzene	50.04	5.0	50	0	100	52.8-136	48.57	2.98	20	
Carbon tetrachloride	51.23	5.0	50	0	102	48.1-141	49.22	4	20	
Chlorobenzene	49.23	5.0	50	0	98.5	52.4-132	47.16	4.3	20	
Chloroform	50.8	5.0	50	0	102	52.9-136	49.09	3.42	20	
cis-1,2-Dichloroethene	49.53	5.0	50	0	99.1	63.5-128	48.32	2.47	20	
Ethylbenzene	50.43	5.0	50	0	101	46.5-146	48.32	4.27	20	
m,p-Xylene	97.66	5.0	100	0	97.7	38.2-167	93.01	4.88	20	
Styrene	49.95	5.0	50	0	99.9	20.9-184	47.96	4.06	20	
Tetrachloroethene	49.18	5.0	50	1.44	95.5	55.2-134	46.57	5.45	20	
Toluene	51.5	5.0	50	0	103	45.1-138	49.36	4.24	20	
Trichloroethene	53.18	5.0	50	0	106	52.8-133	50.6	4.97	20	
Surr: 4-Bromofluorobenzene	49.89	0	*50*	0	*99.8*	*61-131*	50.02	*0.26*		
Surr: Dibromofluoromethane	51.92	0	*50*	0	*104*	*87-126*	52.62	*1.34*		
Surr: Toluene-d8	52.1	0	*50*	0	*104*	*84-111*	51.95	*0.288*		

The following samples were analyzed in this batch: 1309339-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102243** Instrument ID **VMS1** Method: **SW8260**

MBLK Sample ID **MBLK-R102243** Units: **mg/L** Analysis Date: **9/23/2013 09:17 AM**
Client ID: Run ID: **VMS1_130923A** SeqNo: **681555** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	0.0050								
1,2-Dichloroethane	ND	0.0050								
1,4-Dichlorobenzene	ND	0.0050								
2-Butanone	ND	0.0050								
Benzene	ND	0.0050								
Carbon tetrachloride	ND	0.0050								
Chlorobenzene	ND	0.0050								
Chloroform	ND	0.0050								
Tetrachloroethene	ND	0.0050								
Trichloroethene	ND	0.0050								
Vinyl chloride	ND	0.0050								
Surr: Bromofluorobenzene	0.04802	0	*0.05*	0	*96*	*70-130*	0			
Surr: Dibromofluoromethane	0.04951	0	*0.05*	0	*99*	*70-130*	0			
Surr: Toluene-d8	0.05151	0	*0.05*	0	*103*	*70-130*	0			

LCS Sample ID **LCS-R102243** Units: **mg/L** Analysis Date: **9/23/2013 08:47 AM**
Client ID: Run ID: **VMS1_130923A** SeqNo: **681554** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04422	0.0050	0.05	0	88.4	61.8-129	0			
1,2-Dichloroethane	0.04373	0.0050	0.05	0	87.5	70.8-122	0			
1,4-Dichlorobenzene	0.03866	0.0050	0.05	0	77.3	64.3-111	0			
2-Butanone	0.05874	0.0050	0.05	0	117	67.6-156	0			
Benzene	0.04403	0.0050	0.05	0	88.1	71.6-117	0			
Carbon tetrachloride	0.04528	0.0050	0.05	0	90.6	63.1-133	0			
Chlorobenzene	0.03916	0.0050	0.05	0	78.3	67.2-112	0			
Chloroform	0.0452	0.0050	0.05	0	90.4	63.9-128	0			
Tetrachloroethene	0.0393	0.0050	0.05	0	78.6	62.4-120	0			
Trichloroethene	0.0459	0.0050	0.05	0	91.8	68.9-121	0			
Vinyl chloride	0.04469	0.0050	0.05	0	89.4	38.6-150	0			
Surr: Bromofluorobenzene	0.05	0	*0.05*	0	*100*	*61-131*	0			
Surr: Dibromofluoromethane	0.05278	0	*0.05*	0	*106*	*87-126*	0			
Surr: Toluene-d8	0.05353	0	*0.05*	0	*107*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309339
Project: COTA

QC BATCH REPORT

Batch ID: **R102243** Instrument ID **VMS1** Method: **SW8260**

MS Sample ID **1309339-02C MS** Units: **mg/L** Analysis Date: **9/23/2013 10:48 AM**
Client ID: **DS#2** Run ID: **VMS1_130923A** SeqNo: **681558** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.9752	0.10	1	0	97.5	61-134	0			
1,2-Dichloroethane	0.8906	0.10	1	0	89.1	74.3-124	0			
1,4-Dichlorobenzene	0.9392	0.10	1	0	93.9	63.3-109	0			
2-Butanone	0.9348	0.10	1	0	93.5	77.4-165	0			
Benzene	0.9934	0.10	1	0	99.3	69.5-120	0			
Carbon tetrachloride	1.016	0.10	1	0	102	66.8-129	0			
Chlorobenzene	0.9592	0.10	1	0	95.9	69.6-112	0			
Chloroform	0.9902	0.10	1	0	99	66.3-127	0			
Tetrachloroethene	0.9646	0.10	1	0	96.5	62.9-125	0			
Trichloroethene	1.055	0.10	1	0	106	68.6-124	0			
Vinyl chloride	0.9402	0.10	1	0	94	38-145	0			
Surr: Bromofluorobenzene	0.9882	0	*1*	0	*98.8*	*61-131*	0			
Surr: Dibromofluoromethane	1.057	0	*1*	0	*106*	*87-126*	0			
Surr: Toluene-d8	1.049	0	*1*	0	*105*	*84-111*	0			

The following samples were analyzed in this batch: 1309339-01C 1309339-02C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Project: COTA
WorkOrder: **1309339**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/Kg	
µg/L	
mg/Kg	
mg/L	
mm/sec	
pH Units	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 18-Sep-13 14:43

Work Order: 1309339 | Received by: JNW

Checklist completed by Jan Wilcox (eSignature) 18-Sep-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 19-Sep-13 (Date)

Matrices:
Carrier name: Client

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 6.0

Cooler(s)/Kit(s):

	Yes	No	No VOA vials submitted
Water - VOA vials have zero headspace?	☑	☐	☐
Water - pH acceptable upon receipt?	☐	☐	N/A ☐
pH adjusted?	☐	☐	N/A ☐

pH adjusted by: _

Login Notes: Trip Blank included with samples, not listed on COC.

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

18-Sep-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Work Order: **1309325**

Dear Kelly,

ALS Environmental received 4 samples on 17-Sep-2013 05:25 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 18-Sep-13

Client: Shaw - CB&I
Project: COTA
Work Order: **1309325**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1309325-01	CS-1	Soil		9/17/2013 13:36	9/17/2013 17:25	☐
1309325-02	CS-2	Soil		9/17/2013 14:26	9/17/2013 17:25	☐
1309325-03	CS-3	Soil		9/17/2013 14:32	9/17/2013 17:25	☐
1309325-04	CS-4	Soil		9/17/2013 13:46	9/17/2013 17:25	☐

ALS Environmental

Date: 18-Sep-13

Client: Shaw - CB&I
Project: COTA
Work Order: 1309325

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *18-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309325

Lab ID: 1309325-01A
Client Sample ID: CS-1

Collection Date: 9/17/2013 1:36:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1248	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**18**		**0.010**	**% of sample**	1	9/18/2013

Lab ID: 1309325-02A
Client Sample ID: CS-2

Collection Date: 9/17/2013 2:26:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.099	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.099	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.099	mg/Kg	1	9/18/2013
Aroclor 1248	**2.0**		**0.099**	**mg/Kg**	1	9/18/2013
Aroclor 1254	ND		0.099	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.099	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**17**		**0.010**	**% of sample**	1	9/18/2013

Note:

ALS Environmental

Date: *18-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309325

Lab ID: 1309325-03A
Client Sample ID: CS-3

Collection Date: 9/17/2013 2:32:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1248	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**16**		**0.010**	**% of sample**	1	9/18/2013

Note:

ALS Environmental

Date: *18-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309325

Lab ID: 1309325-04A
Client Sample ID: CS-4

Collection Date: 9/17/2013 1:46:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/18/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/18/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1248	**0.33**		**0.10**	**mg/Kg**	1	9/18/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/18/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/18/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **KMW**
Moisture	**15**		**0.010**	**% of sample**	1	9/18/2013
MERCURY BY CVAA			**SW7471A**		Prep Date: **9/18/2013**	Analyst: **SLW**
Mercury	ND		0.28	mg/Kg	1	9/18/2013 03:25 PM
METALS BY ICP			**SW6010B**		Prep Date: **9/18/2013**	Analyst: **VAW**
Arsenic	**27**		**4.9**	**mg/Kg**	1	9/18/2013 11:30 AM
Barium	**88**		**9.9**	**mg/Kg**	1	9/18/2013 11:30 AM
Cadmium	ND		0.99	mg/Kg	1	9/18/2013 11:30 AM
Chromium	**11**		**4.9**	**mg/Kg**	1	9/18/2013 11:30 AM
Lead	**22**		**4.9**	**mg/Kg**	1	9/18/2013 11:30 AM
Selenium	ND		3.0	mg/Kg	1	9/18/2013 11:30 AM
Silver	ND		0.99	mg/Kg	1	9/18/2013 11:30 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270C**		Prep Date: **9/18/2013**	Analyst: **JCL**
1,2,4,5-Tetrachlorobenzene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1,2,4-Trichlorobenzene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1,2-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1,3-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1,3-Dinitrobenzene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1,4-Dichlorobenzene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1-Methylnaphthalene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
1-Naphthylamine	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,3,4,6-Tetrachlorophenol	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,4,5-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,4,6-Trichlorophenol	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,4-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,4-Dimethylphenol	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,4-Dinitrophenol	ND		1,600	µg/Kg	1	9/18/2013 03:31 PM
2,4-Dinitrotoluene	ND		330	µg/Kg	1	9/18/2013 03:31 PM
2,6-Dichlorophenol	ND		330	µg/Kg	1	9/18/2013 03:31 PM

Note:

2,6-Dinitrotoluene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Acetylaminofluorene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Chloronaphthalene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Chlorophenol	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Methylnaphthalene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Methylphenol	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Naphthylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Nitroaniline	ND	1,600	µg/Kg	1	9/18/2013 03:31 PM
2-Nitrophenol	ND	330	µg/Kg	1	9/18/2013 03:31 PM
2-Picoline	ND	330	µg/Kg	1	9/18/2013 03:31 PM
3&4-Methylphenol	ND	330	µg/Kg	1	9/18/2013 03:31 PM
3,3`-Dichlorobenzidine	ND	660	µg/Kg	1	9/18/2013 03:31 PM
3-Methylcholanthrene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
3-Nitroaniline	ND	1,600	µg/Kg	1	9/18/2013 03:31 PM
4,6-Dinitro-2-methylphenol	ND	1,600	µg/Kg	1	9/18/2013 03:31 PM
4-Aminobiphenyl	ND	660	µg/Kg	1	9/18/2013 03:31 PM
4-Bromophenyl phenyl ether	ND	330	µg/Kg	1	9/18/2013 03:31 PM
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	9/18/2013 03:31 PM
4-Chloroaniline	ND	660	µg/Kg	1	9/18/2013 03:31 PM
4-Chlorophenyl phenyl ether	ND	330	µg/Kg	1	9/18/2013 03:31 PM
4-Nitroaniline	ND	660	µg/Kg	1	9/18/2013 03:31 PM
4-Nitrophenol	ND	1,600	µg/Kg	1	9/18/2013 03:31 PM
4-Nitroquinoline 1-oxide	ND	330	µg/Kg	1	9/18/2013 03:31 PM
5-Nitro-o-toluidine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
7,12-Dimethylbenz(a)anthracene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Acenaphthene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Acenaphthylene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Acetophenone	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Aniline	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Anthracene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Azobenzene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzidine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzo(a)anthracene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzo(a)pyrene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzo(b)fluoranthene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzo(g,h,i)perylene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzo(k)fluoranthene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Benzyl alcohol	ND	660	µg/Kg	1	9/18/2013 03:31 PM
Bis(2-chloroethoxy)methane	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Bis(2-chloroethyl)ether	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Bis(2-chloroisopropyl)ether	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Bis(2-ethylhexyl)phthalate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Butyl benzyl phthalate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Carbazole	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Chrysene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Dibenzo(a,h)anthracene	ND	330	µg/Kg	1	9/18/2013 03:31 PM

Note:

Dibenzofuran	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Diethyl phthalate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Dimethyl phthalate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Di-n-butyl phthalate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Di-n-octyl phthalate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Dinoseb	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Diphenylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Ethyl methanesulfonate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Fluoranthene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Fluorene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Hexachlorobenzene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Hexachlorobutadiene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Hexachlorocyclopentadiene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Hexachloroethane	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Indeno(1,2,3-cd)pyrene	ND	150	µg/Kg	1	9/18/2013 03:31 PM
Isophorone	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Isosafrole	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Methapyrilene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Methyl methanesulfonate	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Naphthalene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Nitrobenzene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosodiethylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosodimethylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitroso-di-n-butylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosodi-n-propylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosomethylethylamine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosomorpholine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosopiperidine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
N-Nitrosopyrrolidine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
o-Toluidine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
p-Dimethylaminoazobenzene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Pentachlorobenzene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Pentachloroethane	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Pentachloronitrobenzene	ND	660	µg/Kg	1	9/18/2013 03:31 PM
Pentachlorophenol	ND	1,600	µg/Kg	1	9/18/2013 03:31 PM
Phenacetin	ND	660	µg/Kg	1	9/18/2013 03:31 PM
Phenanthrene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Phenol	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Pyrene	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Pyridine	ND	330	µg/Kg	1	9/18/2013 03:31 PM
Safrole	ND	330	µg/Kg	1	9/18/2013 03:31 PM

Note:

ALS Environmental

Date: *18-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309325

Lab ID: 1309325-04B
Client Sample ID: CS-4

Collection Date: 9/17/2013 1:46:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,1-Dichloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,1-Dichloroethene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,1-Dichloropropene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2,4-Trimethylbenzene	**120**		**25**	**µg/Kg**	5	9/18/2013 09:53 AM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2-Dibromoethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2-Dichloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,2-Dichloropropane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,3,5-Trimethylbenzene	**38**		**25**	**µg/Kg**	5	9/18/2013 09:53 AM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,3-Dichloropropane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
1,4-Dichlorobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
2,2-Dichloropropane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
2-Butanone	**100**		**25**	**µg/Kg**	5	9/18/2013 09:53 AM
2-Chlorotoluene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
2-Hexanone	ND		25	µg/Kg	5	9/18/2013 09:53 AM
4-Chlorotoluene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Acetone	**110**		**25**	**µg/Kg**	5	9/18/2013 09:53 AM
Benzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Bromobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Bromochloromethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Bromodichloromethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Bromoform	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Bromomethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Carbon disulfide	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Carbon tetrachloride	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Chlorobenzene	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Chloroethane	ND		25	µg/Kg	5	9/18/2013 09:53 AM
Chloroform	ND		25	µg/Kg	5	9/18/2013 09:53 AM

