



June 10, 2013

Mr. Todd Davis  
Site Assessment Manager  
U.S. Environmental Protection Agency, Region 7  
11201 Renner Blvd.  
Lenexa, Kansas 66219

**Subject: Phase II Targeted Brownfields Assessment**  
**KCMO Municipal Farms**  
**Former Lafarge Site at 4701, 4721, and 4725 East Coal Mine Road in**  
**Kansas City, Missouri**  
**EPA Region 7, START 3, Contract No. EP-S7-06-01, Task Order No. 0002.015.022**  
**Task Monitor: Todd Davis, Site Assessment Team Leader**

Dear Mr. Davis:

Tetra Tech, Inc. is submitting the attached Phase II Targeted Brownfields Assessment (TBA) report regarding the former Lafarge site in Kansas City, Missouri. The TBA includes an investigation to confirm or eliminate recognized environmental conditions specified in the Phase I TBA report finalized by Tetra Tech, Inc. in February 2013.

If you have any questions or comments regarding this submittal, please call the project manager at (816)-412-1788.

Sincerely,

A handwritten signature in blue ink that reads 'David A. Zimmerman'.

David Zimmerman, CHMM  
START Project Manager

A handwritten signature in blue ink that reads 'Ted Faile'.

Ted Faile, PG, CHMM  
START Program Manager

Enclosures

cc: Roy Crossland, START Project Officer (cover letter only)

**PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT**  
**FORMER LAFARGE SITE**  
**4701, 4721, AND 4725 EAST COAL MINE ROAD, KANSAS CITY, MISSOURI**

**Superfund Technical Assessment and Response Team (START) 3**

**Contract No. EP-S7-06-01, Task Order No. 0002.015.022**

Prepared For:

U.S. Environmental Protection Agency  
Region 7  
11201 Renner Blvd.  
Lenexa, Kansas 66219

June 10, 2013

Prepared By:

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## EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the approximately 49.5-acre former Lafarge site (Lafarge) at 4701, 4721, and 4725 East Coal Mine Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City) requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment of the subject property, which is a part of the Municipal Farms redevelopment area. The Conceptual Land Use Plan (CLUP) developed for the Municipal Farms redevelopment area indicates the subject property is most suited for the following uses: sustainable industrial, destination commercial, institutional/civic, habitat restoration, productive landscapes, and/or recreation (City 2012b). START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

A Phase I TBA of the subject property completed in February 2013 resulted in findings and specifications of recognized environmental conditions (REC) to the subject property that appear in detail in Section 2.5. To summarize, likelihood of releases of past petroleum product from a formerly present leaking underground storage tank (LUST) at the former Lafarge Concrete Batch Plant (LCBP), and of hazardous material or hazardous waste releases from the drums, containers, an empty aboveground storage tank (AST), washout bays, and stained concrete remaining on the subject property pose RECs to the subject property.

The purpose of this Phase II TBA was to determine if historical activities at the subject property had impacted surface soil, surface water, sediment, subsurface soil, and/or groundwater at and around items posing RECs. During this Phase II TBA at the subject property, soil, groundwater, surface water, and sediment samples were collected to assess environmental impacts. Analytical results were compared to Missouri Risk-Based Corrective Action (MRBCA) Tier 1 target levels for residential and non-residential land use for sandy soil types.

Findings and recommendations from the Phase II TBA are as follows:

Based on sampling during this Phase II TBA, elevated levels of mercury, arsenic, cadmium, chromium, lead, selenium and silver are present in the subsurface soils collected from LCBP-SS-002A and LCBP-SS-003A at the likely former LUST location, and elevated levels of total metals are present in the groundwater sample collected from LCBP-GW-007 near the area of drums and south of the former garage/shop area. In soils only arsenic, cadmium, lead, and selenium, were at concentrations exceeding Missouri Risk-Based Corrective Action lowest default target levels. Arsenic, cadmium, and lead in soils exceeded Tier 1 residential standards, and only arsenic exceeded the Tier 1, non-residential land use standard. Although the levels of arsenic and lead were found at concentrations significantly above the USGS background concentration in three subsurface soil samples, arsenic concentrations in the nine other samples collected in the area of the former LUST were within appropriate target levels. Possibly, when the LUST was removed, contaminated fill was used. If so, this could explain the higher metals concentrations. The City is planning how to develop the subject property, and can determine the necessity for further sampling depending on anticipated future use of the subject property.

Use of groundwater at the subject property as drinking water is unlikely because the subject property is well within city limits and utilizes city water. Moreover, high concentrations of metals present are likely associated with the sediment in the water, not the water itself, as suggested by the concentrations of metals found in the field filtered (dissolved) groundwater samples. However, if metals contamination continues to be a concern after the decision regarding future use of the subject property, further investigation may be necessary.

## **1.0 INTRODUCTION**

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the approximately 49.5-acre former Lafarge site at 4701, 4721, and 4725 East Coal Mine Road in Kansas City, Jackson County, Missouri. The City of Kansas City, Missouri (City) requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment of the subject property, which is a part of the Municipal Farms redevelopment area. The Conceptual Land Use Plan (CLUP) developed for the Municipal Farms redevelopment area indicates the subject property is most suited for the following uses: sustainable industrial, destination commercial, institutional/civic, habitat restoration, productive landscapes, and/or recreation (City 2012b). START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

### **1.1 PURPOSE**

The purpose of this Phase II TBA was to determine if historical activities at the subject property had impacted surface soil, surface water, sediment, subsurface soil, or groundwater at and around items posing recognized environmental conditions (REC) that Tetra Tech had identified during the February 2013 Phase I TBA. The subject property includes the former Lafarge concrete batch plant (LCBP) and a small portion of an abandoned mine. During this Phase II TBA at the subject property, soil, groundwater, surface water, and sediment samples were collected to confirm or eliminate RECs. Analytical results were compared to Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels, and Tier 1 Risk-based target levels for residential land use for sandy soil types.

### **1.2 SPECIAL TERMS AND CONDITIONS**

There were no special terms or conditions for the TBA.

## **2.0 BACKGROUND AND SITE HISTORY**

This section provides a brief description of the subject property: the physical setting, including geology, hydrogeology, and hydrology; site history and land use; adjacent land use; and a summary of previous assessments.

### **2.1 SITE DESCRIPTION AND FEATURES**

The subject property encompasses approximately 49.5 acres of land associated with the street addresses of 4701, 4721, and 4725 East Coal Mine Road in Kansas City, Jackson County, Missouri (see Figure 1, Appendix A). The subject property, currently owned by the City, encompasses four whole City parcels (JA31510110600000000, JA31510110500000000, JA31620040300000000, and JA31540010700000000), and approximately 7 acres of undeveloped land at the southwest corner of a fifth parcel (JA31620040200000000) (City 2012a). The subject property includes forestland, concrete spoil piles, concrete structures associated with the former concrete batch plant (including wash bays and bays for additive storage), and access roads. The subject property is depicted on the United States Geological Survey (USGS) 7.5-minute series Kansas City, Missouri topographic quadrangle map (USGS 1996) in the western ½ of Section 25 and the eastern ½ of Section 26, Township 49 north, Range 33 west (see Figure 1, Appendix A). The coordinates at the approximate center of the property are 39° 2' 24.43" north latitude and 94° 31' 3.86" west longitude (Google Earth 2012).

### **2.2 PHYSICAL SETTING**

The subject property encompasses the area formerly used as a concrete batch plant and includes a small portion of an abandoned mine. The subject property is bounded north by East Coal Mine Road and a City-owned Public Works building—the Stanley Palmer Engineering Center at 4721 East Coal Mine Road; northeast by a City-owned pumping station; east by the City-owned Public Works building—the Public Works Street Salting facility at 4725 East Coal Mine Road—with forestland and open bottomlands beyond; south by forestland with residences beyond; and west by East Coal Mine Road with the Blue River beyond (see Figure 2, Appendix A).

Jackson County is within the west-central part of Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of the county. The northern part of the county is the nearly level flood plain of the Missouri River. Adjacent to the flood plain and south are moderately sloping to steep, loess-covered bluffs and hills. The rest of the county consists of gently sloping to moderately sloping uplands and flood



plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

Elevations in Jackson County range from 1,105 feet above mean sea level (amsl) on the divide in the south-central part of the county to 690 feet amsl at normal water level on the Missouri River at the county line on the eastern side of the county (USDA 1984). Based on a review of the USGS 7.5-minute series Kansas City and Independence, Missouri, topographic quadrangle map (USGS 1996), the subject property ranges from approximately 886 to 920 feet amsl. The subject property consists of uneven terrain, with the highest location over the area of land that was mined. Area topography slopes west and north toward the Blue River.

### **2.2.1 Geologic Setting**

Soils on the subject property are defined as either pits and quarry or Snead-rock outcrop complex. The Snead-rock outcrop complex has 14- to 30-percent slopes. The typical soil profile is 0 to 3 inches silty clay loam, 3 to 24 inches silty clay, and 24 to 80 inches bedrock (USDA 2011b).

The upper bedrock formation in the vicinity of the subject property consists of the middle Kansas City Group, Missourian Series, Pennsylvania System (Missouri Bureau of Geology and Mines 1917).

Underlying the Kansas City Group are the shales of the Pleasanton Group. Underlying the Pleasanton Group are predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (Missouri Department of Natural Resources [MDNR] 1997). Maximum thicknesses of these groups are as follows: 135 feet for the Kansas City Group, 150 feet for the Pleasanton Group, and 190 feet for the Marmaton Group (Stohr, St. Ivany, and Williams, 1981). Based on the ALS Environmental Particle Size Distribution report (Appendix D) and the USDA Textural Classification Chart (USDA 2011a), the soil at the subject property is classified as Soil Type 1 (Sandy).

### **2.2.2 Hydrogeology**

Local Pennsylvanian-age bedrock units generally yield low quantities of marginal quality groundwater high in dissolved solids—particularly chlorides, iron, and bicarbonates (Stohr, St. Ivany, and Williams 1981). Water for the subject property is supplied by the City of Kansas City, Missouri, Water Department, and is obtained from the Missouri River and groundwater sources near the river.

Mississippian and Pennsylvania formations form the bedrock aquifers in this region. The Pennsylvanian aquifers are characterized by water table conditions; however, because of the geologic structure in the

region, artesian conditions may exist locally in shallow wells. Artesian conditions exist in deeper wells that were drilled to Ordovician bedrock. Water yields are low, 1 to 15 gallons per minute (gpm), and the water is high in chlorides, sodium, iron, bicarbonates, and other dissolved solids. Water yields increase in deeper wells, but quality decreases significantly with depth. Water table depths in the alluvium and terraces of the flood plains in the region are 20 to 30 feet (Stohr, St. Ivany, and Williams 1981).

Mississippian and older bedrock aquifers exhibit leaky artesian conditions; however, water table conditions exist near the border of the Ozark Plateaus. Water yields vary from 25 to a few hundred gpm. Water quality is highest near the eastern border of the Osage Plains and decreases toward the northwest, with increasing concentrations of chlorides, sodium, and other dissolved solids. Recharge is by regional water movement from the Ozark Plateaus and by limited infiltration of precipitation (Stohr, St. Ivany, and Williams 1981).

Numerous drainageways dissect the bedrock in this area and flow into the Blue River. The site is on a hilltop that slopes downward to the north-northeast, and shallow groundwater likely perches seasonally at the top of bedrock. Transient water also may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops.

Environmental Data Resources, Inc. (EDR), a START subcontractor, identified one federal USGS water well within 1 mile of the subject property by searching state and USGS database listings; no other water wells were listed in any federal or state database. The reported total depth of the well is 36 feet below ground surface (bgs). Static water levels were not provided for the wells, and EDR extracted no data on groundwater flow and velocity (EDR 2012). In the absence of site-specific data or other indicators, the direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, shallow groundwater flow is inferred to the north in the direction of the topographic gradient and surface water flow.

### **2.2.3 Hydrology**

Based on the visual site assessment by START personnel during the Phase I site investigation (Tetra Tech 2013a), surface water on the subject property appears to follow surface topography and either infiltrates the ground or flows to the north or west toward the Blue River. All runoff from the site would enter drainage ditched on the east or south side of the road then flow to culverts that pass under the road and discharge to the river. Coal Mine Road is built on a levee or flood control dike for the Blue River. The northern boundary of the subject property is topographically 40 feet higher than the Blue River.