Note:

Chloromethane	ND	25	µg/Kg	5	9/18/2013 09:53 AM
cis-1,2-Dichloroethene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
cis-1,3-Dichloropropene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Dibromochloromethane	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Dibromomethane	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Dichlorodifluoromethane	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Ethylbenzene	**1,600**	**620**	**µg/Kg**	125	9/18/2013 11:48 AM
Hexachlorobutadiene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Isopropylbenzene	**95**	**25**	**µg/Kg**	5	9/18/2013 09:53 AM
m,p-Xylene	**7,500**	**620**	**µg/Kg**	125	9/18/2013 11:48 AM
Methyl tert-butyl ether	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Methylene chloride	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Naphthalene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
n-Butylbenzene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
n-Propylbenzene	**74**	**25**	**µg/Kg**	5	9/18/2013 09:53 AM
o-Xylene	**1,500**	**620**	**µg/Kg**	125	9/18/2013 11:48 AM
p-Isopropyltoluene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
sec-Butylbenzene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Styrene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
tert-Butylbenzene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Tetrachloroethene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Toluene	**43**	**25**	**µg/Kg**	5	9/18/2013 09:53 AM
trans-1,2-Dichloroethene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
trans-1,3-Dichloropropene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Trichloroethene	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Trichlorofluoromethane	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Vinyl chloride	ND	25	µg/Kg	5	9/18/2013 09:53 AM
Xylenes, Total	**9,100**	**620**	**µg/Kg**	125	9/18/2013 11:48 AM

Note:

ALS Environmental

Date: 18-Sep-13

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18659** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-18659-18659** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: Run ID: **GC9_130918A** SeqNo: **679055** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0834	0	*0.1*	0	*83.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0986	0	*0.1*	0	*98.6*	*34-145*	0			

LCS Sample ID **LCS-18659-18659** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: Run ID: **GC9_130918A** SeqNo: **679056** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.632	0.10	2	0	81.6	50-133	0			
Surr: Decachlorobiphenyl	0.0854	0	*0.1*	0	*85.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0998	0	*0.1*	0	*99.8*	*34-145*	0			

MS Sample ID **1309324-02BMS** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: Run ID: **GC9_130918A** SeqNo: **679059** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.839	0.10	2.024	0	90.9	31-150	0			
Surr: Decachlorobiphenyl	0.08522	0	*0.1012*	0	*84.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.09676	0	*0.1012*	0	*95.6*	*34-145*	0			

MSD Sample ID **1309324-02BMSD** Units: **mg/Kg** Analysis Date: **9/18/2013**
Client ID: Run ID: **GC9_130918A** SeqNo: **679060** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.819	0.10	2.008	0	90.6	31-150	1.839	1.1	53	
Surr: Decachlorobiphenyl	0.08394	0	*0.1004*	0	*83.6*	*22-156*	0.08522	*1.52*		
Surr: Tetrachloro-m-xylene	0.09458	0	*0.1004*	0	*94.2*	*34-145*	0.09676	*2.28*		

The following samples were analyzed in this batch:

1309325-01A	1309325-02A	1309325-03A
1309325-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18657** Instrument ID **HG1** Method: **SW7471A**

MBLK Sample ID **MBLK-18657-18657** Units: **mg/Kg** Analysis Date: **9/18/2013 03:23 PM**
Client ID: Run ID: **HG1_130918B** SeqNo: **679008** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.30								

LCS Sample ID **LCS-18657-18657** Units: **mg/Kg** Analysis Date: **9/18/2013 03:19 PM**
Client ID: Run ID: **HG1_130918B** SeqNo: **679006** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.124	0.28	1.052	0	107	69-147	0			

LCSD Sample ID **LCSD-18657-18657** Units: **mg/Kg** Analysis Date: **9/18/2013 03:21 PM**
Client ID: Run ID: **HG1_130918B** SeqNo: **679007** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.151	0.30	1.107	0	104	69-147	1.124	2.44	20	

MS Sample ID **1309320-01B MS** Units: **mg/Kg** Analysis Date: **9/18/2013 03:42 PM**
Client ID: Run ID: **HG1_130918B** SeqNo: **679015** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.189	0.29	0.8029	0.4033	97.8	69-147	0			

MSD Sample ID **1309320-01B MSD** Units: **mg/Kg** Analysis Date: **9/18/2013 03:44 PM**
Client ID: Run ID: **HG1_130918B** SeqNo: **679016** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.153	0.28	0.7746	0.4033	96.8	69-147	1.189	3.04	20	

The following samples were analyzed in this batch: 1309325-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18652** Instrument ID **ICP2** Method: **SW6010B**

MBLK Sample ID **mblk-18652-18652** Units: **mg/Kg** Analysis Date: **9/18/2013 09:55 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678907** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	5.0								
Barium	ND	10								
Cadmium	ND	1.0								
Chromium	ND	2.0								
Lead	ND	5.0								
Selenium	ND	3.0								
Silver	ND	1.0								

LCS Sample ID **lcs-18652-18652** Units: **mg/Kg** Analysis Date: **9/18/2013 10:02 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678908** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	104.9	5.0	100	0	105	80-120	0			
Barium	109	10	100	0	109	80-120	0			
Cadmium	108	1.0	100	0	108	80-120	0			
Chromium	97.53	2.0	100	0	97.5	80-120	0			
Lead	110.9	5.0	100	0	111	80-120	0			
Selenium	105.7	3.0	100	0	106	80-120	0			
Silver	101.6	1.0	100	0	102	80-120	0			

LCSD Sample ID **lcsd-18652-18652** Units: **mg/Kg** Analysis Date: **9/18/2013 10:09 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678909** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	105.9	5.0	100	0	106	80-120	104.9	0.949	20	
Barium	109.2	10	100	0	109	80-120	109	0.183	20	
Cadmium	108.7	1.0	100	0	109	80-120	108	0.646	20	
Chromium	98.99	2.0	100	0	99	80-120	97.53	1.49	20	
Lead	111.8	5.0	100	0	112	80-120	110.9	0.808	20	
Selenium	106.7	3.0	100	0	107	80-120	105.7	0.942	20	
Silver	101.3	1.0	100	0	101	80-120	101.6	0.296	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18652** Instrument ID **ICP2** Method: **SW6010B**

MS Sample ID **1309320-01b ms** Units: **mg/Kg** Analysis Date: **9/18/2013 10:22 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678911** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	110.7	5.0	99.74	12.98	98	75-125	0			
Barium	192.5	10	99.74	104.8	87.9	75-125	0			
Cadmium	100.9	1.0	99.74	0.1515	101	75-125	0			
Chromium	106.5	2.0	99.74	13.9	92.9	75-125	0			
Lead	626.2	5.0	99.74	387.1	240	75-125	0			S
Selenium	99.7	3.0	99.74	1.667	98.3	75-125	0			
Silver	95.22	1.0	99.74	0.02974	95.4	75-125	0			

MSD Sample ID **1309320-01b msd** Units: **mg/Kg** Analysis Date: **9/18/2013 10:29 AM**
Client ID: Run ID: **ICP2_130918B** SeqNo: **678912** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	114.6	5.0	99.84	12.98	102	75-125	110.7	3.47	20	
Barium	212.8	10	99.84	104.8	108	75-125	192.5	10	20	
Cadmium	102	1.0	99.84	0.1515	102	75-125	100.9	1.08	20	
Chromium	109.5	2.0	99.84	13.9	95.8	75-125	106.5	2.78	20	
Lead	854.4	5.0	99.84	387.1	468	75-125	626.2	30.8	20	SR
Selenium	100.5	3.0	99.84	1.667	99	75-125	99.7	0.837	20	
Silver	95.14	1.0	99.84	0.02974	95.3	75-125	95.22	0.0889	20	

The following samples were analyzed in this batch: 1309325-04a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

MBLK Sample ID **MBLK-18664-18664** Units: **µg/Kg** Analysis Date: **9/18/2013 12:50 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679110** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3`-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
Surr: 2,4,6-Tribromophenol	2492	0	*3330*	0	*74.8*	*18-115*	0
Surr: 2-Fluorobiphenyl	929.3	0	*1670*	0	*55.6*	*30-116*	0
Surr: 2-Fluorophenol	1467	0	*3330*	0	*44.1*	*24-105*	0
Surr: 4-Terphenyl-d14	1049	0	*1670*	0	*62.8*	*40-127*	0
Surr: Nitrobenzene-d5	993.7	0	*1670*	0	*59.5*	*32-106*	0
Surr: Phenol-d5	1770	0	*3330*	0	*53.2*	*39-123*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

LCS Sample ID **LCS-18664-18664** Units: **µg/Kg** Analysis Date: **9/18/2013 01:22 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679111** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1190	330	1670	0	71.3	48.1-106	0			
1,4-Dichlorobenzene	1124	330	1670	0	67.3	55.5-89.4	0			
2,4-Dinitrotoluene	1445	330	1670	0	86.5	58.8-123	0			
2-Chlorophenol	1395	330	1670	0	83.5	34.7-116	0			
4-Chloro-3-methylphenol	1472	660	1670	0	88.2	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	86	36.2-146	0			
Acenaphthene	1244	330	1670	0	74.5	67.8-104	0			
Acenaphthylene	1309	330	1670	0	78.4	65.6-103	0			
Anthracene	1245	330	1670	0	74.5	71.1-107	0			
Benzo(a)anthracene	1189	330	1670	0	71.2	60.4-118	0			
Benzo(a)pyrene	1342	330	1670	0	80.4	73.7-110	0			
Benzo(b)fluoranthene	1060	330	1670	0	63.5	59.9-94.8	0			
Benzo(g,h,i)perylene	1207	330	1670	0	72.3	40-129	0			
Benzo(k)fluoranthene	1632	330	1670	0	97.7	75.7-130	0			
Carbazole	1497	330	1670	0	89.6	72.7-130	0			
Chrysene	1529	330	1670	0	91.6	62.3-115	0			
Dibenzo(a,h)anthracene	1157	330	1670	0	69.3	59.2-121	0			
Fluoranthene	1338	330	1670	0	80.1	63-120	0			
Fluorene	1238	330	1670	0	74.1	69-106	0			
Indeno(1,2,3-cd)pyrene	1379	150	1670	0	82.6	59-110	0			
Naphthalene	1164	330	1670	0	69.7	49.1-103	0			
N-Nitrosodi-n-propylamine	1396	330	1670	0	83.6	25.3-127	0			
Pentachlorophenol	ND	1,600	1670	0	70.4	22.1-105	0			
Phenanthrene	1246	330	1670	0	74.6	70-112	0			
Phenol	1260	330	1670	0	75.4	36.9-97.8	0			
Pyrene	1263	330	1670	0	75.6	55-117	0			
Surr: 2,4,6-Tribromophenol	2219	0	*3330*	0	*66.6*	*18-115*	0			
Surr: 2-Fluorobiphenyl	1160	0	*1670*	0	*69.5*	*30-116*	0			
Surr: 2-Fluorophenol	2151	0	*3330*	0	*64.6*	*24-105*	0			
Surr: 4-Terphenyl-d14	1135	0	*1670*	0	*68*	*40-127*	0			
Surr: Nitrobenzene-d5	1291	0	*1670*	0	*77.3*	*32-106*	0			
Surr: Phenol-d5	2186	0	*3330*	0	*65.6*	*39-123*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

MS Sample ID **1309267-04BMSS** Units: **µg/Kg** Analysis Date: **9/18/2013 04:03 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679116** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1145	330	1669	0	68.6	50.6-92	0			
1,4-Dichlorobenzene	992.3	330	1669	0	59.5	40.1-84.3	0			
2,4-Dinitrotoluene	1320	330	1669	0	79.1	50.3-127	0			
2-Chlorophenol	1234	330	1669	0	74	33.3-109	0			
4-Chloro-3-methylphenol	1355	660	1669	0	81.2	35.8-116	0			
4-Nitrophenol	1639	1,600	1669	0	98.2	38.7-135	0			
Acenaphthene	1135	330	1669	0	68	54.1-109	0			
Acenaphthylene	1181	330	1669	0	70.8	55.3-118	0			
Anthracene	1177	330	1669	0	70.5	51-106	0			
Benzo(a)anthracene	1052	330	1669	0	63	31.6-128	0			
Benzo(a)pyrene	1244	330	1669	0	74.5	66.1-109	0			
Benzo(b)fluoranthene	1086	330	1669	0	65.1	56.8-87.8	0			
Benzo(g,h,i)perylene	1025	330	1669	0	61.4	37.7-113	0			
Benzo(k)fluoranthene	1503	330	1669	0	90.1	57-119	0			
Carbazole	1408	330	1669	0	84.4	28.5-114	0			
Chrysene	1398	330	1669	0	83.8	46.3-104	0			
Dibenzo(a,h)anthracene	1042	330	1669	0	62.5	48.8-123	0			
Fluoranthene	1220	330	1669	0	73.1	52-120	0			
Fluorene	1158	330	1669	0	69.4	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1263	150	1669	0	75.7	56.1-118	0			
Naphthalene	1097	330	1669	0	65.7	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1284	330	1669	0	76.9	46.5-116	0			
Pentachlorophenol	ND	1,600	1669	0	68	28.9-156	0			
Phenanthrene	1201	330	1669	0	71.9	52-105	0			
Phenol	1140	330	1669	0	68.3	25.9-90.3	0			
Pyrene	1199	330	1669	0	71.9	51-111	0			
Surr: 2,4,6-Tribromophenol	2230	0	*3328*	0	*67*	*18-115*	0			
Surr: 2-Fluorobiphenyl	1080	0	*1669*	0	*64.7*	*30-116*	0			
Surr: 2-Fluorophenol	1971	0	*3328*	0	*59.2*	*24-105*	0			
Surr: 4-Terphenyl-d14	1012	0	*1669*	0	*60.6*	*40-127*	0			
Surr: Nitrobenzene-d5	1153	0	*1669*	0	*69.1*	*32-106*	0			
Surr: Phenol-d5	1963	0	*3328*	0	*59*	*39-123*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **18664** Instrument ID **SVMS2** Method: **SW8270C**

MSD Sample ID **1309267-04BMSDD** Units: **µg/Kg** Analysis Date: **9/18/2013 04:36 PM**
Client ID: Run ID: **SVMS2_130918A** SeqNo: **679117** Prep Date: **9/18/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1046	330	1668	0	62.7	50.6-92	1145	9.04	18	
1,4-Dichlorobenzene	855.5	330	1668	0	51.3	40.1-84.3	992.3	14.8	20	
2,4-Dinitrotoluene	1259	330	1668	0	75.5	50.3-127	1320	4.77	20	
2-Chlorophenol	1221	330	1668	0	73.2	33.3-109	1234	1.07	20	
4-Chloro-3-methylphenol	1271	660	1668	0	76.2	35.8-116	1355	6.36	20	
4-Nitrophenol	ND	1,600	1668	0	87.9	38.7-135	1639	0	20	
Acenaphthene	1133	330	1668	0	68	54.1-109	1135	0.125	20	
Acenaphthylene	1177	330	1668	0	70.6	55.3-118	1181	0.321	20	
Anthracene	1231	330	1668	0	73.8	51-106	1177	4.53	20	
Benzo(a)anthracene	1030	330	1668	0	61.8	31.6-128	1052	2.08	20	
Benzo(a)pyrene	1277	330	1668	0	76.6	66.1-109	1244	2.63	20	
Benzo(b)fluoranthene	1110	330	1668	0	66.5	56.8-87.8	1086	2.12	20	
Benzo(g,h,i)perylene	1166	330	1668	0	69.9	37.7-113	1025	12.9	20	
Benzo(k)fluoranthene	1434	330	1668	0	86	57-119	1503	4.72	20	
Carbazole	1273	330	1668	0	76.3	28.5-114	1408	10	20	
Chrysene	1441	330	1668	0	86.4	46.3-104	1398	3.03	21	
Dibenzo(a,h)anthracene	1022	330	1668	0	61.3	48.8-123	1042	1.94	20	
Fluoranthene	1155	330	1668	0	69.3	52-120	1220	5.42	20	
Fluorene	1166	330	1668	0	69.9	54.8-113	1158	0.679	20	
Indeno(1,2,3-cd)pyrene	1373	150	1668	0	82.3	56.1-118	1263	8.3	20	
Naphthalene	1016	330	1668	0	60.9	51.1-99.3	1097	7.66	20	
N-Nitrosodi-n-propylamine	1261	330	1668	0	75.6	46.5-116	1284	1.85	17	
Pentachlorophenol	ND	1,600	1668	0	70.6	28.9-156	1136	0	20	
Phenanthrene	1171	330	1668	0	70.2	52-105	1201	2.48	20	
Phenol	1121	330	1668	0	67.2	25.9-90.3	1140	1.75	17	
Pyrene	1145	330	1668	0	68.7	51-111	1199	4.58	20	
Surr: 2,4,6-Tribromophenol	2317	0	*3326*	0	*69.7*	*18-115*	2230	*3.84*		
Surr: 2-Fluorobiphenyl	1041	0	*1668*	0	*62.4*	*30-116*	1080	*3.71*		
Surr: 2-Fluorophenol	1805	0	*3326*	0	*54.3*	*24-105*	1971	*8.8*		
Surr: 4-Terphenyl-d14	948.7	0	*1668*	0	*56.9*	*40-127*	1012	*6.42*		
Surr: Nitrobenzene-d5	1125	0	*1668*	0	*67.5*	*32-106*	1153	*2.38*		
Surr: Phenol-d5	1938	0	*3326*	0	*58.3*	*39-123*	1963	*1.31*		

The following samples were analyzed in this batch: 1309325-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

MBLK Sample ID **MBLK-R102135** Units: **µg/Kg** Analysis Date: **9/18/2013 08:19 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678878** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

Dibromomethane	ND	5.0								
Dichlorodifluoromethane	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Isopropylbenzene	ND	5.0								
Methyl tert-butyl ether	ND	5.0								
Methylene chloride	ND	5.0								
Naphthalene	ND	5.0								
n-Butylbenzene	ND	5.0								
n-Propylbenzene	ND	5.0								
p-Isopropyltoluene	ND	5.0								
sec-Butylbenzene	ND	5.0								
Styrene	ND	5.0								
tert-Butylbenzene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,2-Dichloroethene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Trichlorofluoromethane	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 4-Bromofluorobenzene	51.22	0	*50*	0	*102*	*62.7-159*	0			
Surr: Dibromofluoromethane	47.75	0	*50*	0	*95.5*	*67.3-136*	0			
Surr: Toluene-d8	49.25	0	*50*	0	*98.5*	*81.5-110*	0			

LCS Sample ID **LCS-R102135** Units: **µg/Kg** Analysis Date: **9/18/2013 07:48 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678877** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.83	5.0	50	0	104	70-132	0			
1,1-Dichloroethene	47.65	5.0	50	0	95.3	61.2-140	0			
1,2-Dichloroethane	51.14	5.0	50	0	102	67.3-139	0			
1,3-Dichlorobenzene	55.66	5.0	50	0	111	67.5-126	0			
1,4-Dichlorobenzene	54.79	5.0	50	0	110	69.5-124	0			
Benzene	51.69	5.0	50	0	103	67.2-135	0			
Carbon tetrachloride	51.5	5.0	50	0	103	68.6-138	0			
Chlorobenzene	52.87	5.0	50	0	106	66.4-133	0			
Chloroform	51.88	5.0	50	0	104	68.2-127	0			
cis-1,2-Dichloroethene	50.1	5.0	50	0	100	62.1-135	0			
Styrene	50.19	5.0	50	0	100	67.6-134	0			
Tetrachloroethene	51.56	5.0	50	0	103	70.3-144	0			
Toluene	51.37	5.0	50	0	103	67.8-130	0			
Trichloroethene	51.8	5.0	50	0	104	68.5-136	0			
Surr: 4-Bromofluorobenzene	49.75	0	*50*	0	*99.5*	*62.7-159*	0			
Surr: Dibromofluoromethane	51.27	0	*50*	0	*103*	*67.3-136*	0			
Surr: Toluene-d8	49.46	0	*50*	0	*98.9*	*81.5-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **R102135** Instrument ID **VMS2** Method: **SW8260**

MS Sample ID **1309167-03A MS** Units: **µg/Kg** Analysis Date: **9/18/2013 09:22 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678880** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	59.47	5.0	50	0	119	66.9-140	0			
1,1-Dichloroethene	57.79	5.0	50	0	116	65.9-143	0			
1,2-Dichloroethane	53.94	5.0	50	0	108	73-135	0			
1,3-Dichlorobenzene	58.76	5.0	50	0	118	61.2-125	0			
1,4-Dichlorobenzene	57.91	5.0	50	0	116	62.3-123	0			
Benzene	58.23	5.0	50	0	116	35.8-162	0			
Carbon tetrachloride	57.72	5.0	50	0	115	71.4-130	0			
Chlorobenzene	57.71	5.0	50	0	115	65.6-137	0			
Chloroform	56.77	5.0	50	0	114	69.6-128	0			
cis-1,2-Dichloroethene	55.65	5.0	50	0	111	68.8-130	0			
Styrene	57.04	5.0	50	0	114	65.9-125	0			
Tetrachloroethene	58.14	5.0	50	0	116	71.6-135	0			
Toluene	57.32	5.0	50	0	115	67.7-135	0			
Trichloroethene	60.29	5.0	50	0	121	70.9-139	0			
Surr: 4-Bromofluorobenzene	50.23	0	*50*	0	*100*	*62.7-159*	0			
Surr: Dibromofluoromethane	48.08	0	*50*	0	*96.2*	*67.3-136*	0			
Surr: Toluene-d8	50.6	0	*50*	0	*101*	*81.5-110*	0			

MSD Sample ID **1309167-03A MSD** Units: **µg/Kg** Analysis Date: **9/18/2013 10:25 AM**
Client ID: Run ID: **VMS2_130918A** SeqNo: **678882** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.88	5.0	50	0	99.8	66.9-140	59.47	17.5	20	
1,1-Dichloroethene	51.3	5.0	50	0	103	65.9-143	57.79	11.9	20	
1,2-Dichloroethane	44.97	5.0	50	0	89.9	73-135	53.94	18.1	20	
1,3-Dichlorobenzene	49.06	5.0	50	0	98.1	61.2-125	58.76	18	21	
1,4-Dichlorobenzene	47.61	5.0	50	0	95.2	62.3-123	57.91	19.5	22.5	
Benzene	48.76	5.0	50	0	97.5	35.8-162	58.23	17.7	23.6	
Carbon tetrachloride	51.92	5.0	50	0	104	71.4-130	57.72	10.6	22.9	
Chlorobenzene	47.46	5.0	50	0	94.9	65.6-137	57.71	19.5	20	
Chloroform	48.44	5.0	50	0	96.9	69.6-128	56.77	15.8	23.1	
cis-1,2-Dichloroethene	47.22	5.0	50	0	94.4	68.8-130	55.65	16.4	23.7	
Styrene	47.91	5.0	50	0	95.8	65.9-125	57.04	17.4	22.8	
Tetrachloroethene	50.94	5.0	50	0	102	71.6-135	58.14	13.2	24.7	
Toluene	48.72	5.0	50	0	97.4	67.7-135	57.32	16.2	20	
Trichloroethene	50.08	5.0	50	0	100	70.9-139	60.29	18.5	20	
Surr: 4-Bromofluorobenzene	49.11	0	*50*	0	*98.2*	*62.7-159*	50.23	*2.25*		
Surr: Dibromofluoromethane	49.83	0	*50*	0	*99.7*	*67.3-136*	48.08	*3.57*		
Surr: Toluene-d8	49.99	0	*50*	0	*100*	*81.5-110*	50.6	*1.21*		

The following samples were analyzed in this batch: 1309325-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Shaw - CB&I
Work Order: 1309325
Project: COTA

QC BATCH REPORT

Batch ID: **R102136** Instrument ID **VMS1** Method: **SW8260**

MBLK Sample ID **MBLK-R102136** Units: **µg/L** Analysis Date: **9/18/2013 07:47 AM**
Client ID: Run ID: **VMS1_130918A** SeqNo: **678887** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	5.0								
o-Xylene	ND	5.0								
Xylenes, Total	ND	5.0								
Surr: 4-Bromofluorobenzene	47.18	0	*50*	0	*94.4*	*61-131*	0			
Surr: Dibromofluoromethane	48.5	0	*50*	0	*97*	*87-126*	0			
Surr: Toluene-d8	50.79	0	*50*	0	*102*	*84-111*	0			

LCS Sample ID **LCS-R102136** Units: **µg/L** Analysis Date: **9/18/2013 09:17 AM**
Client ID: Run ID: **VMS1_130918A** SeqNo: **678889** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	37.14	5.0	50	0	74.3	37.8-145	0			
m,p-Xylene	75.11	5.0	100	0	75.1	25.1-163	0			
Surr: 4-Bromofluorobenzene	47.99	0	*50*	0	*96*	*61-131*	0			
Surr: Dibromofluoromethane	48.93	0	*50*	0	*97.9*	*87-126*	0			
Surr: Toluene-d8	51.56	0	*50*	0	*103*	*84-111*	0			

MS Sample ID **1309192-03A MS** Units: **µg/L** Analysis Date: **9/18/2013 10:17 AM**
Client ID: Run ID: **VMS1_130918A** SeqNo: **678891** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	48.57	5.0	50	0	97.1	46.5-146	0			
m,p-Xylene	96.98	5.0	100	0	97	38.2-167	0			
Surr: 4-Bromofluorobenzene	49.61	0	*50*	0	*99.2*	*61-131*	0			
Surr: Dibromofluoromethane	50.6	0	*50*	0	*101*	*87-126*	0			
Surr: Toluene-d8	51.28	0	*50*	0	*103*	*84-111*	0			

MSD Sample ID **1309192-03A MSD** Units: **µg/L** Analysis Date: **9/18/2013 11:18 AM**
Client ID: Run ID: **VMS1_130918A** SeqNo: **678893** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	51.63	5.0	50	0	103	46.5-146	48.57	6.11	20	
m,p-Xylene	102.8	5.0	100	0	103	38.2-167	96.98	5.79	20	
Surr: 4-Bromofluorobenzene	48.44	0	*50*	0	*96.9*	*61-131*	49.61	*2.39*		
Surr: Dibromofluoromethane	50.7	0	*50*	0	*101*	*87-126*	50.6	*0.197*		
Surr: Toluene-d8	52	0	*50*	0	*104*	*84-111*	51.28	*1.39*		

The following samples were analyzed in this batch: 1309325-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 18-Sep-13

Client: Shaw - CB&I
Project: COTA
WorkOrder: **1309325**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/Kg	
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 17-Sep-13 17:25

Work Order: 1309325 | Received by: SEG

Checklist completed by Shiloh Greenwald (eSignature) 17-Sep-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 18-Sep-13 (Date)

Matrices:

Carrier name: Courier

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 2.3

Cooler(s)/Kit(s):

	Yes	No		
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted	☑
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: -

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

19-Sep-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA Work Order: **1309342**

Dear Kelly,

ALS Environmental received 9 samples on 18-Sep-2013 02:43 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Project: COTA
Work Order: **1309342**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1309342-01	CS-11	Soil		9/17/2013 17:20	9/18/2013 14:43	☐
1309342-02	CS-12	Soil		9/17/2013	9/18/2013 14:43	☐
1309342-03	CS-8	Soil		9/17/2013 15:30	9/18/2013 14:43	☐
1309342-04	CS-6	Soil		9/17/2013 17:05	9/18/2013 14:43	☐
1309342-05	CS-5	Soil		9/17/2013 17:09	9/18/2013 14:43	☐
1309342-06	CS-7	Soil		9/17/2013 17:00	9/18/2013 14:43	☐
1309342-07	CS-10	Soil		9/17/2013 17:15	9/18/2013 14:43	☐
1309342-08	CS-9	Soil		9/17/2013 17:25	9/18/2013 14:43	☐
1309342-09	CS-12 Duplicate	Soil		9/17/2013	9/18/2013 14:43	☐

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Project: COTA
Work Order: 1309342

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309342

Lab ID: 1309342-01A
Client Sample ID: CS-11

Collection Date: 9/17/2013 5:20:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1221	ND		0.99	mg/Kg	5	9/19/2013
Aroclor 1232	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1242	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1248	**25**		**0.50**	**mg/Kg**	5	9/19/2013
Aroclor 1254	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1260	ND		0.50	mg/Kg	5	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**14**		**0.010**	**% of sample**	1	9/18/2013

Lab ID: 1309342-03A
Client Sample ID: CS-8

Collection Date: 9/17/2013 3:30:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1232	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1242	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1248	**0.30**		**0.099**	**mg/Kg**	1	9/19/2013
Aroclor 1254	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1260	ND		0.099	mg/Kg	1	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**10**		**0.010**	**% of sample**	1	9/18/2013

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309342

Lab ID: 1309342-04A
Client Sample ID: CS-6

Collection Date: 9/17/2013 5:05:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/19/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/19/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/19/2013
Aroclor 1248	**0.14**		**0.10**	**mg/Kg**	1	9/19/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/19/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**17**		**0.010**	**% of sample**	1	9/18/2013

Lab ID: 1309342-05A
Client Sample ID: CS-5

Collection Date: 9/17/2013 5:09:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1221	ND		0.40	mg/Kg	1	9/19/2013
Aroclor 1232	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1242	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1248	**0.24**		**0.20**	**mg/Kg**	1	9/19/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/19/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**17**		**0.010**	**% of sample**	1	9/18/2013

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309342

Lab ID: 1309342-06A
Client Sample ID: CS-7

Collection Date: 9/17/2013 5:00:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1232	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1242	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1248	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1254	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1260	ND		0.099	mg/Kg	1	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**19**		**0.010**	**% of sample**	1	9/18/2013