## **2.3 SITE HISTORY AND LAND USE**

The subject property includes forestland, concrete spoil piles, concrete structures associated with the former concrete batch plant (including wash bays and bays for additive storage), and access roads. A small portion of an abandoned mine is on the southeast boundary of the subject property. Based on the Underground Development – Botsford Property report (Woodward-Clyde 1984), the underground workings (abandoned mine) include an approximately 35-acre room and pillar mine with adits (entries) along the north and west sides of the spur. The rock extracted was limestone of the Bethany Falls Member of the Swope Formation. Most of the mine is southeast of the subject property (see Appendix A, Figure 2). Historic topographic maps reviewed as part of the Phase I suggest that above ground mining or quarrying activities occurred before the underground mining commenced. According to the Environmental Advisors and Engineers, Inc. (EAE) Area-Wide Brownfields Plan (AWBP) (EAE 2012), the subject property operated as a concrete batch plant from the 1970s to at least 1999. Subsurface mining operations may have occurred adjacent to or on the subject property during that time. Quarry remnants are present north of the former office building. Botsford Ready Mix owned the land since 1951. According to the AWBP, buildings were constructed for the concrete batch plant on the subject property in 1977, 1980, and 1991. The facility had numerous pieces of machinery and equipment, as well as a 10,000-gallon underground storage tank (UST) reportedly used for fueling and truck washing stations. Currently, the subject property is vacant, but remnants of the former concrete batch plant remain.

## **2.4 ADJACENT PROPERTY USE**

The subject property is bounded north by East Coal Mine Road and a City-owned Public Works building—the Stanley Palmer Engineering Center at 4721 East Coal Mine Road; northeast by a City-owned pumping station; east by the a City-owned Public Works building—the Public Works Street Salting facility at 4725 East Coal Mine Road—with forestland and open bottomlands beyond; south by forestland with residences beyond; and west by Coal Mine Road with the Blue River beyond. A review of historical documents indicates the area surrounding the subject property has been used for a variety of residential and municipal purposes (Tetra Tech 2013a).

## **2.5 SUMMARY OF PREVIOUS ASSESSMENTS**

In February 2013, Tetra Tech prepared a Phase I TBA on behalf of the City for the former Lafarge site in Kansas City, Missouri. The following findings resulted (the subject property refers to the former Lafarge site):

- Several 1-quart petroleum containers and used oil filters were observed along the eastern edge of the former Lafarge Concrete Batch Plant (LCBP), on the subject property. An empty, rusty, 55-gallon drum was observed northwest of the entrance to the LCBP, on the subject property. Previous contents of the drum are unknown. Several drums were observed scattered at the base of the former LCBP. The drums appeared empty based on visual observation. No staining was observed around the drums. Because the original contents of the drums are unknown, and because materials from any of the containers may have leaked onto the ground, presence of the petroleum containers, used oil filters, and drums poses a REC to the subject property.
- Solid waste and debris consisting of tires, electronics, construction materials, organic waste, and general solid waste items were observed south of the Public Works facilities on the subject property. At the time of the reconnaissance, a City employee was depositing solid waste and debris in this area. It is not known if the solid waste and debris is temporarily stored in this location or if it was placed there for disposal. This area of solid waste storage poses a REC to the subject property.
- A standpipe or vent pipe was observed near the top of the mine within an area covered with concrete spoils. Because the purpose of the pipe is unknown, its presence poses a REC to the subject property.
- An empty steel aboveground storage tank (AST) was observed along the road that leads to the top of the mine on the subject property. The AST was rusty, and the paint was peeling off the exterior of the AST. Because lead could be present in the paint peeling on the AST, presence of the AST poses an environmental concern to the subject property.
- A concrete truck washout pit was observed north of the LCBP on the subject property. The pit was partially filled with water and sediment was observed in the pit. Assumedly, the pit had been used previously to collect wash water generated during cleaning of the concrete batch trucks after each use to remove excess concrete from the trucks. Because information from previous owners/operators of the LCBP is limited, the contents remaining in the washout pits are unknown; therefore, the contents pose a REC to the subject property.
- De minimis staining was observed in several areas of the subject property on the soil and concrete remains. The concrete near the standpipe or vent pipe observed near the top of the mine was stained red. Because the purpose of the stained concrete is unknown, its presence poses a REC to the subject property.
- Manholes were observed in the paved area at the base of the former LCBP infrastructure. For what the manholes were used is unknown—perhaps to access utilities below the paved area. Based on the available information, presence of the manholes does not pose a REC to the subject property.
- The subject property, Lafarge Construction Materials, was listed in the Leaking Underground Storage Tank (LUST) database. According to the database, a 10,000-gallon, diesel, steel underground storage tank (UST) was removed in 1993. Cleanup started in February 1993 and was finished in July 1993. A No Further Action (NFA) letter was not listed in the database. The facility records for the LUST site were sent to state archives. Based on historical documents provided by the Missouri Department of Natural Resources (MDNR), no additional investigation or remedial action was deemed warranted after review of the closure report. However, because the soil sampled beneath the former LUST during the tank removal contained benzene and xylenes,

this listing poses a REC to the subject property. The exact location of the LUST is unknown, but a suspected general area within which the former LUST was present can be approximated from the historical documents and visual inspection of the subject property.

- The AWBP specifically mentioned further investigation of the quarries and sink holes as possible waste disposal locations. A review of aerial photography and observations during the site visit did not identify any noticeable sink holes or below grade pits that could be quarried land. START believes that the mined areas identified on historical topographic maps represent surface excavations at the northern and western toes of the ridge. The commodity mined in the underground workings was limestone of the Bethany Falls member of the Swope Formation (Woodward-Clyde Consultants [Woodward-Clyde] 1984). The base of the underground mine consists of shales of the Hushpuckney formation. It is suspected that prior to underground development to recover this limestone, the toes of the ridge to the north and west were mined to recover this limestone. Surface recovery most likely occurred from north to south and west to east until the overburden became too thick, and mining commenced underground. No quarry pits associated with the aboveground workings are believed to have existed at the subject property.
- EAE prepared an AWBP for the Municipal Farms redevelopment area to facilitate sustainable reuse and development of the area. Based on available information about the CLUP areas that include the subject property, the most likely contaminants present are volatile organic compounds (VOC), semivolatile organic compounds (SVOC), petroleum-related contaminants, and metals. The AWBP also concluded that unknown contaminants could be present. The following recommendations offered in the AWBP were incorporated into the Municipal Farm Sustainable Reuse Plan, prepared by the City and several stakeholders:
  - Removal of drums, containers, and debris, and notation of any visibly stained soil prior to removal of the concrete from the former concrete batch plant
  - Investigations of (1) the quarry pits and subsurface areas for possible dumping of hazardous waste, (2) presence of sinkholes, and (3) locations of former rock quarries and subsurface mining operations
  - Investigation of the on-site concrete, including noting any stained concrete prior to removal and any stained soil after removal—perhaps indicating need to sample the concrete
  - A review of available documents regarding operation of the pumping station, and possible presence formerly of storage tanks
  - Biased sampling of sediment for pesticides and herbicides at a prominent downgradient drainage relief point within the former agricultural sub-area.

### **3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES**

The purpose of this Phase II TBA was to determine if historical activities at the subject property had impacted surface soil, surface water, sediment, subsurface soil, or groundwater at and around items posing RECs.

The following sections describe the scope of the Phase II TBA, and field exploration and methods. START team members (STM) Bryan Erickson and Quan Do conducted sampling activities from April 23 to 26 and on April 29, 2013.

#### **3.1 SCOPE OF THE ASSESSMENT**

STMs conducted environmental sampling to determine if surface soil, surface water, sediment, subsurface soil, and/or groundwater had been impacted by current or historical activities at the subject property. Photographs taken to document the Phase II TBA field activities are included in Appendix B. Phase II TBA activities were recorded in a site logbook included in Appendix C. Chain-of-custody records, analytical data packages, and a data validation report are in Appendix D. Analytical summary tables appear in Appendix E. The sampling proceeded in accordance with an approved Quality Assurance Project Plan (QAPP) completed under Task Order 015.022 (Tetra Tech 2013b).

##### **3.1.1 Conceptual Site Model and Sampling Plan**

The proposed sampling scheme for collection of soil, water, and sediment samples was biased/judgmental, in accordance with the *Guidance for Performing Site Inspections under Comprehensive Environmental Response Compensation and Liability Act (CERCLA)*, Office of Solid Waste and Emergency Response (OSWER) Directive #9345.1-05, September 1992; and the *Removal Program Representative Sampling Guidance, Volume 1: Soil*, OSWER Directive 9360.4-10, November 1991. The objectives were to characterize possible historical releases to the environment prior to future development of the property. Surface soil, subsurface soil, surface water, sediment, and groundwater samples were collected to identify any contamination possibly present at the subject property, and contamination possibly leaving the subject property in stormwater runoff. Attempts to sample groundwater at several locations encountered refusal before groundwater could be collected at all but one location. Because concrete surrounded the location of the AST, sample collection did not occur there. No water was available to sample at the proposed mine entrance sampling location, Adit #1. Table E-1 summarizes samples collected during the Phase II TBA and the analyses performed.

### **3.1.2 Chemical Testing Plan**

Laboratory analyses for chemical parameters were selected based on potential contaminants associated with the historical use of the subject property. Soil samples were submitted to ALS Environmental (ALS) in Holland, Michigan, for analyses for following parameters: mercury via EPA Method SW-846 7471; arsenic, barium, cadmium, chromium, lead, selenium, and silver via EPA Method SW-846 6020A; total petroleum hydrocarbons (TPH)-diesel range organics (DRO), TPH-oil range organics (ORO), and SVOCs via EPA Method SW-846 8270; and VOCs including TPH-gasoline range organics (GRO) via EPA Method SW-846 8260. Water samples collected were analyzed for the same constituents. Metals in water were analyzed for both total metals and dissolved metals. Dissolved metals were field-filtered using a 0.45 micron disposable filter to remove entrained particles prior to analysis. The method to analyze mercury in water was EPA SW-846 method 7470. Not all samples were analyzed for all parameters.

### **3.1.3 Deviations from the QAPP**

Deviations from the QAPP and the rationale for these are as follows:

- START was able to collect groundwater samples only at one direct-push technology (DPT) location because of probe refusal before encountering groundwater at the other locations where groundwater sampling was attempted.
- START was unable to collect DPT soil samples near the former aboveground storage tanks (ASTs) at the concrete batch plant. All attempts at coring through the concrete in the vicinity of the ASTs failed because the concrete was too thick for the coring device, and eventually the core bit was destroyed.
- No mine water was available for sampling at Adit #1.

## **3.2 FIELD EXPLORATION AND METHODS**

Field activities at the subject property occurred from April 23 to 26 and on April 29, 2013. The sections below summarize the sample collection that occurred.

### **3.2.1 Surface Soil Sampling**

Surface soil samples were collected at five locations on the subject property during the Phase II TBA activities (see Appendix A, Figure 3). The samples are designated on the map as “SF”. At each location, a composite surface soil sample (0 to 6 inches bgs) containing five aliquots was collected using disposable sampling equipment. At each sample location where VOCs were of concern, VOC sampling was first conducted according to EPA Method 5035 guidelines for VOCs. Remaining soil (for analyses other than

VOCs) was transferred to a disposable aluminum pie pan and homogenized with a disposable stainless steel spoon prior to transfer into appropriate containers.

Pertinent data, including sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at temperatures at or below 4 degrees Celsius (°C).

### **3.2.2 Surface Water Sampling**

Two surface water samples were collected from the washout pits, and one surface water sample was collected from a manhole on the subject property (see Appendix A, Figure 3). Surface water samples are designated on the map as “SW”. The samples were collected with a Teflon bailer, which was decontaminated after each sample. Pertinent data, including analyses to be performed and sample locations, were recorded in the field log book (see Appendix C). Surface water samples were field filtered for dissolved metals analysis. All surface water samples were stored in coolers maintained at temperatures at or below 4 °C.