Lab ID: 1309342-07A
Client Sample ID: CS-10

Collection Date: 9/17/2013 5:15:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		1.0	mg/Kg	10	9/19/2013
Aroclor 1221	ND		2.0	mg/Kg	10	9/19/2013
Aroclor 1232	ND		1.0	mg/Kg	10	9/19/2013
Aroclor 1242	ND		1.0	mg/Kg	10	9/19/2013
Aroclor 1248	**29**		**1.0**	**mg/Kg**	10	9/19/2013
Aroclor 1254	ND		1.0	mg/Kg	10	9/19/2013
Aroclor 1260	ND		1.0	mg/Kg	10	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**22**		**0.010**	**% of sample**	1	9/18/2013

Note:

ALS Environmental

Date: *19-Sep-13*

Client: Shaw - CB&I
Project: COTA

Work Order: 1309342

Lab ID: 1309342-08A
Client Sample ID: CS-9

Collection Date: 9/17/2013 5:25:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1221	ND		0.99	mg/Kg	5	9/19/2013
Aroclor 1232	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1242	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1248	**9.7**		**0.50**	**mg/Kg**	5	9/19/2013
Aroclor 1254	ND		0.50	mg/Kg	5	9/19/2013
Aroclor 1260	ND		0.50	mg/Kg	5	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**10**		**0.010**	**% of sample**	1	9/18/2013

Lab ID: 1309342-09A
Client Sample ID: CS-12 Duplicate

Collection Date: 9/17/2013
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1221	ND		0.40	mg/Kg	1	9/19/2013
Aroclor 1232	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1242	ND		0.20	mg/Kg	1	9/19/2013
Aroclor 1248	**0.17**		**0.099**	**mg/Kg**	1	9/19/2013
Aroclor 1254	ND		0.099	mg/Kg	1	9/19/2013
Aroclor 1260	ND		0.099	mg/Kg	1	9/19/2013
MOISTURE			**SM2540B**		Prep Date: **9/18/2013**	Analyst: **CTS**
Moisture	**16**		**0.010**	**% of sample**	1	9/18/2013

Note:

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Work Order: 1309342
Project: COTA

QC BATCH REPORT

Batch ID: **18680** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-18680-18680** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: Run ID: **GC9_130919A** SeqNo: **679629** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0766	0	*0.1*	0	*76.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0854	0	*0.1*	0	*85.4*	*34-145*	0			

LCS Sample ID **LCS-18680-18680** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: Run ID: **GC9_130919A** SeqNo: **679630** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.993	0.10	2	0	99.6	50-133	0			
Surr: Decachlorobiphenyl	0.0832	0	*0.1*	0	*83.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.09	0	*0.1*	0	*90*	*34-145*	0			

MS Sample ID **1309342-09Ams** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: **CS-12 Duplicate** Run ID: **GC9_130919A** SeqNo: **679639** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.031	0.10	2.008	0	101	31-150	0			
Surr: Decachlorobiphenyl	0.08032	0	*0.1004*	0	*80*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.08956	0	*0.1004*	0	*89.2*	*34-145*	0			

MSD Sample ID **1309342-09Amsd** Units: **mg/Kg** Analysis Date: **9/19/2013**
Client ID: **CS-12 Duplicate** Run ID: **GC9_130919A** SeqNo: **679640** Prep Date: **9/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.08	0.099	1.98	0	105	31-150	2.031	2.39	53	
Surr: Decachlorobiphenyl	0.08297	0	*0.09901*	0	*83.8*	*22-156*	0.08032	*3.24*		
Surr: Tetrachloro-m-xylene	0.09248	0	*0.09901*	0	*93.4*	*34-145*	0.08956	*3.2*		

The following samples were analyzed in this batch:

1309342-01A	1309342-03A	1309342-04A
1309342-05A	1309342-06A	1309342-07A
1309342-08A	1309342-09A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 19-Sep-13

Client: Shaw - CB&I
Project: COTA
WorkOrder: **1309342**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 18-Sep-13 14:43

Work Order: 1309342 | Received by: SAW

Checklist completed by Jan Wilcox (eSignature) 18-Sep-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 19-Sep-13 (Date)

Matrices:

Carrier name: Client

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☐	☑	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☐	☑	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 5.7

Cooler(s)/Kit(s):

	Yes	No	
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☐	☐	N/A ☐
pH adjusted?	☐	☐	N/A ☐

pH adjusted by: _

Login Notes: Sampling date listed as 3/17/13. Sample "CS-11" listed twice on COC, received one jar. Sample "CS-12" was not received. Sample jar labeled as "CS-12 Duplicate" logged in for both CS-12 & CS-12Duplicate. Jw

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

20-Sep-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA; 144938 Work Order: **1309434**

Dear Kelly,

ALS Environmental received 1 sample on 20-Sep-2013 10:12 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 8.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 20-Sep-13

Client: Shaw - CB&I
Project: COTA; 144938
Work Order: **1309434**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1309434-01	CS-10 (4-6)	Soil		9/20/2013 08:00	9/20/2013 10:12	☐

Client: Shaw - CB&I
Project: COTA; 144938
Work Order: 1309434

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *20-Sep-13*

Client: Shaw - CB&I
Project: COTA; 144938
Work Order: 1309434
Sample ID: CS-10 (4-6)
Lab ID: 1309434-01
Collection Date: 9/20/2013 08:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.99	mg/Kg	10	9/20/2013
Aroclor 1221	ND		2.0	mg/Kg	10	9/20/2013
Aroclor 1232	ND		0.99	mg/Kg	10	9/20/2013
Aroclor 1242	ND		0.99	mg/Kg	10	9/20/2013
Aroclor 1248	**49**		**0.99**	**mg/Kg**	10	9/20/2013
Aroclor 1254	ND		0.99	mg/Kg	10	9/20/2013
Aroclor 1260	ND		0.99	mg/Kg	10	9/20/2013
MOISTURE			**SM2540B**		Prep Date: **9/20/2013**	Analyst: **KMW**
Moisture	**17**		**0.010**	**% of sample**	1	9/20/2013

Note:

ALS Environmental

Date: 20-Sep-13

Client: Shaw - CB&I
Work Order: 1309434
Project: COTA; 144938

QC BATCH REPORT

Batch ID: **18719** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-18719-18719** Units: **mg/Kg** Analysis Date: **9/20/2013**
Client ID: Run ID: **GC9_130920A** SeqNo: **680773** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.088	0	*0.1*	0	*88*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.0994	0	*0.1*	0	*99.4*	*34-145*	0			

LCS Sample ID **LCS-18719-18719** Units: **mg/Kg** Analysis Date: **9/20/2013**
Client ID: Run ID: **GC9_130920A** SeqNo: **680774** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.168	0.10	2	0	108	50-133	0			
Surr: Decachlorobiphenyl	0.0908	0	*0.1*	0	*90.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1	0	*0.1*	0	*100*	*34-145*	0			

MS Sample ID **1309434-01AMS** Units: **mg/Kg** Analysis Date: **9/20/2013**
Client ID: **CS-10 (4-6)** Run ID: **GC9_130920A** SeqNo: **680776** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	ND	0.10	2.02	0	0	31-150	0			S
Surr: Decachlorobiphenyl	0.07859	0	*0.101*	0	*77.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.08545	0	*0.101*	0	*84.6*	*34-145*	0			

MSD Sample ID **1309434-01AMSD** Units: **mg/Kg** Analysis Date: **9/20/2013**
Client ID: **CS-10 (4-6)** Run ID: **GC9_130920A** SeqNo: **680777** Prep Date: **9/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	ND	0.099	1.976	0	0	31-150	0	0	53	S
Surr: Decachlorobiphenyl	0.07787	0	*0.09881*	0	*78.8*	*22-156*	0.07859	*0.921*		
Surr: Tetrachloro-m-xylene	0.08538	0	*0.09881*	0	*86.4*	*34-145*	0.08545	*0.0925*		

The following samples were analyzed in this batch: 1309434-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: *20-Sep-13*

Client: Shaw - CB&I
Project: COTA; 144938
Work Order: 1309434

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch 18719					
	Analysis	1309434-01AMS	680776	PCBs	Matrix spike and matrix spike duplicate recoveries could not be calculated due to matrix interference
	Analysis	1309434-01AMSD	680777	PCBs	Matrix spike and matrix spike duplicate recoveries could not be calculated due to matrix interference

ALS Environmental

Date: 20-Sep-13

Client: Shaw - CB&I
Project: COTA; 144938
WorkOrder: **1309434**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 20-Sep-13 10:12

Work Order: 1309434 | Received by: SAW

Checklist completed by Jan Wilcox (eSignature) 20-Sep-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 20-Sep-13 (Date)

Matrices:

Carrier name: Client

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 3.8

Cooler(s)/Kit(s):

	Yes	No	
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☐	☐	N/A ☐
pH adjusted?	☐	☐	N/A ☐

pH adjusted by: -

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

24-Sep-2013

Kelly Birkenhauer
Shaw - CB&I
5050 Section Ave.
Cincinnati, OH 45212

Tel: (513) 782-4800
Fax: (513) 782-4801

Re: COTA; 144938 Work Order: **1309486**

Dear Kelly,

ALS Environmental received 2 samples on 23-Sep-2013 12:05 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Project: COTA; 144938
Work Order: **1309486**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1309486-01	CS-10 (6-8)	Soil		9/23/2013 09:30	9/23/2013 12:05	☐
1309486-02	CS-10 (8-10)	Soil		9/23/2013 09:30	9/23/2013 12:05	☐

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Project: COTA; 144938
Work Order: 1309486

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *24-Sep-13*

Client: Shaw - CB&I
Project: COTA; 144938

Work Order: 1309486

Lab ID: 1309486-01A
Client Sample ID: CS-10 (6-8)

Collection Date: 9/23/2013 9:30:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/24/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.099	mg/Kg	1	9/24/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/24/2013
Aroclor 1232	ND		0.099	mg/Kg	1	9/24/2013
Aroclor 1242	ND		0.099	mg/Kg	1	9/24/2013
Aroclor 1248	**3.1**		**0.099**	**mg/Kg**	1	9/24/2013
Aroclor 1254	ND		0.099	mg/Kg	1	9/24/2013
Aroclor 1260	ND		0.099	mg/Kg	1	9/24/2013
MOISTURE			**SM2540B**		Prep Date: **9/23/2013**	Analyst: **KMW**
Moisture	**19**		**0.010**	**% of sample**	1	9/24/2013

Lab ID: 1309486-02A
Client Sample ID: CS-10 (8-10)

Collection Date: 9/23/2013 9:30:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **9/24/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.10	mg/Kg	1	9/24/2013
Aroclor 1221	ND		0.20	mg/Kg	1	9/24/2013
Aroclor 1232	ND		0.10	mg/Kg	1	9/24/2013
Aroclor 1242	ND		0.10	mg/Kg	1	9/24/2013
Aroclor 1248	ND		0.10	mg/Kg	1	9/24/2013
Aroclor 1254	ND		0.10	mg/Kg	1	9/24/2013
Aroclor 1260	ND		0.10	mg/Kg	1	9/24/2013
MOISTURE			**SM2540B**		Prep Date: **9/23/2013**	Analyst: **KMW**
Moisture	**18**		**0.010**	**% of sample**	1	9/24/2013

Note:

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Work Order: 1309486
Project: COTA; 144938

QC BATCH REPORT

Batch ID: **18748** Instrument ID **GC9** Method: **SW8082**

MBLK Sample ID **MBLK-18748-18748** Units: **mg/Kg** Analysis Date: **9/24/2013**
Client ID: Run ID: **GC9_130924A** SeqNo: **682948** Prep Date: **9/24/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.088	0	*0.1*	0	*88*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1006	0	*0.1*	0	*101*	*34-145*	0			

LCS Sample ID **LCS-18748-18748** Units: **mg/Kg** Analysis Date: **9/24/2013**
Client ID: Run ID: **GC9_130924A** SeqNo: **682949** Prep Date: **9/24/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.138	0.10	2	0	107	50-133	0			
Surr: Decachlorobiphenyl	0.0944	0	*0.1*	0	*94.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.1026	0	*0.1*	0	*103*	*34-145*	0			

MS Sample ID **1309477-01AMS** Units: **mg/Kg** Analysis Date: **9/24/2013**
Client ID: Run ID: **GC9_130924A** SeqNo: **682951** Prep Date: **9/24/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.207	0.10	2.02	0	109	31-150	0			
Surr: Decachlorobiphenyl	0.09071	0	*0.101*	0	*89.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	0.09697	0	*0.101*	0	*96*	*34-145*	0			

MSD Sample ID **1309477-01AMSD** Units: **mg/Kg** Analysis Date: **9/24/2013**
Client ID: Run ID: **GC9_130924A** SeqNo: **682952** Prep Date: **9/24/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.811	0.10	2.016	0	89.8	31-150	2.207	19.7	53	
Surr: Decachlorobiphenyl	0.0875	0	*0.1008*	0	*86.8*	*22-156*	0.09071	*3.6*		
Surr: Tetrachloro-m-xylene	0.09456	0	*0.1008*	0	*93.8*	*34-145*	0.09697	*2.52*		

The following samples were analyzed in this batch: 1309486-01A 1309486-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 24-Sep-13

Client: Shaw - CB&I
Project: COTA; 144938
WorkOrder: **1309486**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: CB&I-SHAW-CINCINNATI-5050 | Date/Time Received: 23-Sep-13 12:05

Work Order: 1309486 | Received by: SEG

Checklist completed by Shawn Smythe (eSignature) 23-Sep-13 (Date) | Reviewed by: Shawn Smythe (eSignature) 23-Sep-13 (Date)

Matrices:

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

Rev. 2/2013

CHAIN OF CUSTODY

Page _____ of _____

Company:

Project Contact:

Telephone:

Project Name:

Project #:

Location:

Sampled By:

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL:
Company:
Address:

Invoice To:*
EMAIL:
Company:
Address:

***Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions**

Client Special Instructions

24 hr

Matrix:
GW – groundwater **SW** - surface water **WW** - wastewater **DW** - drinking water
S - soil/sediment **SL** - sludge **A** - air **M** - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

ANALYSES REQUESTED

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample # (1,2,3, etc)	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					CSV2 1			2		
					CSV2 2			2		
					CSV2 3			2		

Relinquished By:	Date/Time	Received By:	Date/Time
			9/11/13 15:15
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**

Lab Use Only
Ice Present Yes No
Temperature _____
Cooler # _____

Field Chain-of-Custody Record

ALS

☐ **REGULAR** Status ☒ **RUSH** Status

Page 1 of ____

Cooler Temp: ____ (Lab only)

16871

Date 9-17-13 Purchase Order No. ____ Billing Address (if different)

Company Name CB+I

Address 5050 Section Ave.