### **3.2.3 Sediment Sampling**

Two sediment samples were collected at the washout pits on the subject property during the Phase II TBA activities (see Appendix A, Figure 3). Sediment samples are designated on the map as “SD”. At each location, a composite sediment sample (1 inch below the pit water level) containing five aliquots was collected using disposable sampling equipment. Sampling was first conducted according to EPA Method 5035 guidelines for VOCs. Remaining sediment (for analyses other than VOCs) was transferred to a disposable aluminum pie pan and homogenized with a disposable stainless steel spoon prior to transfer into an appropriate container. Pertinent data, including sample locations, were recorded in the field log book (see Appendix C). All sediment samples were stored in coolers maintained at temperatures at or below 4 °C.

### **3.2.4 Subsurface Soil Sampling**

Subsurface soil samples were collected at 10 boring locations (see Table E-1) to a maximum depth of 13 feet bgs before refusal (see Appendix A, Figure 3). Subsurface soils are designated on the map as “SS”. Sample numbers are represented as LCBP-SS-XXX and LCBP-SS-XXXXA, which the latter sampled from deeper depth than the former. Each borehole was advanced using a Geoprobe<sup>TM</sup> 4-foot-long Macro-Core<sup>®</sup> sampler fitted with a disposable polyvinyl chloride (PVC) liner. Soil samples were collected in accordance with Region 7 EPA Standard Operating Procedure (SOP) 4230.07: Geoprobe<sup>TM</sup> operations.



A hand-held photoionization detector (PID) was used to screen each 4-foot core interval for volatile organics, and a sample was collected from the interval inducing the highest PID readings or showing other evidence of contamination. If no elevated PID readings or other signs of contamination were noted, a sample was collected from the base of the boring. Each sample for laboratory analysis included a grab sample for analysis for VOCs collected in accordance with EPA SW 846 Method 5035, and consisted of two 5-gram soil aliquots in separate 40-milliliter (mL) vials preserved with sodium bisulfate, and one 5-gram soil aliquot in a 40 mL vial preserved with methanol. After collection of the grab samples, the remaining soil from each sample interval was placed in a disposable aluminum pie pan for homogenization, and then transferred to the appropriate number of 4-ounce jars for analysis for TPH-GRO and TPH-DRO. The Geoprobe™ Macro-Core® sampler was decontaminated using analconox/water solution, followed by a fresh water rinse. Decontamination rinse water was city-supplied water from Kansas City, Missouri. Pertinent data, including analyses to be performed and sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at temperatures at or below 4 °C.

### **3.2.5 Groundwater Sampling**

A groundwater sample was collected from one temporary monitoring well on the subject property. Groundwater was reached between 11 and 13 feet bgs. The sample was collected with a Geoprobe Screen Point 15 sampling apparatus equipped with reusable, 4-foot-long, stainless steel screen. The sampler was advanced to the maximum depth (13 feet bgs); then the screen was exposed to the aquifer. After the screen was deployed at the bottom of the boring, a sample was collected through disposable polyethylene tubing utilizing a peristaltic pump or check valve placed at the bottom of the tubing. The groundwater sampler and rods were decontaminated after sampling. Pertinent data, including analyses to be performed and sample locations, were recorded in the field log book (see Appendix C). Groundwater samples were field filtered for dissolved metals. All groundwater samples were stored in coolers maintained at temperatures at or below 4 °C.

### **3.2.6 Quality Control Sampling**

One water field blank and equipment rinsate blank prepared with deionized (DI) water were submitted for the following analyses: VOCs, TPH-GRO, SVOCs, TPH-DRO, TPH-ORO, and total and dissolved RCRA metals. In addition, two trip blanks (one for water, one for soil) supplied by ALS Environmental were analyzed for VOCs.

## **4.0 EVALUATION AND PRESENTATION OF RESULTS**

Sections 4.1 through 4.5 summarize the analytical data from the samples collected during the Phase II TBA. Grain size analysis of sample LCBP-SC-001 revealed 16% sand, 30% silt, and 54% clay. Based on MRBCA soil classification guidelines (MDNR 2006), the soil at this location (see Appendix A, Figure 3) can be classified as clayey. Grain size analysis of sample LCBP-SC-002 revealed 68% sand and gravel, 19% silt, and 12% clay. Based on MRBCA soil classification guidelines (MDNR 2006), the soil at this location (see Appendix A, Figure 3) can be classified as sandy. Soil sample results from this TBA were compared to MRBCA specified values for 1) Lowest Default Target Levels, 2) Tier 1 target levels for residential land use for sandy soil types, and if those values were exceeded, 3) Tier 1 target levels for non-residential land use for sandy soil types (MDNR 2006). These values have been established to represent protective concentration thresholds of common environmental contaminants. The sandy soil type was chosen because it is the more conservative measure and because many of the samples collected were much more similar to sample LCBP-SC-002 (found sandy via grain size analysis) than to sample LCBP-SC-001 (found clayey via grain size analysis). Mercury, arsenic, lead, and selenium concentrations were also compared to mean background concentrations in Jackson County, Missouri (USGS 2012). The complete analytical data packages for all samples are included as Appendix D, and results are compared to screening values in Appendix E Tables E-2 through E-7. A level II data validation report completed by Tetra Tech is included in Appendix D. For all constituent exceedances, see Tables E-8 and E-9 in Appendix E.

### **4.1 SURFACE SOIL SAMPLES**

No VOCs (including TPH-GRO) exceeded the MRBCA lowest default target levels (LDTL). Five SVOCs exceeded their LDTL in sample LCBP-SF-003, collected from the northeast corner of the LCBP where surface water would drain to an inlet. For all five compounds the LDTL was based on the protection of domestic groundwater use pathway. All concentrations reported were qualified as estimated “J” because the values were less than the sample quantitation limit. None of the compounds were detected at concentrations exceeding the Tier 1 risk-based target level (RBTL) for residential soil (see Table E-3). Arsenic was detected above the LDTL Tier 1 RBTL for residential land use in sample LCBP-SF-003. The concentration was below the RBTL for non-residential sandy soil and the USGS background arsenic concentration in Jackson County, Missouri. Lead was detected in all five surface soil samples at levels above the LDTL. However, these concentrations did not exceed the RBTL for residential sandy soil. Most of the surface soil lead results were in line with the county average of 40.96 mg/kg except LCBP-SF-003, which was almost three times the county average.

## **4.2 SURFACE WATER SAMPLES**

No VOCs (including TPH-GRO), SVOCs (including TPH-ORO and TPH-DRO), or metals exceeded the LDTLs in the two surface water samples or the surface water sample collected from the manhole.

## **4.3 SEDIMENT SAMPLES**

No VOCs (including TPH-GRO) or SVOCs (including TPH-ORO and TPH-DRO) exceeded any benchmarks. Low levels of polycyclic aromatic hydrocarbons (PAH) and oil range organics (ORO) were reported in the sample LCBP-SD-002 collected from the southwest washout pit. Arsenic was detected above the LDTL in sample LCBP-SD-001, but the concentration was below the target level for non-residential sandy soil and the USGS background arsenic concentration in Jackson County, Missouri. Lead was detected in both sediment samples at levels above the LDTL. However, these concentrations did not exceed the target level for residential sandy soil.

## **4.4 SUBSURFACE SOIL SAMPLES**

No VOCs (including TPH-GRO) or SVOCs (including TPH-ORO and TPH-DRO) exceeded the LDTLs. Of note, however, were the results from LCBP-SS-003A, where TPH DRO and ORO were detected at 200 and 640 mg/kg respectively. These were the highest concentrations of petroleum hydrocarbons detected and likely represent the location of the removed UST referenced in the phase I.

Arsenic, cadmium, lead, and selenium exceeded in the LDTLs in various samples. The LDTL for cadmium, lead, and selenium is based on the protection of domestic groundwater use pathway. Arsenic exceeded the LDTL and Tier 1 RBTL for residential land use in 9 of 17 subsurface soil samples collected. Lead exceeded the LDTL in 14 of 17 samples collected. Cadmium exceeded the LDTL in three samples and selenium in two samples. Arsenic exceeded the RBTL for non-residential land use and the USGS background arsenic concentration in Jackson County, Missouri, in samples LCBP-SS-002A, LCBP-SS-003, and LCBP-SS-003A. Cadmium exceeded the Tier 1 RBTL for residential land use in samples LCBP-SS-002A, and LCBP-SS-003A., but all levels were below the RBTL for non-residential sandy soil. Lead concentrations exceeded the Tier 1 RBTL for residential land use in samples LCBP-SS-002A and LCBP-SS-003A, but no samples exceeded the target level for non-residential soil. Selenium concentrations exceeded the LDTL in samples LCBP-SS-002A and LCBP-SS-003A, but neither concentration exceeded the target level for residential sandy soil.

#### **4.5 GROUNDWATER**

No VOCs (including TPH-GRO) or SVOCs (including TPH-ORO and TPH-DRO) exceeded the LDTLs in the groundwater sample, LCBP-GW-007. Total concentrations of arsenic, barium, cadmium, chromium, and lead met or exceeded the respective LDTLs. No dissolved metals concentration exceeded an LDTL.

#### **4.6 QUALITY CONTROL SAMPLES**

Trace amounts (below quantitation limits – “J” coded) of barium, chromium, and lead were detected in the field blank and equipment rinsate blank. Trace amounts of the SVOCs 1,1'-biphenyl and di-n-butyl phthalate were detected in the equipment rinsate blank. Trace amounts of TPH-GRO and acetone were detected in both field and equipment rinsate blanks. Trace amounts of the VOCs acetone and toluene (both common laboratory contaminants) were detected in the soil trip blank. No VOCs were detected in the water trip blank. All concentrations detected were very small and considered laboratory contaminants; thus, no qualifications to the data are required (see Data Validation Report in Appendix D).

## **5.0 DISCUSSION OF FINDINGS AND CONCLUSIONS**

This section summarizes findings and offers conclusions regarding the Phase II TBA field activities.

### **5.1 RECOGNIZED ENVIRONMENTAL CONDITIONS**

No soil, sediment, or water samples contained concentrations of VOCs above respective LDTLs. Five SVOCs exceeded their LDTL in one surface soil sample, but none exceeded the Tier 1 RBTL for residential soil. Of the metals in soil and sediment that exceeded LDTLs, only arsenic exceeded its Tier 1 RBTL for non-residential land use of 15.9 mg/kg. In the three samples that exceeded this standard, concentrations ranged from 25 mg/kg to 35 mg/kg. The arsenic concentrations were about twice the USGS background concentration of 16.603 mg/kg for Jackson County. The surface water samples did not contain a metal concentration above an LDTL.

Concentrations of arsenic were elevated beyond appropriate target levels and the background level at the likely former LUST location (see Appendix 1, Figure 3). Although no dissolved metals concentration exceeded an LDTL in groundwater near the area of drums, total concentrations of five metals met or exceeded appropriate target levels.

No other RECs listed in the Phase I TBA (Tetra Tech 2013) were a concern following the Phase II sampling. In the area of petroleum containers and used oil filters, only lead exceeded the LDTL, but it was below the Tier 1 RBTL for non-residential land use. Results were similar for the debris piles south of the Public Works facilities. Arsenic and lead exceeded the LDTL near the standpipe at the top of the mine, but the concentration was below the Tier 1 RBTL for non-residential and residential soil, respectively. Soil sampled next to the AST along the road to the top of the mine contained lead concentrations that were higher than the LDTL, but below the Jackson County background levels. Arsenic and lead concentrations were elevated in the washout pits, but were below Jackson County background levels. No detections above the LDTL occurred in the water sampled from the manhole.

### **5.2 AFFECTED MEDIA**

Based on sampling during this Phase II TBA, elevated levels of arsenic are present in the subsurface soil at the likely former LUST location, and elevated levels of total metals are present in the groundwater near the area of drums. Although arsenic levels were twice the USGS background concentration in three subsurface soil samples, arsenic concentrations in the nine other samples collected in the area of the former LUST were below appropriate target levels. Possibly, when the LUST was removed, contaminated fill was

used. If so, this could explain the higher arsenic levels as well as elevated concentrations of mercury, cadmium, chromium lead selenium and silver in subsurface soils LCBP-SS-002A and LCBP-SS-003A. The City is planning how to develop the subject property, and will be able to determine whether further sampling is necessary according to anticipated future use.