Cincinnati (City) OH (State) 45212 (Zip)

Person to Contact Kelly Birkenhauer Project No. ____

Email Address Kelly.Birkenhauer@cbifederalservices.com Sampling Site COTA

Telephone (513) 782-4521 Date/Time of Collection 3-17-13/

Fax Telephone ( ) ____ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	PCB's by method 8082	VOC's	SVOC's	RCRA Metals						No. of Containers
	CS-1	3-17-13	1336		ice	Comp	X									1
	CS-2	3-17-13	1426		ice	Comp	X									1
	CS-3	3-17-13	1432		ice	Comp	X									1
	CS-4	3-17-13	1346		ice	Comp	X	X	X	X						3
	~~CS-5~~	~~3-17-13~~			ice	Comp	~~X~~	EW								1
	~~CS-6~~	~~3-17-13~~			~~ice~~	~~Comp~~	~~X~~	EW								1
	~~CS-7~~	~~3-17-13~~			ice	Comp	~~X~~	EW								1
	~~CS-8~~	~~3-17-13~~			~~ice~~	~~Comp~~	~~X~~	EW								1
	~~CS-9~~	~~3-17-13~~			~~ice~~	~~Comp~~	~~X~~	EW								1
	CS-10	~~3-17-13~~			~~ice~~	~~Comp~~	~~X~~	EW								1

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Eric W. Wooster	9-17-13/1515	[illegible]	9/17/13 1515
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

☐ **REGULAR** Status ☒ **RUSH** Status

Page 1 of ____

Cooler Temp: 5.7 (Lab only)

16872

Date 9-17-13 Purchase Order No. ____ Billing Address (if different)

Company Name CB+I

Address 5050 Section Ave.

Cincinnati (City) OH (State) 45212 (Zip)

Person to Contact Kelly Birkenhauer Project No. ____

Email Address Kelly.Birkenhauer@cbifederalservices.com Sampling Site COTA

Telephone (513) 782-4521 Date/Time of Collection 3-17-13/

Fax Telephone ( ) ____ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	PCBs by method 8082									No. of Containers
	CS-11	3-17-13			ice	Comp	X									
	CS-12	3-17-13			ice	Comp.	X									
	CS-8	3-17-13	1530		ice	Comp.	X									
	CS-6	3-17-13	1705		ice	Comp.	X									
	CS-5	3-17-13	1709		ice	Comp.	X									
	CS-7	3-17-13	1700		ice	Comp.	X									
	CS-10	3-17-13	1715		ice	Comp.	X									
	CS-11	3-17-13	1720		ice	Comp.	X									
	CS-9	3-17-13	1725		ice	Comp.	X									
	CS-12 Duplicate	3-17-13	—		ice	Comp	X									

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Erin W. Weaver	1842 9-18-13	[illegible] ALS	9/18/13 14:43
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

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Chain of Custody Form

Page 1 of 3

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Fax: +1 616 399 6185

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	758077	Project Name	COTA TO 151,1333 Fields Ave.	A	PCB; EPA Method 8082
Work Order		Project Number	144938; Columbus, OH	B	
Company Name	Shaw - CB&I	Bill To Company	Shaw - CB&I	C	
Send Report To	Kelly Birkenhauer	Invoice Attn	Accounts Payable	D	
Address	5050 Section Ave.	Address	5050 Section Ave.	E	
				F	
City/State/Zip	Cincinnati, OH 45212	City/State/Zip	Cincinnati, OH 45212	G	
Phone	(513) 782-4700	Phone	(513) 782-4700	H	
Fax	513-782-4807	Fax	513-782-4807	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B13-0-2	6/17/13	9:30	Soil	–	1 4oz	✓										
2	B13-2-4	6/17/13	9:40	Soil	–	1 4oz	✓										
3	B13-4-6	6/17/13	9:50	Soil	–	1 4oz	✓										
4	B13-6-8	6/17/13	9:55	Soil	–	1 4oz	✓										
5	B10-0-2	6/17/13	10:00	Soil	–	1 4oz	✓										
6	B10-2-4	6/17/13	10:05	Soil	–	1 4oz	✓										
7	B10-4-6	6/17/13	10:15	Soil	–	1 4oz	✓										
8	B10-6-8	6/17/13	10:20	Soil	–	1 4oz	✓										
9	B12-0-2	6/17/13	10:28	Soil	–	1 4oz	✓										
10	B12-2-4	6/17/13	10:33	Soil	–	1 4oz	✓										

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Tyler Carter		☐ Std 10 WK Days ☐ 5 WK Days ☑ Other STD-5 Day ☐ 2 WK Days ☐ 24 Hour	

Relinquished by:	Date:	Time:	Received by:	Notes:
CB&I	6/18/13	9:45		
Relinquished by:	Date:	Time:	Received by (Laboratory): ALS 6/18/13 09:45	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
	3.6	☐ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Fax: +1 616 399 6185

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	758077	Project Name	COTA TO 151,1333 Fields Ave.	A	PCB; EPA Method 8082
Work Order		Project Number	144938; Columbus, OH	B	
Company Name	Shaw - CB&I	Bill To Company	Shaw - CB&I	C	
Send Report To	Kelly Birkenhauer	Invoice Attn	Accounts Payable	D	
Address	5050 Section Ave.	Address	5050 Section Ave.	E	
				F	
City/State/Zip	Cincinnati, OH 45212	City/State/Zip	Cincinnati, OH 45212	G	
Phone	(513) 782-4700	Phone	(513) 782-4700	H	
Fax	513-782-4807	Fax	513-782-4807	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B12-4-6	6/17/13	10:45	Soil	—	1 4oz	✓										
2	B12-6-8	6/17/13	10:50	Soil	—	1 4oz	✓										
3	B11-0-2	6/17/13	11:05	Soil	—	1 4oz	✓										
4	B11-2-4	6/17/13	11:10	Soil	—	1 4oz	✓										
5	B11-4-6	6/17/13	11:15	Soil	—	1 4oz	✓										
6	B11-6-8	6/17/13	11:20	Soil	—	1 4oz	✓										
7	B14-0-2	6/17/13	11:25	Soil	—	1 4oz	✓										
8	B14-2-4	6/17/13	11:30	Soil	—	1 4oz	✓										
9	B14-4-6	6/17/13	11:35	Soil	—	1 4oz	✓										
10	B14-6-8	6/17/13	11:40	Soil	—	1 4oz	✓										

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Tyler Carter / [signature]	Drop off	☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☑ Other STD - 5 Day	

Relinquished by:	Date:	Time:	Received by:	Notes:
[signature] / CB&I	6/18/13	9:45		
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] ALS	6/18/13 0945
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
	3.6

QC Package: (Check One Box Below)
- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD _____
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
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ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	758077	Project Name	COTA TO 151,1333 Fields Ave.	A	PCB; EPA Method 8082
Work Order		Project Number	144938; Columbus, OH	B	
Company Name	Shaw - CB&I	Bill To Company	Shaw - CB&I	C	
Send Report To	Kelly Birkenhauer	Invoice Attn	Accounts Payable	D	
Address	5050 Section Ave.	Address	5050 Section Ave.	E	
				F	
City/State/Zip	Cincinnati, OH 45212	City/State/Zip	Cincinnati, OH 45212	G	
Phone	(513) 782-4700	Phone	(513) 782-4700	H	
Fax	513-782-4807	Fax	513-782-4807	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B12-2-4-MS/MSD	6/17/13	10:33	Soil	—	1 4oz	✓										
2	DUP-1	6/17/13	—	Soil	—	1 4oz	✓										
3	DUP-2	6/17/13	—	Soil	—	1 4oz	✓										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Tyler Cantor / [signature]	Drop-off	☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☒ Other STD-5 Day	

Relinquished by:	Date:	Time:	Received by:	Notes:
[signature] / CB&I	6/18/13	9:45		
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] ALS 6/18/13 0945	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
	3.6	☐ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Fax: +1 616 399 6185

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	75B077	Project Name	COTA TO 151,1333 Fields Ave.	A	PCB; EPA Method 8082
Work Order		Project Number	144938; Columbus, OH	B	
Company Name	Shaw - CB&I	Bill To Company	Shaw - CB&I	C	* Please
Send Report To	Kelly Birkenhauer	Invoice Attn	Accounts Payable	D	
Address	5050 Section Ave.	Address	5050 Section Ave.	E	Hold
				F	
City/State/Zip	Cincinnati, OH 45212	City/State/Zip	Cincinnati, OH 45212	G	
Phone	(513) 782-4700	Phone	(513) 782-4700	H	
Fax	513-782-4807	Fax	513-782-4807	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B18-0-2	6/17/13	12:10	Soil	—	1 4oz	✓										
2	B18-2-4	6/17/13	12:15	Soil	—	1 4oz	✓										
3	B18-4-6	6/17/13	12:20	Soil	—	1 4oz	✓										
4	B18-6-8	6/17/13	12:25	Soil	—	1 4oz	✓										
5	B17-0-2	6/17/13	12:30	Soil	—	1 4oz	✓										
6	B17-2-4	6/17/13	12:35	Soil	—	1 4oz	✓										
7	B17-4-6	6/17/13	12:40	Soil	—	1 4oz	✓										
8	B17-6-8	6/17/13	12:45	Soil	—	1 4oz	✓										
9	B16-0-2	6/17/13	1:00	Soil	—	1 4oz	✓										
10	B16-2-4	6/17/13	1:10	Soil	—	1 4oz	✓										

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Tyler Carter / TJC		☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☑ Other STD-504	

Relinquished by:	Date:	Time:	Received by:	Notes:
CB&I	6/18/13	9:45		
Relinquished by:	Date:	Time:	Received by (Laboratory): ALS	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
	3.6

QC Package: (Check One Box Below)
- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
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Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	758077	Project Name	COTA TO 151,1333 Fields Ave.	A	PCB; EPA Method 8082
Work Order		Project Number	144938; Columbus, OH	B	
Company Name	Shaw - CB&I	Bill To Company	Shaw - CB&I	C	
Send Report To	Kelly Birkenhauer	Invoice Attn	Accounts Payable	D	* Please
Address	5050 Section Ave.	Address	5050 Section Ave.	E	
				F	Hold
City/State/Zip	Cincinnati, OH 45212	City/State/Zip	Cincinnati, OH 45212	G	
Phone	(513) 782-4700	Phone	(513) 782-4700	H	
Fax	513-782-4807	Fax	513-782-4807	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B16-4-6	6/17/13	1:15	Soil	—	1 4oz	✓										
2	B16-6-8	6/17/13	1:20	Soil	—	1 4oz	✓										
3	B15-0-2	6/17/13	1:30	Soil	—	1 4oz	✓										
4	B15-2-4	6/17/13	1:35	Soil	—	1 4oz	✓										
5	B15-4-6	6/17/13	1:45	Soil	—	1 4oz	✓										
6	B15-6-8	6/17/13	1:50	Soil	—	1 4oz	✓										
7	B15-6-8-MS/MSD	6/17/13	1:50	Soil	—	1 4oz	✓										
8	DUP-3	6/17/13	—	Soil	—	1 4oz	✓										
9	DUP-4	6/17/13	—	Soil	—	1 4oz	✓										
10		~~6/17/13~~															

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Tyler Curtis / [signature]		☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☑ Other STD-5Day	

Relinquished by:	Date:	Time:	Received by:	Notes:
[signature] CB&I	6/18/13	9:45		
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] 6/18/13 09:45	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
	3.6	☐ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Field Chain-of-Custody Record

Page 1 of 2

15847

☒ REGULAR Status ☐ RUSH Status

Cooler Temp: _____ (Lab only)

8-Day Turn

Date 6/28/13 Purchase Order No. _____

Company Name CB&I

Address 5050 Section Ave

Cincinnati OH 45212
City State Zip

Person to Contact Kelly Birkenhead

Email Address _____

Telephone (513) 782-4700

Fax Telephone ( ) _____

Billing Address (if different) SAME

Project No. 144938.151

Sampling Site COTA - Fields

Date/Time of Collection _____

VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	PCB									No. of Containers
	B19-0-2 *	6/28/13	1010		—	Soil	✓									
	B19-2-4	↓	1035		—	↓	✓									
	B20-0-2	↓	1040		—	↓	✓									
	B20-2-4	↓	1100		—	↓	✓									
	B21-0-2	↓	1116		—	↓	✓									
	B21-2-4	↓	1121		—	↓	✓									
	B22-0-2	↓	1130		—	↓	✓									
	B-22-2-4	↓	1136		—	↓	✓									
	B23-0-2	↓	1143		—	↓	✓									
	B23-2-4	↓	1200		—	↓	✓									

Notes:

* run dup

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
[signature] CB&I	3:25 6/28/13	[signature]	15:25 6/28/13
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

15848

☒ **REGULAR** Status ☐ **RUSH** Status

5-Day Turn

Cooler Temp: _____ (Lab only)

Date 6/28/13 Purchase Order No. _____ Billing Address (if different) SAME

Company Name CB&I

Address _____

City State Zip

Person to Contact Kelly Birkenhauer

Project No. 144938-151

Email Address _____

Sampling Site COTA - Fields

Telephone (513) 782-4700

Date/Time of Collection 6/28/13

Fax Telephone ( ) _____

VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested: PCBs									No. of Containers
	B24-0-2	6/28/13	1215		—	Soil	✓									
	B24-2-4	↓	1222		—	↓	✓									
	B25-0-2	↓	1224		—	↓	✓									
	B25-2-4 *	↓	1227		—	↓	✓									
	B26-0-2	↓	1238		—	↓	✓									
	B26-2-4	↓	1245		—	↓	✓									
	DUP-5 (B19-0-2)	—	—													
	DUP-6 (B25-2-4)	—	—													4

Notes: * run dup

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
[signature]	6/28/13 3:25	[signature]	15:28 6/28/13
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

Page 1 of 5

16287

☑ REGULAR Status ☐ RUSH Status

Cooler Temp: _____ (Lab only)

Date 7/11/13 Purchase Order No. _____

Company Name CB+I

Address 5050 Section Ave

Cincinnati OH 45212

City State Zip

Person to Contact K. Pickenhauer

Email Address kelly.pickenhauer@[illegible]

Telephone (513) 782-4521

Fax Telephone (513) 782-4702

Billing Address (if different)

Project No. 14498.151

Sampling Site COTA Fields

Date/Time of Collection _____

VAP ☐ Yes ☑ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested: TCLP									No. of Containers
	B-19 4-6	7/16/13	1000			S	✓									
	B-19 6-8		1005				✓									
	B-27 0-2		1015				✓									
	B-27 2-4		1018				✓									
	B-27 4-6		1025				✓									
	B-27 6-8		1021				✓									
	B-28 2-4		1030				✓									
	B-28 4-6		1040				✓									
	B-28 0-2		1028				✓									
	B-28 6-8		1042				✓									

Notes: grab samples

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
[signature]	935 7/17/13	[signature] ALS	7/17/13 9:35
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

☐ **REGULAR** Status ☐ **RUSH** Status

Page ____ of ____

Cooler Temp: ____ (Lab only)

16288

Date ____ Purchase Order No. ____ Billing Address (if different)