Use of groundwater at the subject property as drinking water is unlikely because the subject property is well within city limits and utilizes city water. Moreover, high levels of metals present are associated with the sediment beneath the water, not the water itself. However, if metals contamination continues to be a concern following a decision on future use of the subject property, further investigation may be necessary.

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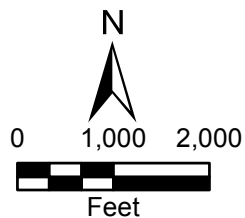
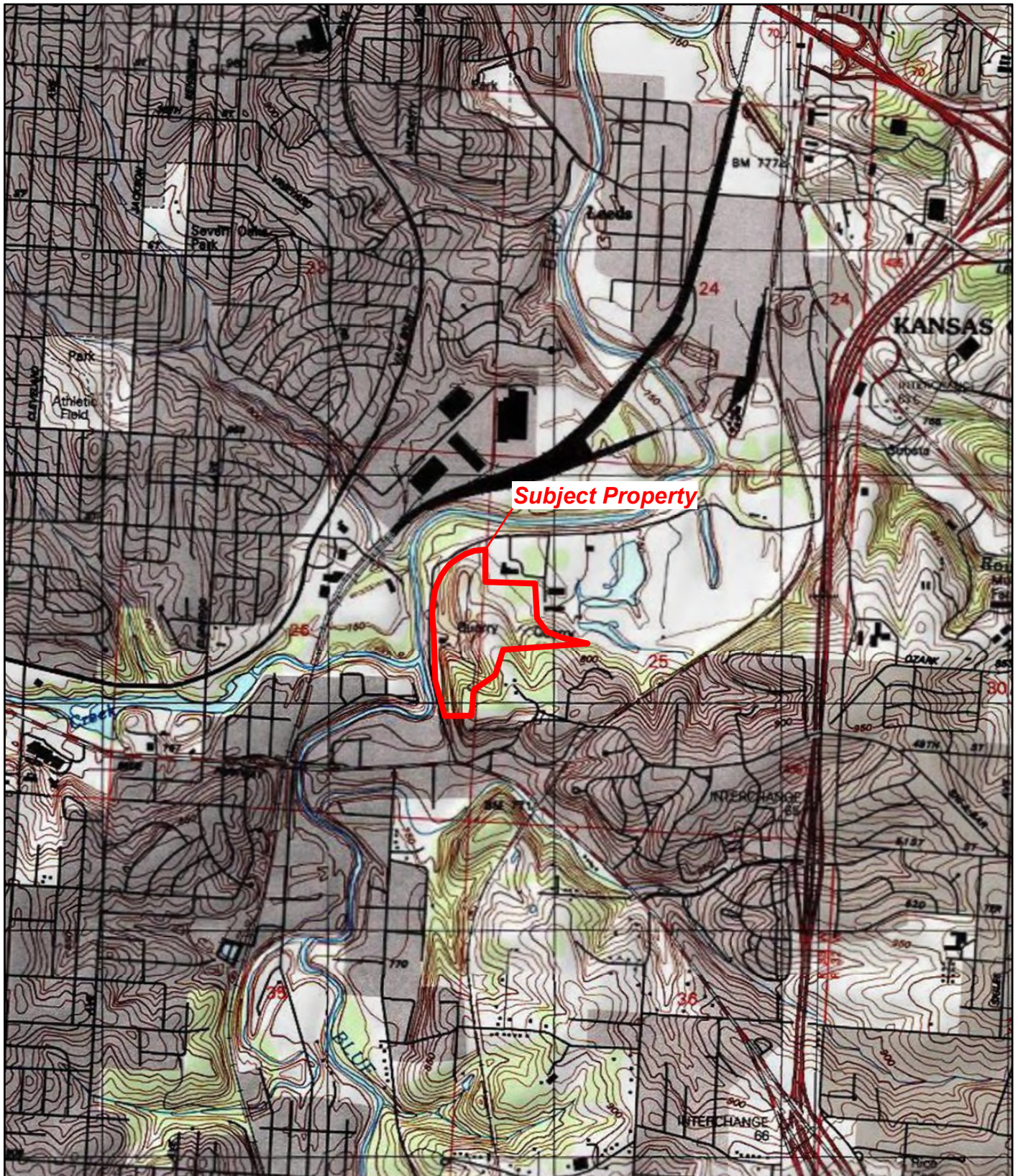
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## **APPENDIX A**

### **FIGURES**





Kansas City Municipal Farms - LaFarge Site  
4721 and 4725 E Coal Mine Road  
Kansas City, Missouri

**Figure 1**  
Site Location Map



Source: USGS Independence, MO 7.5 Minute Topo Quad, 1996  
USGS Kansas City, MO 7.5 Minute Topo Quad, 1996

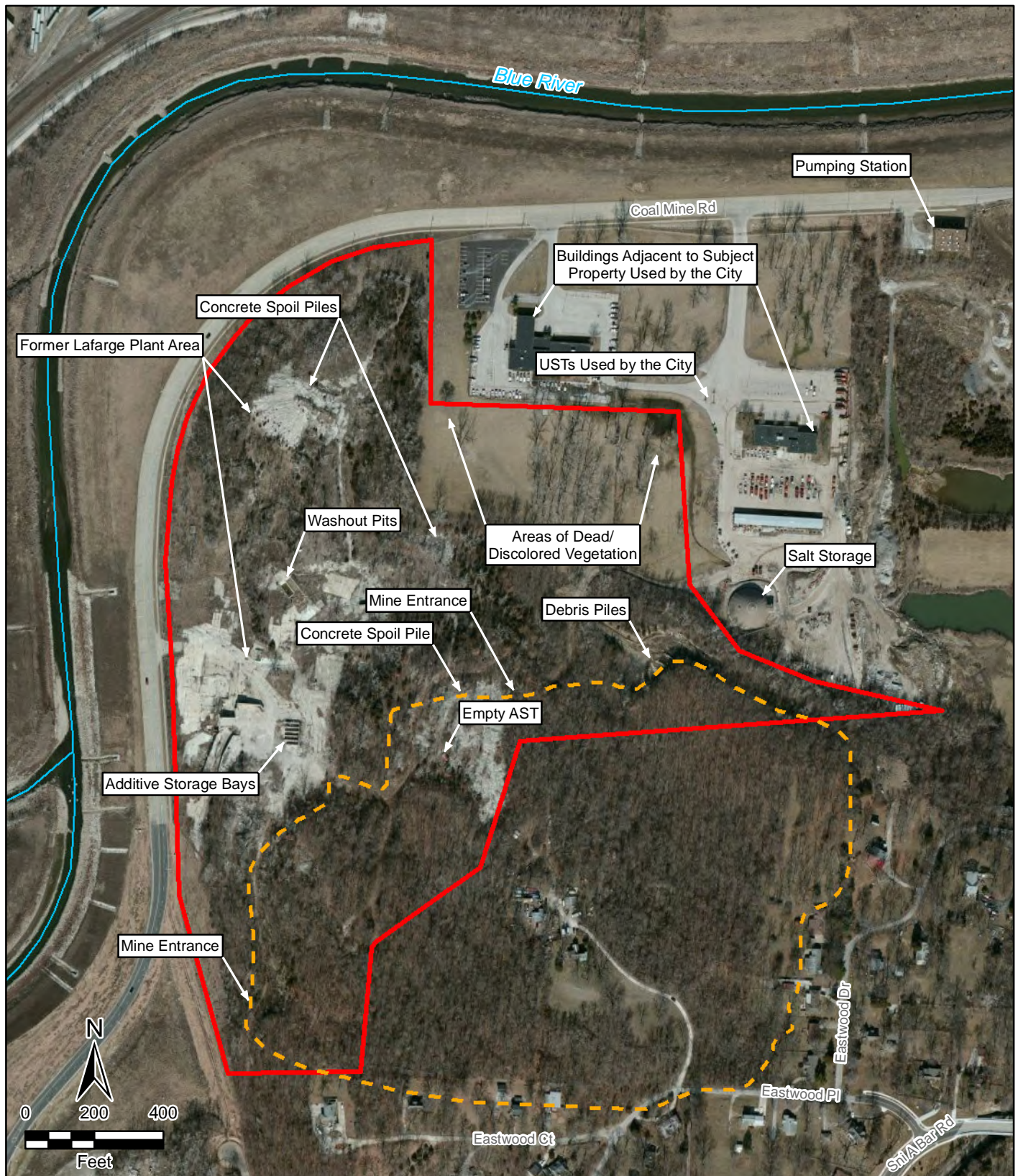
Date: 11/6/12

Drawn By: Nick Wiederholt

Project No: X9004.L.06.0002.015.022

X:\G\9004\002\015\022\LaFarge\Projects\mxd\Figure1.mxd





#### Legend

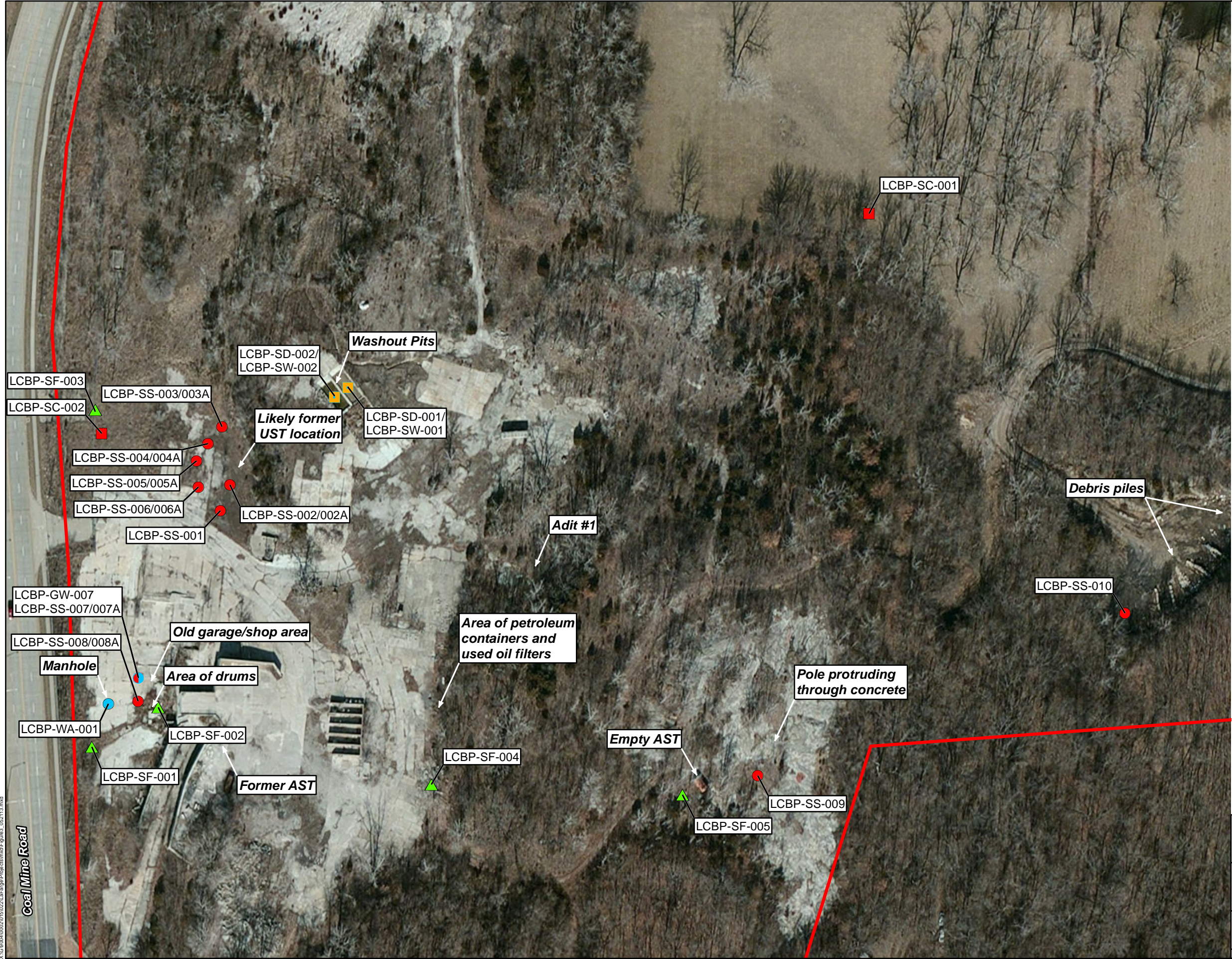
- |   |                              |
|---|------------------------------|
| <span style="color: blue;">—</span> Stream/River                              | AST Aboveground storage tank |
| <span style="color: yellow;">- - -</span> Approximate abandoned mine boundary | UST Underground storage tank |
| <span style="color: red;">▭</span> Approximate subject property boundary      |                              |