Company Name ____

Address ____

City State Zip

Person to Contact ____ Project No. ____

Email Address ____ Sampling Site ____

Telephone ( ) ____ Date/Time of Collection ____

Fax Telephone ( ) ____ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested									No. of Containers
	B-29 0-2	7/16/13	1045				✓									1
	B-29 2-4		1050				✓									
	B-29 4-6		1055				✓									
	B-29 6-8		1100				✓									
	B-30 0-2		1115				✓									
	B-30 2-4		1120				✓									
	B-30 4-6		1125				✓									
	B-30 6-8		1130				✓									
	B-31 0-2		1150				✓									
	B-31 2-4	↓	1155			↓										↓

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
	9:35 7/17/13	ALS	7/17/13 9:35
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

☐ **REGULAR** Status ☐ **RUSH** Status

Page ____ of ____

Cooler Temp: ____ (Lab only)

16289

Date ____ Purchase Order No. ____ Billing Address (if different)

Company Name ____

Address ____

City State Zip

Person to Contact ____ Project No. ____

Email Address ____ Sampling Site ____

Telephone ( ) ____ Date/Time of Collection ____

Fax Telephone ( ) ____ **VAP** ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested									No. of Containers
			1215													
			1217													
			1220													
			1222													

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
	935 7/17/13	ALS	7/17/13 9:35
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

☑ REGULAR Status ☐ RUSH Status

Page ___ of ___

Cooler Temp: ___ (Lab only)

16290

Date ___ Purchase Order No. ___ Billing Address (if different)

Company Name ___

Address ___

City State Zip

Person to Contact ___ Project No. ___

Email Address ___ Sampling Site ___

Telephone ( ) ___ Date/Time of Collection ___

Fax Telephone ( ) ___ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested									No. of Containers
	B-2-1 0-2		1225			S	✓									1
	2-1		1230				✓									
	4-6		1235				✓									
	6-8		1237				✓									
	35 0-2		1240				✓									
	2-1		1245				✓									
	4-6		1250				✓									
	6-8		1255				✓									
	dup 1-[illegible]						✓									
	dup 2-[illegible]						✓									

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
[signature]	9:35 7/17/13	[signature] ALS	7/17/13 9:35
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

☑ REGULAR Status ☐ RUSH Status

Page ____ of ____

Cooler Temp: ____ (Lab only)

16291

Date ____ Purchase Order No. ____ Billing Address (if different)

Company Name ____

Address ____

City State Zip

Person to Contact ____ Project No. ____

Email Address ____ Sampling Site ____

Telephone ( ) ____ Date/Time of Collection ____

Fax Telephone ( ) ____ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested									No. of Containers

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
	935 7/17/13	ALS	7/17/13 9:35
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

☑ **REGULAR** Status ☐ **RUSH** Status

Page 1 of 1

Cooler Temp: _____ (Lab only)

16284

Date _____ Purchase Order No. _____ Billing Address (if different)

Company Name _____

Address _____

City State Zip

Person to Contact _____ Project No. _____

Email Address _____ Sampling Site _____

Telephone ( ) _____ Date/Time of Collection _____

Fax Telephone ( ) _____ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	TCLP Metals	TCLP BNCs	TCLP SVOCs							No. of Containers
	Composite-1	7/16/13	1300				✓	✓	✓	✓						1
	Composite-2						✓	✓	✓	✓						1

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
	935 7/17/13	ALS	7/17/13 9:35
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

ALS

☐ REGULAR Status ☑ RUSH Status

Page 1 of 1

Cooler Temp: _____ (Lab only)

16870

Date 9/13/13 Purchase Order No. 758077

Billing Address (if different)

Company Name CB&I

Address 5050 Section Ave

Cincinnati OH 45212
City State Zip

Person to Contact Kelly Birkenhauer

Project No. 144938.151

Email Address Kelly.birkenhauer@cbifederalservices.com

Sampling Site OSR

Telephone (513) 782-4521

Date/Time of Collection 9/13/13

Fax Telephone (513) 782-4807

VAP ☐ Yes ☑ No 1230

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	VOCs	SVOCs	RCRA Metals	PCBs						No. of Containers
1	OSR-1	9/13/13	1:22pm			SO	✓	✓	✓	✓						2
2	OSR-2	9/13/13	1:24pm			SO	✓	✓	✓	✓						2
3	OSR-3	9/13/13	1:26pm			SO	✓	✓	✓	✓						2
4	OSR-2					SO										
5	OSR-3					SO										
6	OSR-3		JKB			SO										
			JKB													

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
Joanna Bambal	9/13/13 2:04pm	[illegible]	2:04 9/13/13
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

ALS

Page ____ of ____

Cooler Temp: 6.0 (Lab only)

16941

☒ **REGULAR** Status ☐ **RUSH** Status

5 day standard

Date 9-18-13 Purchase Order No. _____ Billing Address (if different)

Company Name CB+I

Address 5050 Section Ave.

Cinti (City) OH (State) 45212 (Zip)

Person to Contact Kelly Birkenhauer Project No. _____

Email Address kelly.birkenhauer@cbi.federalservices.com Sampling Site COTA

Telephone (513) 782-4521 Date/Time of Collection 3-19-13

Fax Telephone ( ) _____ VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	VOC's	SVOC's	RCRA Metals	PCB's	Reactivity	pH	Ignitability	RCRA TCLP's VOC, SVOC, Metals		No. of Containers
	DS #1	9-18-13	0935		ice	Comp.	X	X	X	X	X	X	X	X		4
	DS #2	9-18-13	0940		ice	Comp.	X	X	X	X	X	X	X	X		4

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Eric N. Weaver	1450 / 9-18-13	[illegible] ALS	9/18/13 1443
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date
Relinquished by: (*Signature*)	Time / Date	Received by: (*Signature*)	Time / Date

Ship to: **ALS Environmental**
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

Field Chain-of-Custody Record

ALS

☐ REGULAR Status ☒ RUSH Status (24 HR)

Page 1 of 1

Cooler Temp: _____ (Lab only)

16286

Date 9/20/13 Purchase Order No. _____ Billing Address (if different)

Company Name CB&I

Address 5050 SECTION AVE.

CINCINNATI OH 45212 (City, State, Zip)

SAME

Person to Contact KELLY BIRKENHAUER

Project No. 144938

Email Address KELLY.BIRKENHAUER@CBIFEDERALSERVICES.COM

Sampling Site COTA

Telephone (513) 782-4700

Date/Time of Collection 9/19/13 / 0800

Fax Telephone ( ) _____

VAP ☐ Yes ☐ No

Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	Analysis Requested: PCBs BY 8082									No. of Containers
1	CS-10 (4-6)	9/20/13	0800		ICE	COMP	X									2

Notes:

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
K. [illegible]	1009 9/20/13	[illegible]	9/20/13 10:10
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date

Ship to: ALS Environmental
4388 Glendale - Milford Road
Cincinnati, Ohio 45242
Phone: 513.733.5336
Fax: 513.733.5347

Carrier / Airbill #

Date / Time:

ANALYTICAL REQUEST FORM

3687

☐ **REGULAR Status**

☑ **RUSH Status Required - ADDITIONAL CHARGE** (24hr TAT)

RESULTS REQUIRED BY 9/24/13 (DATE)

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 9/23/13 Purchase Order No. _____

Company Name CB&I

Address 5050 Section Ave.

Cincinnati (City) OH (State) 45212 ~~45242~~ (Zip)

Send Report To KELLY BIRKENHAUER

Email Address KELLY.BIRKENHAUER@CBIFEDERALSERVICES.COM

Telephone (513) 782-4700

Fax Telephone (513) 782-4807

Billing Address (if different) SAME

Quote No. _____

Sampling Site COTA

Date/Time of Collection 9/23/13 0930

Project No. 144938

Lab Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
	CS-11 (6-8)	soil	4 oz	PCBs by 8082
	CS-12 (8-10)	soil	4 oz.	PCBs by 8082

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

CHAIN OF CUSTODY

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
George N. Cordes	9/23/13 1202	[illegible] ALS	9/23/13 12:05
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

APPENDIX D
MANIFESTS AND WEIGHT TICKETS

Invoice: 40486656 Receipt 03-00 1233321 Cod COD #6

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as [illegible] 5.11

and specified on Manifest # [illegible], Line Item 1 has been landfilled on

5.1 17, 2011 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form # REC-FM-030-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

2/22/11

6386831

#111

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076760 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address): 1333 FIELDS AVENUE COLUMBUS, OH 43201

6. Transporter 1 Company Name: US Bulk — U.S. EPA ID Number: PAD 987347515

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	DT	EST ~~2CT~~ 19958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. I136065WDI / PCB Impacted Soil
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID : 1, STORAGE START DATE: 9/17/13

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric W. Weaver CBI Agent for EW Corp — Signature: Eric W. Weaver EW — Month 9 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Steve McLachlan — Signature: [signature] — Month 9 Day 17 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy: Actual weight 17855 kg OK per Brian Keeney w/ HIS SC 9/17/13
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct per Brian Keeney w/ HIS constructors Inc 9/17/13
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Charles Swope — Signature: [signature] — Month 09 Day 17 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

6386826

Invoice: 40486656 Receipt 03-00 1233340 Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.J

and specified on Manifest # 6 12076763 20K, Line Item 1 has been landfilled on

Sept 17, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form # REC-FM-030-BEL *The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.* 2/22/11

6366581

170

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076763 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address): 1333 FIELDS AVENUE
COLUMBUS, OH 43201

6. Transporter 1 Company Name: U.S. Bulk Transport, Inc.
U.S. EPA ID Number: PAD987 347515

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	DT	19500 EST	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 I136065WDI / PCB Impacted Soil
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID: 170A STORAGE START DATE: 9-17-13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric W. Weaver - CB+I - Agent for COTA
Signature: Eric W. Weaver
Month 9 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bobby Harvey
Signature: Bobby Harvey
Month 9 Day 17 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Dan Stilter
Signature:
Month 9 Day 17 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

6366580

Invoice: 40486656 Receipt 03-00 1233341 Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.J

and specified on Manifest # 012076762 JJK, Line Item 1 has been landfilled on

Sept 17, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form # REC-FM-030-BEL *The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.* 2/22/11

6366591

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076762 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address): 1333 FIELDS AVENUE COLUMBUS, OH 43201

6. Transporter 1 Company Name: US Bulk Transport, Inc — U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	DT	EST 20 18144	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
[illegible] / PCB Impacted Soil
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID: 1 STORAGE START DATE: 9/17/13

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric W. Weaver - CB+I - Agent for COTA — Signature: E. W. Weaver — Month 9 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John A Tritschuh JR — Signature: [signature] — Month 9 Day 17 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct per Brian Keeney w/ HIS SC 9/17/13
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Don Stoker — Signature: [signature] — Month 9 Day 17 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

6366590

Invoice: 40486656 Receipt 03-00 1233344 Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as 103 S.I.J

and specified on Manifest # 012076761 JJK, Line Item 1 has been landfilled on

Sept 17, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

122

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076761 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address):
1333 FIELDS AVENUE
COLUMBUS, OH 43201

6. Transporter 1 Company Name: U.S. Bulk Transport Inc — U.S. EPA ID Number: PAD 987 347515
7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	DT	20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 1138065WD1 / PCB Impacted Soil
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID: 122A STORAGE START DATE: 9-17-13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric W. Weaver - CB+I - Agent for COTA — Signature: E. W. Weaver — Month 9 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Larry K Jespersen — Signature: Larry K Jespersen — Month 9 Day 17 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ok to correct per Brian Keeney @ HK Constructors — CD 9-17-13
Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: D. W. Miller — Signature — Month 9 Day 17 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

6366585

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.J

and specified on Manifest # 012076764 JJK, Line Item 1 has been landfilled on

Sept 17, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form # REC–FM-030-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

2/22/11

6366570

189-3

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of: 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076764 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address):
1333 FIELDS AVENUE
COLUMBUS, OH 43201

6. Transporter 1 Company Name — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	DT	20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 113005WM / PCB Impacted Soil
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID: 189-3A STORAGE START DATE: 9-17-13

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric W. Weaver - CB&I - Agent for COTA
Signature: Eric W. Weaver
Month 9 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael Convery
Signature: [signature]
Month 9 Day 17 Year 13
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to add PCB info per Brian Keeney @ HIS Contractors - CD 9-17-13
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Don Stiller
Signature: [signature]
Month 9 Day 17 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

6366569

Invoice: 40486656 Receipt 03-00 1233346 Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.1.J

and specified on Manifest # 012076765 JK, Line Item 1 has been landfilled on

Sept 17, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

135

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076765 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORI
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address): 1333 FIELDS AVENUE COLUMBUS, OH 43201

6. Transporter 1 Company Name: U S Bulk Inc — U.S. EPA ID Number: PAD 987347515

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	DT	20000 EST	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
*** H36005WDI/PCB Impacted Soil ***
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID 135A, STORAGE START DATE 9-16-13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric W. Weaver - CB+I - Agent for COTA — Signature: Eric W. Weaver — Month 9 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Geidel — Signature: [signature] — Month 9 Day 17 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: David Tarnacki — Signature: [signature] — Month 9 Day 17 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-08) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

6366575

Invoice: 40490314 Receipt 03-00 1234281 Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB soil

and specified on Manifest # 012076766 JJK, Line Item 1 has been landfilled on

Oct 19, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

1406

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012076766 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address):
1333 FIELDS AVENUE
COLUMBUS, OH 43201

6. Transporter 1 Company Name: TRIAD TRANSPORT INC
U.S. EPA ID Number: OKD 981588791

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	~~DT~~ CM	15,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 1136065WDI / PCB Impacted Soil
*** ER CONTACT NAME - Kelly Birkenhauer ***
UNIQUE CONTAINER ID: SR 1076 STORAGE START DATE: 10/11/13

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Scott Stewart AGENT FOR COTA
Signature: [signature]
Month 10 Day 11 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dennis Harlan
Signature: [signature]
Month 10 Day 11 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 13209 kg OK per Janell Phelps w/ HIS constructors SC 10/14/13
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: Mark Weeks
Signature: [signature]
Month 10 Day 17 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

6442365

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.

and specified on Manifest # 012086202 JK, Line Item 1 has been landfilled on

Oct 14, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form # REC-FM-030-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

2/22/11

6442376

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 110 004 659 414
2. Page 1 of 1
3. Emergency Response Phone: (404) 226-4010
4. Manifest Tracking Number: 012080202 JJK

5. Generator's Name and Mailing Address: CENTRAL OHIO TRANSIT AUTHORITY
33 NORTH HIGH STREET
COLUMBUS, OH 43215
Generator's Phone: (614) 275-5800

Generator's Site Address (if different than mailing address):
1333 FIELDS AVENUE
COLUMBUS, OH 43201

6. Transporter 1 Company Name: ~~UG Bulk Transport, Inc~~ JH TRIAD TRANSPORT INC
U.S. EPA ID Number: OHD 981588791 ~~PAD 987 347 645~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, MIXTURE, 9, PGIII, PCB's	001	~~DT~~ CM	15,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 1136065WD1 / PCB Impacted Soil
*** ER CONTACT - KELLY BIRKENHAUER ***
UNIQUE CONTAINER ID: B-603-1 STORAGE STATE DATE: 10/11/13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: SCOTT STEWART AGENT FOR COTA
Signature: [signature] Month 10 Day 11 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: CLARENCE THOMPSON
Signature: [signature] Month 10 Day 11 Year 13
Transporter 2 Printed/Typed Name
Signature Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 5964 Kg OK per Janell Phelps w/ HIS contractors SC 10/14/13
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Raport Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Wurly
Signature: [signature] Month 10 Day 14 Year 13

GENERATOR / INTL / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

6442375

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1233321
EQ Account #: 13061
Manifest / BOL: 012076760JJK
Transporter: US BULK
Date: 09/17/2013
Time In: 12:22 PM
Time Out: 2:15 PM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	19.640	TONS
	Hazardous Surcharge Ton	19.640	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 68,920 **Tare:** 29,640 **Net:** 39,280		
2	I136065WDI-TONS Additional charge due to load minimum	2.360	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 68,920 **Tare:** 29,640 **Net:** 39,280		
3	Wayne Disposal Host Community Agreement Royalty Fee	19.640	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 68,920 **Tare:** 29,640 **Net:** 39,280		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1233340
EQ Account #: 13061
Manifest / BOL: 012076763JJK
Transporter: US BULK
Date: 09/17/2013
Time In: 2:30 PM
Time Out: 3:46 PM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	22.160	TONS
	Hazardous Surcharge Ton	22.160	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 76,260 **Tare:** 31,940 **Net:** 44,320		
2	Wayne Disposal Host Community Agreement Royalty Fee	22.160	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 76,260 **Tare:** 31,940 **Net:** 44,320		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1233341
EQ Account #: 13061
Manifest / BOL: 012076762JJK
Transporter: US BULK
Date: 09/17/2013
Time In: 2:38 PM
Time Out: 3:58 PM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	19.450	TONS
	Hazardous Surcharge Ton	19.450	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 72,420 **Tare:** 33,520 **Net:** 38,900		
2	I136065WDI-TONS Additional charge due to load minimum	2.550	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 72,420 **Tare:** 33,520 **Net:** 38,900		
3	Wayne Disposal Host Community Agreement Royalty Fee	19.450	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 72,420 **Tare:** 33,520 **Net:** 38,900		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1233344
EQ Account #: 13061
Manifest / BOL: 012076761JJK
Transporter: US BULK
Date: 09/17/2013
Time In: 3:17 PM
Time Out: 4:37 PM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	23.720	TONS
	Hazardous Surcharge Ton	23.720	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 78,660 **Tare:** 31,220 **Net:** 47,440		
2	Wayne Disposal Host Community Agreement Royalty Fee	23.720	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 78,660 **Tare:** 31,220 **Net:** 47,440		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1233345
EQ Account #: 13061
Manifest / BOL: 012076764JJK
Transporter: US BULK
Date: 09/17/2013
Time In: 3:19 PM
Time Out: 4:15 PM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	23.040	TONS
	Hazardous Surcharge Ton	23.040	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 79,000 **Tare:** 32,920 **Net:** 46,080		
2	Wayne Disposal Host Community Agreement Royalty Fee	23.040	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 79,000 **Tare:** 32,920 **Net:** 46,080		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1233346
EQ Account #: 13061
Manifest / BOL: 012076765JJK
Transporter: US BULK
Date: 09/17/2013
Time In: 3:34 PM
Time Out: 4:32 PM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	23.410	TONS
	Hazardous Surcharge Ton	23.410	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 79,060 **Tare:** 32,240 **Net:** 46,820		
2	Wayne Disposal Host Community Agreement Royalty Fee	23.410	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 79,060 **Tare:** 32,240 **Net:** 46,820		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1234281
EQ Account #: 13061
Manifest / BOL: 012076766JJK
Transporter: TRIAD
Date: 10/14/2013
Time In: 7:31 AM
Time Out: 8:47 AM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	14.530	TONS
	Hazardous Surcharge Ton	14.530	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 72,600 **Tare:** 43,540 **Net:** 29,060		
2	I136065WDI-TONS Additional charge due to load minimum	7.470	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 72,600 **Tare:** 43,540 **Net:** 29,060		
3	Wayne Disposal Host Community Agreement Royalty Fee	14.530	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 72,600 **Tare:** 43,540 **Net:** 29,060		

NO SALVAGING ON PREMISES

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

HIS CONSTRUCTORS INC
5150 E.65th STREET
SUITE B
INDIANAPOLIS, IN 46220-4817

Receipt ID: 1234284
EQ Account #: 13061
Manifest / BOL: 012080202JJK
Transporter: TRIAD
Date: 10/14/2013
Time In: 8:29 AM
Time Out: 9:52 AM

Line	Description Generator	Qty.	Unit
1 - 1	I136065WDI - PCB Impacted Soil	6.560	TONS
	Hazardous Surcharge Ton	6.560	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 57,320 **Tare:** 44,200 **Net:** 13,120		
2	I136065WDI-TONS Additional charge due to load minimum	15.440	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 57,320 **Tare:** 44,200 **Net:** 13,120		
3	Wayne Disposal Host Community Agreement Royalty Fee	6.560	TONS
	110004659414 CENTRAL OHIO TRANSIT AUTHORITY		
	Gross: 57,320 **Tare:** 44,200 **Net:** 13,120		

NO SALVAGING ON PREMISES

1

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 1
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck # : 118	**Gross Weight:** 01:14 PM 09-17-13 G 81060 lb
EPA Incident #: N/A	**Tare Weight:** T 31000 lb
Noted Discrepancies :	**Net Weight:** N 50060 lb

25.03
R

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: 9-17-13
Driver's Signature Date

Accepted By: 9-17-13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** Z
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck # : 113	**Gross Weight:** 01:16 PM 09-17-13 G 77580 lb
EPA Incident #: N/A	**Tare Weight:** T 27760 lb
Noted Discrepancies :	**Net Weight:** N 49820 lb

24.91 Ton

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I - Agent for COTA — 9-17-13
Generator / Agent Signature — Title — Date

Acknowledgement of Receipt of Material: [signature] — 17 Sept 2013
Driver's Signature — Date

Accepted By: [signature] — 9-17-13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 3
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 118	**Gross Weight:** 02:15 PM 09-17-13
EPA Incident #: N/A	**Tare Weight:** G 99480 lb T 31000 lb
Noted Discrepancies :	**Net Weight:** N 68480 lb

34.24

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W Weaver CB+I - Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: 9-17-13
Driver's Signature Date

Accepted By: 9/17/13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 4
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 113	**Gross Weight:** 02:27 PM 09-17-13
EPA Incident #: N/A	**Tare Weight:** G 80460 lb T 27760 lb
Noted Discrepancies :	**Net Weight:** N 52700 lb

26.35

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I - Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: [signature] 17 Sept 13
Driver's Signature Date

Accepted By: [signature] 9/17/13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 5
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 118	**Gross Weight:** 03:23 PM 09-17-13 G 100760 lb
EPA Incident #: N/A	**Tare Weight:** T 31000 lb
Noted Discrepancies :	**Net Weight:** N 69760 lb

34.88

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I - Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: 9-17-13
Driver's Signature Date

Accepted By: 9/17/13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 6
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 113	**Gross Weight:** 03:34 PM 09-17-13 G 85020 lb
EPA Incident #: N/A	**Tare Weight:** T 27760 lb
Noted Discrepancies :	**Net Weight:** N 57260 lb

28.63

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I - Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: 17 Sept 2013
Driver's Signature Date

Accepted By: 9/17/13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 7
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 118	**Gross Weight:** 05:15 PM 09-17-13 G 104720 lb
EPA Incident #: N/A	**Tare Weight:** T 31000 lb
Noted Discrepancies :	**Net Weight:** N 73720 lb

36.86

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I - Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: 9-17-13
Driver's Signature Date

Accepted By: 9/17/13
Date

243.81

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 8
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 113	**Gross Weight:** 05:17 PM 09-17-13
EPA Incident #: N/A	**Tare Weight:** G 93580 lb T 27760 lb
Noted Discrepancies :	**Net Weight:** N 65820 lb

32.91

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Eric W. Weaver - CB+I - Agent for COTA 9-17-13
Generator / Agent Signature Title Date

Acknowledgement of Receipt of Material: [signature] 1750 9/13
Driver's Signature Date

Accepted By: [signature] 9/17/13
Date

265.53

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 9
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck #: 104	**Gross Weight:** 08:00 AM 09-20-13
EPA Incident #: N/A	**Tare Weight:** G 70540 lb T 27100 lb
Noted Discrepancies :	**Net Weight:** N 43440 lb

21.72

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Generator / Agent Signature — Title: FIELD SUPERVISOR — Date: 9/20/13

Acknowledgement of Receipt of Material: _____ Driver's Signature — Date: 20Sept13

Accepted By: _____ Date: 9/20/13

289.86

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, Ohio 43209
Phone: (614) 444-SOIL
Fax: (614) 444-1797

NON-HAZARDOUS WASTE MANIFEST

Project Number:	**Load Number:** 10
Consultant: HIS Constructors, Inc. 5150 E. 65th Street, Suite B Indianapolis, IN 46220	**Contact:** Jay Geise **Phone:** 317-284-1195
Generator: Central Ohio Transit Authority 33 North High Street Columbus, OH 43215	**Contact:** Tim Smith **Phone:** 614-275-5800
Transporter: Pearce Construction 2425 Johnstown-Utica Rd. NW Utica, OH 43080	**Contact:** Marcus Pearce **Phone:** 614-206-9059
Destination: Ohio Soil Recycling, LLC 2101 Integrity Drive South Columbus, OH 43209	**Contact:** Chris Elliott **Phone:** 614-444-SOIL
Waste Description: Non-Hazardous Soil	**Waste Origination:** Central Ohio Transit Authority 1333 Fields Avenue Columbus, OH 43201
Truck # : 109	**Gross Weight:** 09:18 AM 09-23-13
EPA Incident #: N/A	**Tare Weight:** G 76160 lb T 27500 lb
Noted Discrepancies :	**Net Weight:** N 48660 lb

24.33

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are *NOT* subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

George Csordas — Environmental Scientist / CBI (Shaw) — 9/23/2013
Generator / Agent Signature — Title — Date

Acknowledgement of Receipt of Material: Lloyd Lane — 9-23-13
Driver's Signature — Date

Accepted By: _____ — 9/23/13
Date

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 1

BACKFILL WEIGH TICKET

SCALE WEIGHT

07:40 AM
09-30-13
G 86420 lb
T 28120 lb
N 58300 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 29.15

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 2

BACKFILL WEIGH TICKET

SCALE WEIGHT

07:43 AM
09-30-13
G 72520 lb
T 27100 lb
N 45420 lb
07:43 AM
09-30-13
G 72520 lb
T 27100 lb
N 45420 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 22.62

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 3

BACKFILL WEIGH TICKET

SCALE WEIGHT

07:50 AM
09-30-13
G 70600 lb
T 27500 lb
N 43100 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: Lloyd Land

TONS: 21.55

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 4

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: ____
Clay: X
Gravel: ____

08:41 AM
09-30-13
G 65520 lb
T 27100 lb
N 38420 lb

Client: HK CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 19.21

Truck: 184

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 5

BACKFILL WEIGH TICKET

SCALE WEIGHT

08:44 AM
09-30-13
G 71080 lb
T 28120 lb
N 42960 lb

Backfill Material

Topsoil: _____
Clay: x
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 21.48

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 6

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

08:48 AM
09-30-13
G 72200 lb
T 27500 lb
N 44700 lb

Client: HIS CONSTRUCTORS

Project: COTA

Received By: Lloyd Lane

TONS: 22.35

Truck: 109

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 7

BACKFILL WEIGH TICKET

SCALE WEIGHT

09:20 AM
09-30-13
G 69820 lb
T 27100 lb
N 42720 lb

Backfill Material

Topsoil: ____
Clay: X
Gravel: ____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 21.36

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 8

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

09:25 AM
09-30-13
G 72160 lb
T 28120 lb
N 44040 lb

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 22.02

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 9

BACKFILL WEIGH TICKET

SCALE WEIGHT

09:38 AM
09-30-13
G 75080 lb
T 27500 lb
N 47580 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: Lloyd Lane

TONS: 23.79

Truck: 109

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 10

BACKFILL WEIGH TICKET

SCALE WEIGHT

09:58 AM
09-30-13
G 71840 lb
T 27100 lb
N 44740 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: H B CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 22.37

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 11

BACKFILL WEIGH TICKET

SCALE WEIGHT

10:05 AM
09-30-13
G 73280 lb
T 28120 lb
N 45160 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 22.58

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 12

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: ____
Clay: X
Gravel: ____

10:20 AM
09-30-13
G 71900 lb
T 27500 lb
N 44400 lb

Client: HK CONSTRUCTORS

Project: COTA

Received By: Lloyd Lane

TONS: 22.20

Truck: 109

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 13

BACKFILL WEIGH TICKET

SCALE WEIGHT

10:36 AM
09-30-13
G 71400 lb
T 27100 lb
N 44300 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 22.15

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 14

BACKFILL WEIGH TICKET

SCALE WEIGHT

10:43 AM
09-30-13
G 74980 lb
T 28120 lb
N 46860 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 23.43

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 15

BACKFILL WEIGH TICKET

SCALE WEIGHT

11:05 AM
09-30-13
G 72700 lb
T 27500 lb
N 45200 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 22.60

Truck: 109

360.14

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 16

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

11:12 AM
09-30-13
G 69660 lb
T 27100 lb
N 42560 lb

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 21.28

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 17

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

11:22 AM
09-30-13
G 69180 lb
T 28120 lb
N 41060 lb

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 20.53

Truck: 107

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 18

BACKFILL WEIGH TICKET

SCALE WEIGHT

11:45 AM
09-30-13
G 72760 lb
T 27500 lb
N 45260 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: Lloyd Lane

TONS: 22.63

Truck: 109

424.62

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 19

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: ____
Clay: X
Gravel: ____

11:59 AM
09-30-13
G 69740 lb
T 27100 lb
N 42640 lb

Client: HS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 21.32

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 20

BACKFILL WEIGH TICKET

SCALE WEIGHT

12:45 PM
09-30-13
G 72820 lb
T 27100 lb
N 45720 lb

Backfill Material

Topsoil: ____
Clay: X
Gravel: ____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 22.86

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 21

BACKFILL WEIGH TICKET

SCALE WEIGHT

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

01:30 PM
09-30-13
G 72020 lb
T 27100 lb
N 44920 lb

Client: HIS CONSTRUCTORS

Project: COTA

TONS: 22.46

Received By: [signature]

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 22

BACKFILL WEIGH TICKET

SCALE WEIGHT

02:11 PM
09-30-13
G 67620 lb
T 27100 lb
N 40520 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [illegible]

TONS: 20.26

Truck: 104

OHIO SOIL RECYCLING

2101 Integrity Drive South
Columbus, OH 43209
(614) 444-SOIL
Fax: (614) 444-1797

Load Number: 23

BACKFILL WEIGH TICKET

SCALE WEIGHT

02:55 PM
09-30-13
G 70500 lb
T 27100 lb
N 43400 lb

Backfill Material

Topsoil: _____
Clay: X
Gravel: _____

Client: HIS CONSTRUCTORS

Project: COTA

Received By: [signature]

TONS: 21.70

Truck: 104

OHIO SOIL RECYCLING

SOIL MANIFEST LOG

Client: **HIS Constructors, Inc.**
5150 E. 65th Street, Suite B
Indianapolis, IN 46220

Project: **Central Ohio Transit Authority**
1333 Fields Avenue
Columbus, OH 43201

Soil Disposal		
Date	**Manifest #**	**Tons**
9/17/2013	1	25.03
9/17/2013	2	24.91
9/17/2013	3	34.24
9/17/2013	4	26.35
9/17/2013	5	34.88
9/17/2013	6	28.63
9/17/2013	7	36.86
9/17/2013	8	32.91
9/20/2013	9	21.72
9/23/2013	10	24.33
	TOTAL:	**289.86**

Backfill		
Date	**Manifest #**	**Tons**
9/30/2013	1	29.15
9/30/2013	2	22.62
9/30/2013	3	21.55
9/30/2013	4	19.21
9/30/2013	5	21.48
9/30/2013	6	22.35
9/30/2013	7	21.36
9/30/2013	8	22.02

9/30/2013	9	23.79
9/30/2013	10	22.37
9/30/2013	11	22.58
9/30/2013	12	22.20
9/30/2013	13	22.15
9/30/2013	14	23.43
9/30/2013	15	22.60
9/30/2013	16	21.28
9/30/2013	17	20.53
9/30/2013	18	22.63
9/30/2013	19	21.32
9/30/2013	20	22.86
9/30/2013	21	22.46
9/30/2013	22	20.26
9/30/2013	23	21.70
	TOTAL:	**511.90**

APPENDIX E
DEED NOTICE

201312160205495
Pgs: 6 $60.00 T20130107748
12/16/2013 3:30PM MLGARY TOBER
Terry J. Brown
Franklin County Recorder

DEED NOTICE

THIS DEED NOTICE ON REAL PROPERTY ("Notice") is made on this 10 day of December, 2013, by the Central Ohio Transit Authority (COTA) whose address is 33 North High Street, Columbus, Ohio 43215 ("Declarant").