Kansas City Municipal Farms - LaFarge Site  
4721 and 4725 E Coal Mine Road  
Kansas City, Missouri

**Figure 2**  
Site Layout Map



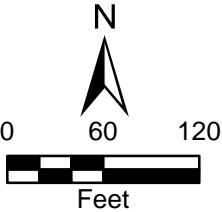




**Legend**

- DPT soil sample location
- DPT soil/groundwater sample location
- Sediment/surface water sample location
- Soil classification sample location
- Surface soil sample location
- Water sample location
- Approximate subject property boundary

AST Aboveground storage tank  
DPT Direct push technology  
UST Underground storage tank



Source: ArcGIS Online, Bing Maps Aerial, 2012

Kansas City Municipal Farms - LaFarge Site  
4721 and 4725 E Coal Mine Road  
Kansas City, Missouri

**Figure 3**  
Sample Location Map



X:\GIS\04\0002\015\022\LaFarge\Project\cds\mxd\Figure3\_052113.mxd



**APPENDIX B**

**PHOTOGRAPHIC DOCUMENTATION**

# **Municipal Farms– Lafarge Former Concrete Batch Plant Jackson County, Missouri**



<p align="center"><b>TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: West</b></p>	DESCRIPTION	This photograph shows collection of water sample LCBP-WA-001 at the manhole south of the entrance to the former Lafarge Concrete Batch Plant (LCBP).	1
	CLIENT	Environmental Protection Agency - Region 7	<p align="center"><b>DATE 4/23/13</b></p>
	PHOTOGRAPHER	Bryan Erickson	



<p align="center"><b>TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: South</b></p>	DESCRIPTION	This photograph shows collection of sediment sample LCBP-SD-002 at the west washout pit on the former LCBP.	2
	CLIENT	Environmental Protection Agency - Region 7	<p align="center"><b>DATE 4/23/13</b></p>
	PHOTOGRAPHER	Bryan Erickson	

# **Municipal Farms– Lafarge Former Concrete Batch Plant Jackson County, Missouri**



<b>TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: Northwest</b>	DESCRIPTION	This photograph shows collection of soil samples LCBP-SS-003 and LCBP-SS-003A at the likely former underground storage tank (UST) location.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/24/13
	PHOTOGRAPHER	Bryan Erickson	



<b>TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: Northeast</b>	DESCRIPTION	This photograph shows the initial attempt to collect soil classification sample LCBP-SC-002.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/25/13
	PHOTOGRAPHER	Bryan Erickson	



## Municipal Farms – Lafarge Former Concrete Batch Plant Jackson County, Missouri



<b>TETRA TECH</b> <b>PROJECT NO.</b> X9004.06.0002.015.022A <b>DIRECTION:</b> North	<b>DESCRIPTION</b>	This photograph shows collection of soil classification sample LCBP-SC-001, northwest of the debris piles.	5
	<b>CLIENT</b>	Environmental Protection Agency - Region 7	<b>DATE</b> 4/25/13
	<b>PHOTOGRAPHER</b>	Bryan Erickson	



<b>TETRA TECH</b> <b>PROJECT NO.</b> X9004.06.0002.015.022A <b>DIRECTION:</b> Northwest	<b>DESCRIPTION</b>	This photograph shows Superfund Technical Assessment and Response Team (START) personnel attempting to bore through the concrete at the location of the former aboveground storage tank (AST).	6
	<b>CLIENT</b>	Environmental Protection Agency - Region 7	<b>DATE</b> 4/29/13
	<b>PHOTOGRAPHER</b>	Bryan Erickson	



**APPENDIX C**  
**SITE LOGBOOK**

4-23-13

START Erickson

0900 START Erickson and Quan Do (Seagull) arrived at the Former LaFarge Concrete Batch Plant West entrance gate and met with Bill Engleberger (KCMO) who gave us keys to the padlock for the gate. Bill asked us to give the keys to Andrew Bracker when we finished our sampling activities.

0915 We toured the site to try and locate all of the proposed sampling locations.

0945 The proposed groundwater sampling location at the former mine entrance did not have any water that could be sampled at this time.

1010 Due to heavy rain and sleet, we won't be able to start collecting soil samples today. We will return this afternoon and attempt to collect surface water & sediment samples along with the water in the manhole.

1030 Returned to the office.

1240 Returned to the site and prepared to collect water samples from the manhole.

4-23-13

START Erickson

1320 Collected water from the manhole using Teflon boiler.

Sample No. LCBP-WA-006

Lat. 39.03940 Long. -94.51965

2 1L Amber No preservative

1 500mL Poly HNO<sub>3</sub> Unfiltered

1 500mL Poly HNO<sub>3</sub> Filtered

3 <sup>40mL</sup> Vials ~~Sodium Phosphate~~ <sup>HCL</sup> ~~Trichloroacetic~~

1340 Finished collecting water sample and moved to first surface water/sediment location

Sample No. LCBP-SW-001

Lat. 39.04047 Long. -94.51855

2 1L Amber No Preservative

1 500mL Poly HNO<sub>3</sub> Unfiltered

1 500mL Poly HNO<sub>3</sub> Filtered

1355 Collected Sediment sample at the same location. 1" below water

Surface Sample No. LCBP-SD-001

1 Terrapene Kit

1 12 oz Jar

1410 Collected second surface water sample from the west washout pit

Lat. 39.04057 Long. -94.51825

Sample No. LCBP-SW-002

*[Signature]*

*Return in the box*



4-23-13

START Erickson

1410

2L Amber No Preservative

1 500ml Poly HNO<sub>3</sub> Unfiltered1 500ml Poly HNO<sub>3</sub> Filtered

3 40ml Vials HCL

1430

Collected second sediment sample  
at same locationSample No. LCBP-SD-002

1 Term Core kit

1 12 oz Jar

1500

Collected sampling supplies and  
left the site for the day.

4/23/13

4-24-13

START Erickson

0915

START Erickson and Quan Do (seagull)

arrived at the Farmer Leforge Concrete  
Batch Plant. We played proposed DPT  
sampling locations around the likely former  
UST location and prepared to start  
Geoprobe investigation and sub-  
surface soil sampling.

Sample Loc. #1

Lat. 39.04007

Long. -94.51917

Sample Loc. #2

Lat. 39.04016

Long. -94.51913

Sample Loc. #3

Lat. 39.04036

Long. -94.51917

Sample Loc. #4

Lat. 39.04030

Long. -94.51923

Sample Loc. #5

Lat. 39.04024

Long. -94.51928

Sample Loc. #6

Lat. 39.04015

Long. -94.51927

0950

Began geoprobe investigation at Loc. #1  
hit refusal (bedrock) at 2' bgs  
collected 1 sampleSample # LCBP-SS-001 0-2' bgs0-0.5' gravel, 0.5-1' bgs dark brown  
clay, 1.0-1.5' sand, 1.5-2.0' light brown clay  
Hite in the Rain.



4-24-13

START Erickson

1000

Began geoprobe investigation at Loc #2

Description: 0-4' bgs: 0-1' gravel and dark brown clay, 2-4' bgs dark brown clay

Refusal at 6' bgs

4-6' bgs dark brown to blackish clay

PID 0 on both cores

Collected first sample at this location

1010

From 2-4' bgs Sample # LCBP-SS-002

2 40 ml glass vials w/ Sodium Bisulfate

2 40 ml glass vials w/ Methanol

1 2oz jar w/ No preservative

1 12oz jar w/ No preservative

1020

Collected second sample at Location #2From 4-6' bgs Sample # LCBP-SS-002A

same sample containers as above.

1030

START Erickson returned to the office to get more pie pans.

1100

START Erickson returned to the site.

1115

Moved to Location #3 to begin Geoprobe investigation

1120

Pulled first coring from 0-4' bgs

0-1' topsoil &amp; gravel, 1-4' light brown clay

PID = 0

1125

Pulled second coring from 4-8' bgs at 3rd location.

4-24-13

START Erickson

cont.

4-8' bgs Description 4-5' light brown clay &amp; rock

5-6' dark brown clay, 6-8' blackish clay

PID = 0

Refusal at 8'

1130

Collected sample # LCBP-SS-003 from 2-4' bgs

1135

Collected sample # LCBP-SS-003A from 6-8' bgs

Both samples contain the following

2 40 ml glass vials w/ Sodium Bisulfate

2 40 ml glass vials w/ Methanol

1 2oz jar w/ No preservative

1 12oz jar w/ No preservative

1145

Began Geoprobe investigation at Loc. #4

Pulled first core from 0-4' bgs

Description 0-1' light brown clay &amp; gravel,

1-3' dark brown clay, 3-4' brown clay

1150

Pulled second core at Loc #4 from

4-7' where we hit refusal

Description 4-6' brown clay, 6-7' dark brown clay &amp; rock

On 1155

Collected Sample # LCBP-SS-004

from 2-4' bgs

Collected sample # LCBP-SS-004A from

5-7' bgs

PID 0 on both cores

1210

Broke for lunch

*Rite in the Rain.*



4-24-13

START Erickson

- 1240 Returned to the site
- 1255 Began Geoprobe investigation at Loc. #5  
Pulled first coring from 0-4' bgs with  
3' of recovery. Description: 0-1' gravel  
and light brown clay, 1-4' brown clay  
into sand.
- 1305 Pulled second core from 4-8' bgs at  
Loc. #5 with 2' of recovery. 6-8' mix  
of sand and light brown clay (75% sand)
- 1320 Collected two samples at Loc. #5.  
LCBP-SS-005 (2-4' bgs)  
LCBP-SS-005A 6-8' bgs  
Refusal at 8' bgs. PID 0 on  
both corings. Sample procedures &  
containers same as previous locations.
- 1330 Pulled first coring at Loc. #6  
(0-4' bgs). 3' recovery. Description:  
0-1' gravel & sand, 1-4' light brown  
clay & sand (40% sand)
- 1335 Pulled second coring at Loc. #6 from  
4-8' where hit refusal. 2' recovery  
80% sand 20% light brown clay/PID 0
- 1345 Collected sample # LCBP-SS-006 (2-4' bgs)  
Collected sample # LCBP-SS-006A (6-8' bgs)

4-24-13

START Erickson

- 1400 Moved to sampling Location #7 to  
begin Geoprobe investigation  
Loc. #7 Lat. 39.03949 Long. 94.51952  
Loc. #8 Lat. 39.03941 Long. 94.51952
- 1415 Began investigation at Loc. #7. Pulled  
first coring 0-4' bgs with just over  
2' recovery. 0-5' concrete & sand,  
.5-4' grey clay PID 0 (Leakage)
- 1420 Pulled second coring from 4-8' bgs.  
Description: 4-5' bgs grey clay & sand, 5-7'  
grey clay, 7-8' grey & black clay.  
PID 0 (Leakage) 7-8' range began  
encountering groundwater at 4' bgs.
- 1430 Pulled 3rd core 8-12' bgs. Description  
8-9' sandy grey clay 9-11' greyish blue  
clay with petroleum odor, 11-12' black  
and grey clay & rock
- 1440 Refusal @ 13.5' bgs
- 1450 Collecting subsurface soil sample  
# LCBP-SS-007 from 9-11' bgs  
Collecting LCBP-SS-007A from 11-13' bgs
- 1515 Began collecting water sample  
LCBP-GW-007 using the screen  
point sampler and peristaltic pump.