WITNESSETH:

WHEREAS, Declarant is the owner of real property more particularly described on the attached Exhibit A ("the Property") and identified as a portion of Parcel Number: 010-037757-00, 1333 Fields Avenue, County of Franklin, State of Ohio.

WHEREAS, the Property is subject to the Toxic Substances Control Act (TSCA) for Polychlorinated Biphenyl (PCB) Site Revitalization under 40 CFR Part 761.61 for PCB remediation waste by the U.S. Environmental Protection Agency (EPA). A copy of the Site Revitalization documents may be obtained by contacting Region 5 of the U.S. EPA's Remediation and Reuse Branch at the U.S. EPA Region 5, 77 West Jackson Boulevard, Chicago, IL 60604-3590; and,

WHEREAS, the purpose of the PCB Site Revitalization was to conduct a self-implementing cleanup for bulk PCB remediation waste to a cleanup level of ≤25ppm for low occupancy areas, the final remedy includes restricting the Property to low occupancy use as defined in 40 CFR Part 761.3 as an area where PCB remediation waste has been disposed of on site, and where annual occupancy for any individual not wearing dermal and respiratory protection is less than 335 hours (an average of 6.7 hours) for bulk PCB remediation waste.

RECEIVED
CLARENCE E. MINGO II
DEC 16 2013
FRANKLIN COUNTY AUDITOR
BY
DEPUTY COUNTY AUDITOR

WHEREAS, if there is an actual or proposed change in use of this area resulting in a change in status from a low occupancy area to a high occupancy area, and the exposure of people or animal life in or at that area could reasonably be expected to increase, the owner of the area shall clean up the area in accordance with the high occupancy area cleanup levels in paragraphs (a)(4)(i) through (a)(4)(iv) of 40 CFR 761.

For as long as the Property is subject to TSCA as described herein (with PCB levels above the unrestricted use limit of 1 ppm) each instrument hereafter conveying any interest in the Property, or any portion of the Property shall contain a recital acknowledging this Deed Notice and providing the recording location of this Deed Notice upon such conveyance substantially in the following form: "The real property described herein is subject to low occupancy use as stated in the Deed Notice recorded in the Franklin County Deed Records on 12/16, 2013 at [insert location of the Deed Notice (e.g., "Volume __, Page __" or "Document Number _____")] as if the same were fully set forth herein".
20131216020549 5

BY: _____

NAME: W. Curtis Stitt

TITLE: President and CEO

DATE: 12-10-13

STATE OF OHIO)

) SS:

COUNTY OF FRANKLIN)

BEFORE ME, a Notary Public in and for said County and State, personally came W. Curtis Stitt for the Central Ohio Transit Authority, its President and CEO who acknowledged that he did sign the foregoing Deed Notice as an authorized representative and that the same is his voluntary act, and the voluntary act of the Central Ohio Transit Authority. In testimony whereof, I have subscribed my name and affixed my seal on this 10 of December, 2013.

Gary D. Tober, Attorney At Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date
Sec. 147.03 R.C.

NOTARY PUBLIC

My commission expires:

Legal Description

Situated in the Fourth Quarter of Township 1 North, Range 18 West, United States Military Lands, City of Columbus, Franklin County, Ohio, and being part of a 10.818 acre parcel of land conveyed to Central Ohio Transit Authority as Parcel A as recorded in Deed Book 2509 page A06 of the Franklin County Records and being more particularly described as follows:

Beginning at the intersection of the centerline of Fields Avenue (50' R/W) and the centerline of Timken Street (50' R/W);

Thence with the centerline of said Fields Avenue N 03°51'39" E for a distance of 703.91 feet;

Thence N 86°08'59" W for a distance of 25.00 feet to southeast corner of said Parcel A and being on the west right of way of said Fields Avenue;

Thence with the south line of said Parcel A and being the north line of a 11.127 acre parcel of land conveyed to Rumpke & Rumpke LLC as recorded in Deed Book 27055 page C15 of the Franklin County Records, N 86°08'59" W for a distance of 751.59 feet to the easterly line of Pennsylvania Lines LLC as recorded in Instrument No. 200212180325195 of the Franklin County Records;

Thence With the westerly lines of said Parcel A and being the easterly lines of said Pennsylvania Lines parcel, the following 6 courses;

N 02°33'03" W for a distance of 104.37 feet;

N 02°38'17" E for a distance of 49.84 feet;

N 07°27'13" E for a distance of 60.05 feet;

N 17°09'44" E for a distance of 75.54 feet;

N 10°45'00" E for a distance of 125.00 feet;

N 02°20'00" E for a distance of 211.45 feet to the **True Point of Beginning** for the herein described tract of land;

Thence from said point of beginning, continuing with the west line of said Parcel A and the east line of said Pennsylvania Lines parcel, N 02°20'00" E for a distance of 187.35 feet;

Thence along the northerly line of said Parcel A and the southerly line of said Pennsylvania Lines parcel ,on a curve turning to the left with a radius of 647.01 feet, for an arc length of 151.61 feet, the chord for said curve bears S 44°36'39" E, for a chord length of 151.27 feet;

Thence on new division lines the following 3 courses;

S 01°08'27" W for a distance of 42.67 feet to the back of existing concrete curb;

With the back of said existing concrete curb, on a curve turning to the left with a radius of 70.00 feet, for an arc length of 99.48 feet, the chord for said curve bears S 65°21'52" W, for a chord length of 91.32 feet;

N 87°40'00" W for a distance of 30.03 feet to the point of beginning,

Containing 0.2724 acres more or less

Subject to legal highways, easements and restrictions of record

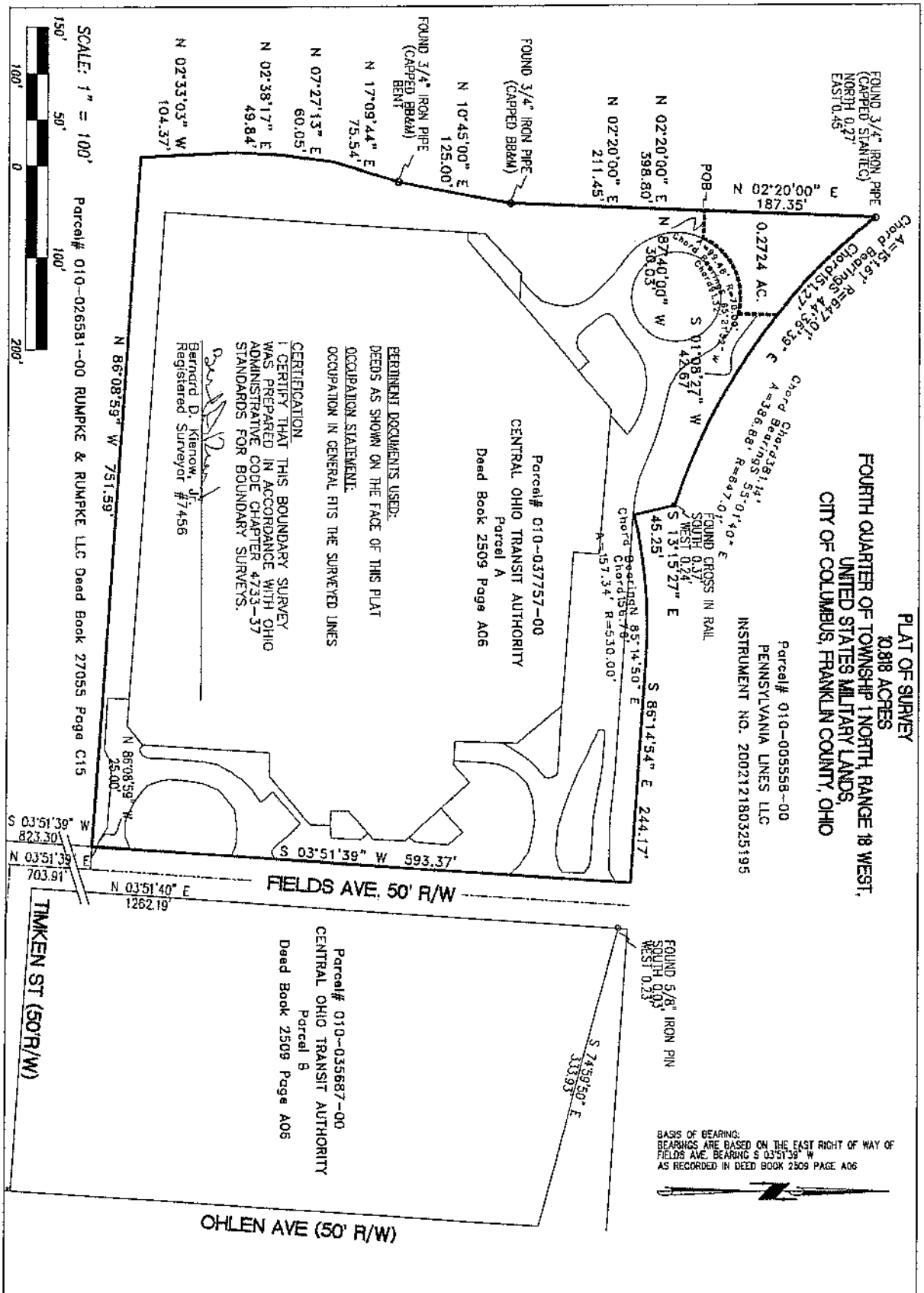
Bearings in this description are based on Deed Book 2509 page A06 of the Franklin County Records

This description is based on a field survey performed by Tecumseh Surveying Inc. in August 2012 under my supervision.

Bernard D. Kienow, Jr.

PS 7456

STATE OF OHIO
BERNARD D. KIENOW JR.
S-7456
REGISTERED
PROFESSIONAL SURVEYOR



PLAT OF SURVEY
10.818 ACRES
FOURTH QUARTER OF TOWNSHIP 1 NORTH, RANGE 18 WEST,
UNITED STATES MILITARY LANDS,
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO

TECUMSEH SURVEYING, INC.
642 REGENT ROAD CINCINNATI, OHIO 45245
TELEPHONE: 513 738-2134, TecumsehSurveying.com

REVISIONS:

Page	Drawn By:	Date:	Scale:	Project No.:
1 OF 1	MWS	12-6-13	1"=100'	

STATE OF OHIO
BERNARD D. KIENOW JR.
S-7456
REGISTERED PROFESSIONAL SURVEYOR

APPENDIX F
PHOTOGRAPHIC LOG

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 1 **Direction:** Northwest	
Description: 6/17/2013) - Site prior to characterization.	

Photograph No. 2 **Direction:** NA	
Description: 6/17/2013 – Example of soil boring fill material followed by clay.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 3 **Direction:** Northwest	
Description: 6/17/2013 – Soil boring locations staked.	

Photograph No. 4 **Direction:** Northwest	
Description: 6/28/2013 – step-out characterization soil boring locations staked.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 5 **Direction:** Southeast	
Description: 7/16/2013 – View of investigation area from property corner stake.	

Photograph No. 6 **Direction:** West/Northwest	
Description: 7/16/13 – Investigation area staked and flagged off.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 7 **Direction:** South	
Description: 9/17/2013 – Backfill material from Ohio Soil Recycling.	

Photograph No. 8 **Direction:** North/Northwest	
Description: 9/16/2013 – Outlines of the excavation area cells.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 9 **Direction:** Southeast	
Description: 9/16/2013 – Red TSCA-regulated cells marked prior to excavation.	

Photograph No. 10 **Direction:** Northwest	
Description: 9/17/2013 – Excavator loading a truck. Loading area lined with visqueen to prevent cross-contamination.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 11 **Direction:** NA	
Description: 9/17/2013 – Drums encountered during excavation.	

Photograph No. 12 **Direction:** NA	
Description: 9/17/2013 – Visqueen liner placed in bermed area for drum placement until roll-offs onsite.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 13 **Direction:** North	
Description: 9/17/2013 – Drums placement in bermed area.	

Photograph No. 14 **Direction:** Northwest	
Description: 9/17/2013 – Excavation area.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 15 **Direction:** Southeast	
Description: 9/17/2013 – Completed excavation area.	

Photograph No. 16 **Direction:** North	
Description: 9/30/2013 – Backfilling of the excavation commences.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 17 **Direction:** Northwest	
Description: 9/30/2013 – Backfilling completed.	

Photograph No. 18 **Direction:** North	
Description: 9/30/2013 – Backfilled area, site restoration in progress. Roll-off container holding drums awaiting pickup.	

Photographic Documentation

Client: COTA
Site Name: Fields Avenue Facility
Address: 1333 Fields Avenue

Prepared by: Natashia Pierce
Photographer: CB&I Field Personnel

Photograph No. 19 **Direction:** West/Northwest.	
Description: 10/11/2013 – Site restoration of drive area.	

Photograph No. 20 **Direction:** Northwest	
Description: 10/8/2013 – Site restoration. Excavated area is re-seeded.	