Rite in the Rain



4-24-13

START Erickson

- 1530 Sample LCBP-GW-007  
 3 40mL glass vials w/ HCL  
 2 1L Amber bottles w/ no preservative  
 1 500mL Poly bottle w/  $\text{HNO}_3$   
 1 500mL Poly bottle w/  $\text{HNO}_3$  (Filtered)  
 1545 began packing up equipment  
 1610 Left the site

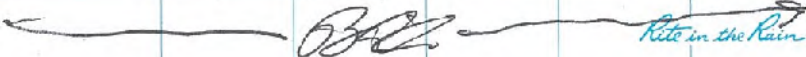


4/24/13

4-25-13

START Erickson

- 0925 START Erickson and Owen Do (sejull)  
 arrived at the former Lafarge (concrete  
 Batch Plant on Coal Mine Road  
 in KC, MO. We proceeded to the  
 Sample Loc. #8 which was GPS'd yesterday  
 and prepared to continue Geoprobe  
 investigation of subsurface soils.  
 0940 Pulled first coring at Loc. #8 from  
 0-4' bgs with 3' recovery.  
 Description: 0-1' Topsoil w/ gravel, 2-4' bgs  
 greyish black clay  
 PID 0  
 0945 Pulled second coring from Loc. #8 from  
 4-8' bgs. 2' recovery Description:  
 6-8' bgs Wet, dark grey clay with gravel  
 PID 0  
 0955 Pulled third coring from Loc. #8 from  
 8-12' bgs. 4' recovery. Description:  
 8-12' bgs greenish grey clay, moisture  
 around 10%  
 PID 0  
 1005 Hit refusal at Loc. #8 just below  
 12' bgs. Prepared to collect soil  
 at this location.



Rite in the Rain



4-25-13

START Erickson

1010 Collected sample # LCBP-SS-008 from  
6-8' bgs.

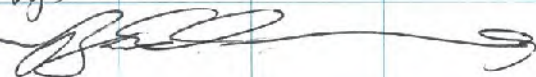
1020 Collected sample # LCBP-SS-008A from  
10-12' bgs.

1 Terracore kit

1 12oz Jar no preservative

1045 Moved to next proposed DPT location  
#9 Lat. 39.03919 Long. -94.51678  
which was located south of the  
pole protruding through concrete spoils  
location.

1055 Pulled the first core at Loc. #9  
from 0-4' bgs where we hit refusal.  
The bottom of the core (4 bgs) is  
brittle light brown shale. 3' recovery  
0-1' gravel and brown clay (dry) 1-4'  
light brown clay & brittle shale (slightly moist)  
No ground water. PID 0  
Dropped some rocks down the pipe sticking  
out of the concrete and heard no  
liquid but what sounded like concrete  
at the bottom. Will collect one  
soil sample at this location from  
2-4' bgs

LCBP 

4-25-13

START Erickson

1105 LCBP-SS-009 From 2-4' bgs

same sample containers as previous  
sample at 008.

1120 Moved to the soil classification location  
east of the western perimeter fence  
Lat. 39.04130 Long. -94.51890

This area is between two different  
concrete spoils piles but appears  
to have been untouched by former  
activities on site. We will use  
the Geoprobe to push down to refusal  
and collect a 1L Amber of soil  
just above refusal.

1145 We hit concrete at .5' bgs. It  
appears that this entire area was used  
for concrete dumping. We will attempt  
to find another location near here.

1200 We were unable to find a good  
location that looked unaffected by  
the concrete spoils dumping in this  
area.

1205 Broke for lunch

1245 Arrived at the DPT location near  
the debris piles the city of KCMO  
maintains.

  
Rite in the Rain



4-25-13

START Erickson

1300 Met with the city services manager at the Debris Piles who told us this area was used to wash out asphalt trucks. We picked a spot on the southern edge of the debris piles location.

Lat. 39.03977 Long. -94.51517

Hit refusal at 6' bgs

1305 First core description: 0-4' bgs, 2' recovery some brown clay mixed in with over 50% asphalt

4-6' bgs: dark brown clay and no asphalt. Will collect only one sample at this location due to low amount of soil.

No groundwater encountered. PID 0

Sample # LCBP-55-001 from 4-6' bgs.

1325 Moved to the soil classification sample location Northwest of the Debris Piles, south of the water department. Lat. 39.04113 Long. -94.51633

1330 Began Geoprobe investigation, will collect soil from bottom few feet above refusal. First core, 0-4' bgs description: 0-1' topsoil, 1-4' bgs light brown clay.

4-25-13

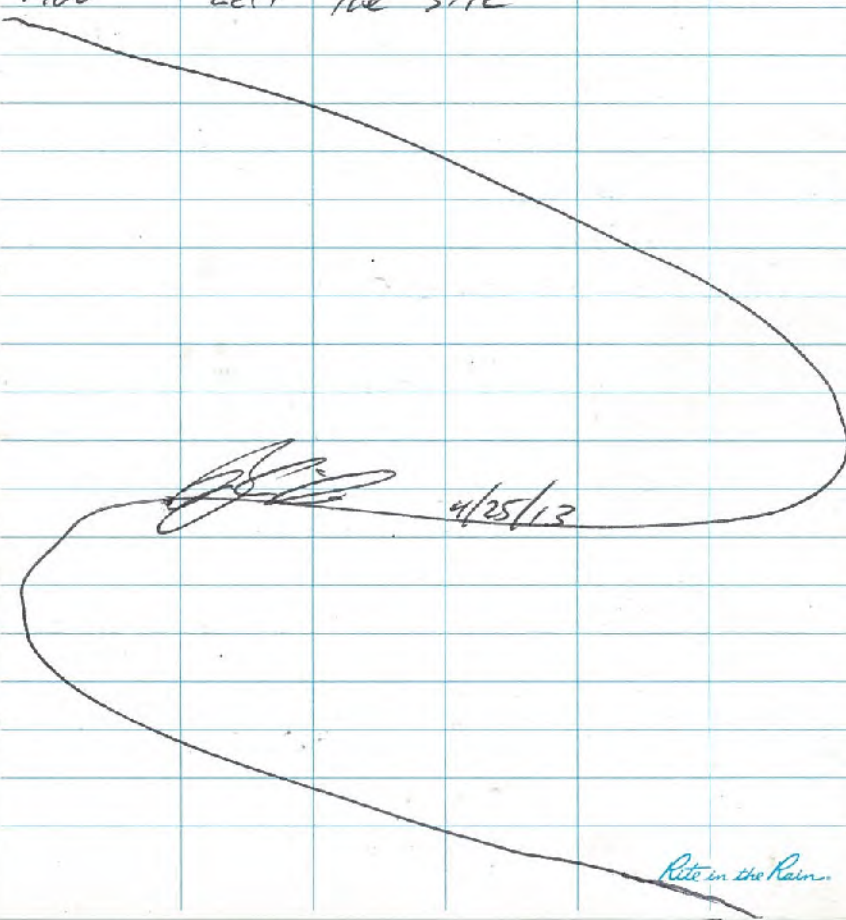
START Erickson

1335 Second core from 4-8' pulled, descriptive 4-7' bgs - light brown clay, 7-8' bgs brown clay (no groundwater encountered)

1340 Hit refusal at 9' bgs.

Sample # LCBP-56-001 collected from 7-9' bgs PID 0 no groundwater

1400 Left the site



4/25/13

Rite in the Rain



4-26-13

START Erickson

1030 START Erickson and Don Di  
arrived onsite at the Farmer Leforge  
concrete batch plant to collect  
surface soil samples.

1050 Collected first sample along the  
western perimeter fence.

Lat. 39.03925 Long. -94.51972

Surface soil from 0-0.5' bgs

1 Terra core kit

1 12oz jar

LCBP-SF-001

1110 Collected second surface soil sample  
from 0-0.5' bgs near the area  
of abandoned drums.

Lat. 39.03939 Long. -94.51943

Same sample containers as previous

LCBP-SF-002

1120 Collected third surface soil sample  
along the western perimeter fence about  
100' north of the main gate. 0-0.5' bgs

Lat. 39.04041 Long. -94.51973

LCBP-SF-003

1130 Collected fourth surface soil sample near  
the oil containers and used oil filters  
0-0.5' bgs Lat. 39.03914 Long. -94.51822

4/26/13

START Erickson

1130

Collected LCBP-SF-004

1140

Collected fifth surface soil sample

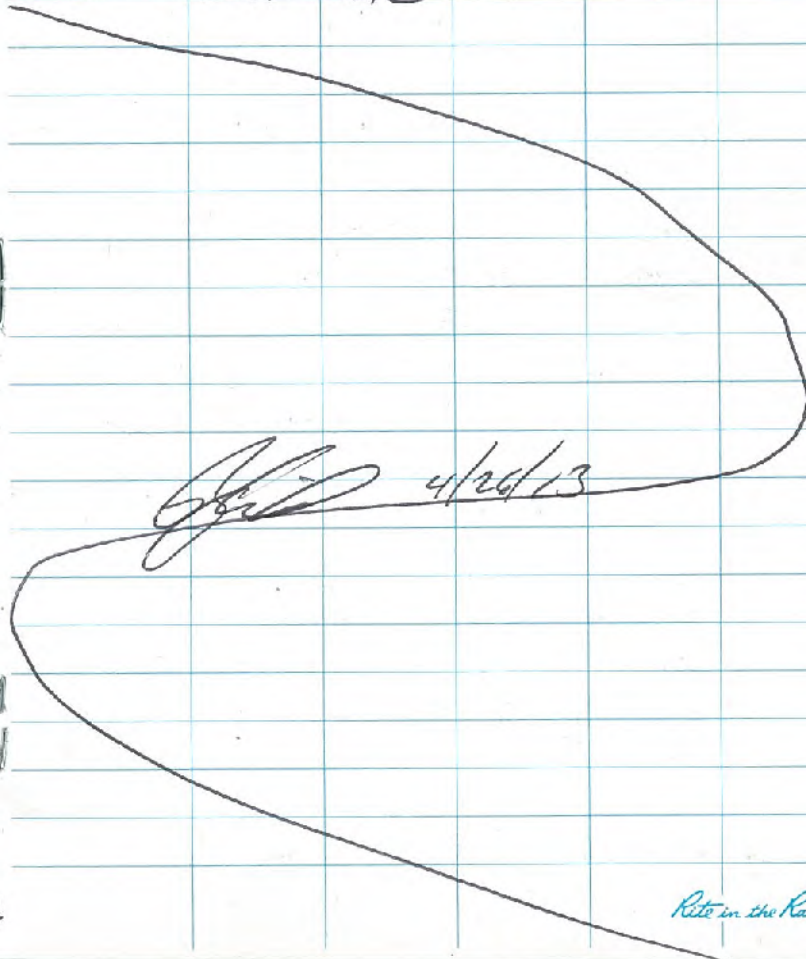
(Pb only) next to the former AST.

0-0.5' bgs Lat. 39.03912 Long. -94.51711

LCBP-SF-005

1200

Left site



*[Signature]* 4/26/13



4-29-13

START Erickson

0950 START Erickson and Ruan Do (Squall) arrived at the former Lafarge Concrete Batch Plant on Coal Mine Rd in Kansas City, MO. We prepared to start core drilling through concrete to prepare a hole for the beryllide investigation of subsurface soils at Loc. #11. We are using a tripod stand drill press with concrete coring bits.

Lat. 39.03933 Long. -94.51918

1010 Began cutting into concrete

1030 After cutting through approx 1' of concrete we were unable to advance the drill any further. After discussing with Dave Zimmerman on the phone, we moved to another location approx 40' SE of first hole.

1045 Began drilling at second location.

1055 Were unable to get further than 0.5' at this location and the drill bit broke. We decided that we are unable to get through the concrete at this location. To move off the concrete would put us upgradient.

4-29-13

START Erickson

1105 Moved to the second soil classification location to conduct beryllide investigation. Lat. 39.04033 Long. -94.51970

1105 Pulled first core from 0-4' bgs at this location. Description: 0-3' bgs brown clay, 3-4' bgs dark brown clay + rock.

1115 Pulled second core from 4-7' bgs where we hit refusal. Description: 4-7' bgs brown clay w/ rock mixed in. Collected sample from grain size from 5-7' bgs. LCBP-SC-002

1130 Collected Field Blank w/ Distilled water LCBP-WA-FB

1135 Collected Equipment Rinse Blank using Distilled water poured over decontaminated DPT probe.

LCBP-WA-ERB

1150 Left the site

*[Signature]*  
4/29/13

*Rite in the Rain*

## **APPENDIX D**

### **CHAIN-OF-CUSTODY RECORDS, ANALYTICAL DATA PACKAGES, AND DATA VALIDATION REPORT**



14-May-2013

Emily Fisher  
Tetra Tech  
415 Oak Street  
Kansas City, MO 64106

Re: **Municipal Farms-LaFarge Concrete Plant 4/26/13**

Work Order: **1305011**

Dear Emily,

ALS Environmental received 8 samples on 30-Apr-2013 10:00 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.

Sample results are compliant with NELAP standard requirements and QC results achieved 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 Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 115.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Environmental The ALS logo, a stylized blue triangle with a yellow flame.

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Work Order:** 1305011

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**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305011-01	LCBP-SF-001	Soil		4/26/2013 10:50	4/30/2013 10:00	<input type="checkbox"/>
1305011-02	LCBP-SF-002	Soil		4/26/2013 11:10	4/30/2013 10:00	<input type="checkbox"/>
1305011-03	LCBP-SF-003	Soil		4/26/2013 11:20	4/30/2013 10:00	<input type="checkbox"/>
1305011-04	LCBP-SF-004	Soil		4/26/2013 11:30	4/30/2013 10:00	<input type="checkbox"/>
1305011-05	LCBP-SF-005	Soil		4/26/2013 11:40	4/30/2013 10:00	<input type="checkbox"/>
1305011-06	LCBP-SC-002	Soil		4/29/2013 11:15	4/30/2013 10:00	<input type="checkbox"/>
1305011-07	LCBP-WA-FB	Water		4/29/2013 11:30	4/30/2013 10:00	<input type="checkbox"/>
1305011-08	LCBP-WA-ERB	Water		4/29/2013 11:35	4/30/2013 10:00	<input type="checkbox"/>

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**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Work Order:** 1305011

---

**Case Narrative**

Batch 48068 LCS recoveries for 4-Methyl-2-Pentanone and 1,2-Dibromo-3-chloropropane were above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for these compounds.

Batch 48107 sample LCBP-WA-FB MSD recoveries for Bis(2-ethylhexyl)phthalate and RPD were above control limits. The parent sample was ND for this compound. No data requires qualification.

Batches 48124 and 48140 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 48185 sample LCBP-SF-004 MS recovery for Bis(2-ethylhexyl)phthalate was above control limits. The parent sample was ND for this compound. No data requires qualification. The MSD recoveries for 4-Chloroaniline and 4-Nitroaniline were outside of the control limit. However, the MS recoveries and the RPDs between the MS and MSD was in control. No qualification is required for 4-Chloroaniline or 4-Nitroaniline.

Batch R120319A LCS recovery for 4-Methyl-2-Pentanone was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl-2-Pentanone. The MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

Batch R120347 LCS recoveries for Chloromethane and Dichlorodifluoromethane were above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for Chloromethane or Dichlorodifluoromethane. The MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**WorkOrder:** 1305011

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	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

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
% Passing	Percent Passing
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-001  
**Collection Date:** 4/26/2013 10:50 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.029		0.0010	0.020	mg/Kg-dry	1	5/3/2013 14:22
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	3.5		0.15	1.1	mg/Kg-dry	2	5/4/2013 02:36
Barium	120		0.031	1.1	mg/Kg-dry	2	5/4/2013 02:36
Cadmium	0.50		0.0045	0.45	mg/Kg-dry	2	5/4/2013 02:36
Chromium	18		0.18	1.1	mg/Kg-dry	2	5/4/2013 02:36
Lead	20		0.0045	1.1	mg/Kg-dry	2	5/4/2013 02:36
Selenium	1.5		0.14	1.1	mg/Kg-dry	2	5/4/2013 02:36
Silver	0.072	J	0.0045	1.1	mg/Kg-dry	2	5/4/2013 02:36
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 5/6/13	Analyst: RM
DRO (C10-C21)	U		1.8	4.3	mg/Kg-dry	1	5/8/2013 13:46
ORO (C21-C35)	67		2.0	4.3	mg/Kg-dry	1	5/8/2013 13:46
Surr: 4-Terphenyl-d14	96.5			25-137	%REC	1	5/8/2013 13:46
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 5/6/13	Analyst: RM
1,1'-Biphenyl	U		7.2	480	µg/Kg-dry	1	5/8/2013 15:29
2,4,5-Trichlorophenol	U		12	230	µg/Kg-dry	1	5/8/2013 15:29
2,4,6-Trichlorophenol	U		12	230	µg/Kg-dry	1	5/8/2013 15:29
2,4-Dichlorophenol	U		14	230	µg/Kg-dry	1	5/8/2013 15:29
2,4-Dimethylphenol	U		59	480	µg/Kg-dry	1	5/8/2013 15:29
2,4-Dinitrophenol	U		62	960	µg/Kg-dry	1	5/8/2013 15:29
2,4-Dinitrotoluene	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
2,6-Dinitrotoluene	U		14	230	µg/Kg-dry	1	5/8/2013 15:29
2-Chloronaphthalene	U		13	120	µg/Kg-dry	1	5/8/2013 15:29
2-Chlorophenol	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
2-Methylnaphthalene	U		14	120	µg/Kg-dry	1	5/8/2013 15:29
2-Methylphenol	U		14	230	µg/Kg-dry	1	5/8/2013 15:29
2-Nitroaniline	U		11	960	µg/Kg-dry	1	5/8/2013 15:29
2-Nitrophenol	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
3,3'-Dichlorobenzidine	U		14	960	µg/Kg-dry	1	5/8/2013 15:29
3-Nitroaniline	U		120	960	µg/Kg-dry	1	5/8/2013 15:29
4,6-Dinitro-2-methylphenol	U		70	480	µg/Kg-dry	1	5/8/2013 15:29
4-Bromophenyl phenyl ether	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
4-Chloro-3-methylphenol	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
4-Chloroaniline	U		19	960	µg/Kg-dry	1	5/8/2013 15:29
4-Chlorophenyl phenyl ether	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
4-Methylphenol	U		14	230	µg/Kg-dry	1	5/8/2013 15:29
4-Nitroaniline	U		22	960	µg/Kg-dry	1	5/8/2013 15:29

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-001  
**Collection Date:** 4/26/2013 10:50 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		59	960	µg/Kg-dry	1	5/8/2013 15:29
Acenaphthene	U		13	44	µg/Kg-dry	1	5/8/2013 15:29
Acenaphthylene	U		14	44	µg/Kg-dry	1	5/8/2013 15:29
<b>Acetophenone</b>	<b>54</b>	J	<b>7.3</b>	<b>480</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Anthracene	U		15	44	µg/Kg-dry	1	5/8/2013 15:29
Atrazine	U		15	480	µg/Kg-dry	1	5/8/2013 15:29
Benzaldehyde	U		19	480	µg/Kg-dry	1	5/8/2013 15:29
<b>Benzo(a)anthracene</b>	<b>99</b>		<b>18</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
<b>Benzo(a)pyrene</b>	<b>140</b>		<b>23</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
<b>Benzo(b)fluoranthene</b>	<b>180</b>		<b>24</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
<b>Benzo(g,h,i)perylene</b>	<b>93</b>		<b>34</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
<b>Benzo(k)fluoranthene</b>	<b>73</b>		<b>20</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Bis(2-chloroethoxy)methane	U		12	230	µg/Kg-dry	1	5/8/2013 15:29
Bis(2-chloroethyl)ether	U		12	230	µg/Kg-dry	1	5/8/2013 15:29
Bis(2-chloroisopropyl)ether	U		11	230	µg/Kg-dry	1	5/8/2013 15:29
<b>Bis(2-ethylhexyl)phthalate</b>	<b>99</b>	J	<b>14</b>	<b>480</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
<b>Butyl benzyl phthalate</b>	<b>110</b>	J	<b>20</b>	<b>230</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Caprolactam	U		21	480	µg/Kg-dry	1	5/8/2013 15:29
Carbazole	U		17	230	µg/Kg-dry	1	5/8/2013 15:29
<b>Chrysene</b>	<b>100</b>		<b>17</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
<b>Dibenzo(a,h)anthracene</b>	<b>54</b>		<b>25</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Dibenzofuran	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
Diethyl phthalate	U		12	480	µg/Kg-dry	1	5/8/2013 15:29
Dimethyl phthalate	U		12	480	µg/Kg-dry	1	5/8/2013 15:29
Di-n-butyl phthalate	U		15	480	µg/Kg-dry	1	5/8/2013 15:29
Di-n-octyl phthalate	U		18	230	µg/Kg-dry	1	5/8/2013 15:29
<b>Fluoranthene</b>	<b>200</b>		<b>17</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Fluorene	U		13	44	µg/Kg-dry	1	5/8/2013 15:29
Hexachlorobenzene	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
Hexachlorobutadiene	U		12	230	µg/Kg-dry	1	5/8/2013 15:29
Hexachlorocyclopentadiene	U		51	480	µg/Kg-dry	1	5/8/2013 15:29
Hexachloroethane	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
<b>Indeno(1,2,3-cd)pyrene</b>	<b>130</b>		<b>28</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Isophorone	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
Naphthalene	U		12	44	µg/Kg-dry	1	5/8/2013 15:29
Nitrobenzene	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
N-Nitrosodi-n-propylamine	U		13	230	µg/Kg-dry	1	5/8/2013 15:29
N-Nitrosodiphenylamine	U		87	230	µg/Kg-dry	1	5/8/2013 15:29
Pentachlorophenol	U		22	480	µg/Kg-dry	1	5/8/2013 15:29
<b>Phenanthrene</b>	<b>80</b>		<b>44</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-001  
**Collection Date:** 4/26/2013 10:50 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		12	230	µg/Kg-dry	1	5/8/2013 15:29
<b>Pyrene</b>	<b>180</b>		<b>18</b>	<b>44</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:29
Surr: 2,4,6-Tribromophenol	76.9			34-140	%REC	1	5/8/2013 15:29
Surr: 2-Fluorobiphenyl	71.0			12-100	%REC	1	5/8/2013 15:29
Surr: 2-Fluorophenol	94.5			33-117	%REC	1	5/8/2013 15:29
Surr: 4-Terphenyl-d14	101			25-137	%REC	1	5/8/2013 15:29
Surr: Nitrobenzene-d5	70.8			37-107	%REC	1	5/8/2013 15:29
Surr: Phenol-d6	92.3			40-106	%REC	1	5/8/2013 15:29
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 5/1/13	Analyst: <b>BG</b>	
<b>GRO (C6-C10)</b>	<b>2,800</b>	J	<b>1,800</b>	<b>7,300</b>	<b>µg/Kg-dry</b>	1	5/7/2013 18:35
Surr: Toluene-d8	92.2			70-130	%REC	1	5/7/2013 18:35
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.26	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,1,2,2-Tetrachloroethane	U		0.17	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,1,2-Trichloroethane	U		0.23	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,1,2-Trichlorotrifluoroethane	U		0.33	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,1-Dichloroethane	U		0.30	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,1-Dichloroethene	U		0.27	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,2,4-Trichlorobenzene	U		0.25	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,2-Dibromo-3-chloropropane	U		0.24	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,2-Dibromoethane	U		0.24	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,2-Dichlorobenzene	U		0.24	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,2-Dichloroethane	U		0.33	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,2-Dichloropropane	U		0.31	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,3-Dichlorobenzene	U		0.22	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
1,4-Dichlorobenzene	U		0.25	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
<b>2-Butanone</b>	<b>19</b>		<b>0.92</b>	<b>12</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
2-Hexanone	U		0.36	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
4-Methyl-2-pentanone	U		0.24	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Acetone	U		1.4	15	µg/Kg-dry	1	5/7/2013 18:35
<b>Benzene</b>	<b>1.1</b>	J	<b>0.30</b>	<b>6.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
Bromodichloromethane	U		0.25	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Bromoform	U		0.18	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Bromomethane	U		0.42	12	µg/Kg-dry	0.817	5/8/2013 13:15
<b>Carbon disulfide</b>	<b>0.85</b>	J	<b>0.44</b>	<b>6.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
Carbon tetrachloride	U		0.24	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Chlorobenzene	U		0.26	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Chloroethane	U		0.67	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Chloroform	U		0.31	6.0	µg/Kg-dry	0.817	5/8/2013 13:15

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-001  
**Collection Date:** 4/26/2013 10:50 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.37	12	µg/Kg-dry	0.817	5/8/2013 13:15
cis-1,2-Dichloroethene	U		0.35	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
cis-1,3-Dichloropropene	U		0.21	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
<b>Cyclohexane</b>	<b>1.4</b>	<b>J</b>	<b>0.38</b>	<b>6.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
Dibromochloromethane	U		0.20	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Dichlorodifluoromethane	U		0.40	12	µg/Kg-dry	0.817	5/8/2013 13:15
<b>Ethylbenzene</b>	<b>0.35</b>	<b>J</b>	<b>0.23</b>	<b>6.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
Isopropylbenzene	U		0.23	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
<b>m,p-Xylene</b>	<b>0.50</b>	<b>J</b>	<b>0.45</b>	<b>3.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
Methyl acetate	U		0.96	12	µg/Kg-dry	0.817	5/8/2013 13:15
Methyl tert-butyl ether	U		0.30	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
<b>Methylcyclohexane</b>	<b>2.2</b>	<b>J</b>	<b>0.33</b>	<b>12</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
<b>Methylene chloride</b>	<b>1.2</b>	<b>J</b>	<b>0.34</b>	<b>6.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
o-Xylene	U		0.24	3.0	µg/Kg-dry	0.817	5/8/2013 13:15
Styrene	U		0.22	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Tetrachloroethene	U		0.36	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
<b>Toluene</b>	<b>1.3</b>	<b>J</b>	<b>0.28</b>	<b>6.0</b>	<b>µg/Kg-dry</b>	0.817	5/8/2013 13:15
trans-1,2-Dichloroethene	U		0.35	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
trans-1,3-Dichloropropene	U		0.22	12	µg/Kg-dry	0.817	5/8/2013 13:15
Trichloroethene	U		0.28	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Trichlorofluoromethane	U		1.4	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Vinyl chloride	U		0.36	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Xylenes, Total	U		0.69	6.0	µg/Kg-dry	0.817	5/8/2013 13:15
Surr: 1,2-Dichloroethane-d4	98.8			70-120	%REC	1	5/7/2013 18:35
Surr: 1,2-Dichloroethane-d4	117			70-120	%REC	0.817	5/8/2013 13:15
Surr: 4-Bromofluorobenzene	99.4			75-120	%REC	1	5/7/2013 18:35
Surr: 4-Bromofluorobenzene	103			75-120	%REC	0.817	5/8/2013 13:15
Surr: Dibromofluoromethane	96.5			85-115	%REC	1	5/7/2013 18:35
Surr: Dibromofluoromethane	106			85-115	%REC	0.817	5/8/2013 13:15
Surr: Toluene-d8	97.8			85-120	%REC	1	5/7/2013 18:35
Surr: Toluene-d8	103			85-120	%REC	0.817	5/8/2013 13:15
<b>MOISTURE</b>			Method: A2540 G				Analyst: BAS
<b>Moisture</b>	<b>32</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>5/1/2013 11:30</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-002  
**Collection Date:** 4/26/2013 11:10 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471		Prep: SW7471 / 5/2/13		Analyst: LR
Mercury	0.033		0.0011	0.021	mg/Kg-dry	1	5/3/2013 14:24
<b>METALS BY ICP-MS</b>							
			Method:SW6020A		Prep: SW3050B / 5/2/13		Analyst: ML
Arsenic	3.6		0.34	2.5	mg/Kg-dry	5	5/4/2013 02:42
Barium	84		0.069	2.5	mg/Kg-dry	5	5/4/2013 02:42
Cadmium	3.0		0.0099	0.99	mg/Kg-dry	5	5/4/2013 02:42
Chromium	49		0.41	2.5	mg/Kg-dry	5	5/4/2013 02:42
Lead	44		0.0099	2.5	mg/Kg-dry	5	5/4/2013 02:42
Selenium	2.9		0.32	2.5	mg/Kg-dry	5	5/4/2013 02:42
Silver	0.048	J	0.0099	2.5	mg/Kg-dry	5	5/4/2013 02:42
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270		Prep: SW3541 / 5/6/13		Analyst: RM
DRO (C10-C21)	U		1.8	4.1	mg/Kg-dry	1	5/8/2013 14:06
ORO (C21-C35)	100		2.0	4.1	mg/Kg-dry	1	5/8/2013 14:06
Surr: 4-Terphenyl-d14	93.9			25-137	%REC	1	5/8/2013 14:06
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270		Prep: SW3541 / 5/6/13		Analyst: RM
1,1'-Biphenyl	U		7.0	460	µg/Kg-dry	1	5/8/2013 15:49
2,4,5-Trichlorophenol	U		11	220	µg/Kg-dry	1	5/8/2013 15:49
2,4,6-Trichlorophenol	U		11	220	µg/Kg-dry	1	5/8/2013 15:49
2,4-Dichlorophenol	U		14	220	µg/Kg-dry	1	5/8/2013 15:49
2,4-Dimethylphenol	U		57	460	µg/Kg-dry	1	5/8/2013 15:49
2,4-Dinitrophenol	U		60	930	µg/Kg-dry	1	5/8/2013 15:49
2,4-Dinitrotoluene	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
2,6-Dinitrotoluene	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
2-Chloronaphthalene	U		13	110	µg/Kg-dry	1	5/8/2013 15:49
2-Chlorophenol	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
2-Methylnaphthalene	U		14	110	µg/Kg-dry	1	5/8/2013 15:49
2-Methylphenol	U		14	220	µg/Kg-dry	1	5/8/2013 15:49
2-Nitroaniline	U		11	930	µg/Kg-dry	1	5/8/2013 15:49
2-Nitrophenol	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
3,3'-Dichlorobenzidine	U		13	930	µg/Kg-dry	1	5/8/2013 15:49
3-Nitroaniline	U		110	930	µg/Kg-dry	1	5/8/2013 15:49
4,6-Dinitro-2-methylphenol	U		68	460	µg/Kg-dry	1	5/8/2013 15:49
4-Bromophenyl phenyl ether	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
4-Chloro-3-methylphenol	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
4-Chloroaniline	U		18	930	µg/Kg-dry	1	5/8/2013 15:49
4-Chlorophenyl phenyl ether	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
4-Methylphenol	U		14	220	µg/Kg-dry	1	5/8/2013 15:49
4-Nitroaniline	U		21	930	µg/Kg-dry	1	5/8/2013 15:49

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-002  
**Collection Date:** 4/26/2013 11:10 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		57	930	µg/Kg-dry	1	5/8/2013 15:49
Acenaphthene	U		13	42	µg/Kg-dry	1	5/8/2013 15:49
Acenaphthylene	U		13	42	µg/Kg-dry	1	5/8/2013 15:49
<b>Acetophenone</b>	<b>110</b>	J	<b>7.0</b>	<b>460</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Anthracene	U		14	42	µg/Kg-dry	1	5/8/2013 15:49
Atrazine	U		14	460	µg/Kg-dry	1	5/8/2013 15:49
Benzaldehyde	U		18	460	µg/Kg-dry	1	5/8/2013 15:49
<b>Benzo(a)anthracene</b>	<b>40</b>	J	<b>17</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
<b>Benzo(a)pyrene</b>	<b>73</b>		<b>22</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
<b>Benzo(b)fluoranthene</b>	<b>80</b>		<b>23</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
<b>Benzo(g,h,i)perylene</b>	<b>57</b>		<b>33</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
<b>Benzo(k)fluoranthene</b>	<b>40</b>	J	<b>19</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Bis(2-chloroethoxy)methane	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
Bis(2-chloroethyl)ether	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
Bis(2-chloroisopropyl)ether	U		11	220	µg/Kg-dry	1	5/8/2013 15:49
<b>Bis(2-ethylhexyl)phthalate</b>	<b>340</b>	J	<b>14</b>	<b>460</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
<b>Butyl benzyl phthalate</b>	<b>190</b>	J	<b>19</b>	<b>220</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Caprolactam	U		20	460	µg/Kg-dry	1	5/8/2013 15:49
Carbazole	U		16	220	µg/Kg-dry	1	5/8/2013 15:49
<b>Chrysene</b>	<b>25</b>	J	<b>16</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Dibenzo(a,h)anthracene	U		24	42	µg/Kg-dry	1	5/8/2013 15:49
Dibenzofuran	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
Diethyl phthalate	U		12	460	µg/Kg-dry	1	5/8/2013 15:49
Dimethyl phthalate	U		12	460	µg/Kg-dry	1	5/8/2013 15:49
<b>Di-n-butyl phthalate</b>	<b>70</b>	J	<b>14</b>	<b>460</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Di-n-octyl phthalate	U		17	220	µg/Kg-dry	1	5/8/2013 15:49
<b>Fluoranthene</b>	<b>44</b>		<b>17</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Fluorene	U		12	42	µg/Kg-dry	1	5/8/2013 15:49
Hexachlorobenzene	U		13	220	µg/Kg-dry	1	5/8/2013 15:49
Hexachlorobutadiene	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
Hexachlorocyclopentadiene	U		49	460	µg/Kg-dry	1	5/8/2013 15:49
Hexachloroethane	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
<b>Indeno(1,2,3-cd)pyrene</b>	<b>79</b>		<b>27</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Isophorone	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
Naphthalene	U		12	42	µg/Kg-dry	1	5/8/2013 15:49
Nitrobenzene	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
N-Nitrosodi-n-propylamine	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
N-Nitrosodiphenylamine	U		83	220	µg/Kg-dry	1	5/8/2013 15:49
Pentachlorophenol	U		21	460	µg/Kg-dry	1	5/8/2013 15:49
Phenanthrene	U		42	42	µg/Kg-dry	1	5/8/2013 15:49

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-002  
**Collection Date:** 4/26/2013 11:10 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		12	220	µg/Kg-dry	1	5/8/2013 15:49
<b>Pyrene</b>	<b>58</b>		<b>18</b>	<b>42</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:49
Surr: 2,4,6-Tribromophenol	74.7			34-140	%REC	1	5/8/2013 15:49
Surr: 2-Fluorobiphenyl	73.2			12-100	%REC	1	5/8/2013 15:49
Surr: 2-Fluorophenol	99.8			33-117	%REC	1	5/8/2013 15:49
Surr: 4-Terphenyl-d14	95.8			25-137	%REC	1	5/8/2013 15:49
Surr: Nitrobenzene-d5	73.3			37-107	%REC	1	5/8/2013 15:49
Surr: Phenol-d6	97.8			40-106	%REC	1	5/8/2013 15:49
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 5/1/13	Analyst: <b>BG</b>	
<b>GRO (C6-C10)</b>	<b>2,500</b>	J	<b>1,800</b>	<b>7,000</b>	<b>µg/Kg-dry</b>	1	5/7/2013 18:59
Surr: Toluene-d8	94.8			70-130	%REC	1	5/7/2013 18:59
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.26	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,1,2,2-Tetrachloroethane	U		0.17	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,1,2-Trichloroethane	U		0.22	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,1,2-Trichlorotrifluoroethane	U		0.32	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,1-Dichloroethane	U		0.30	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,1-Dichloroethene	U		0.26	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,2,4-Trichlorobenzene	U		0.24	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,2-Dibromo-3-chloropropane	U		0.23	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,2-Dibromoethane	U		0.24	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,2-Dichlorobenzene	U		0.24	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,2-Dichloroethane	U		0.32	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,2-Dichloropropane	U		0.30	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,3-Dichlorobenzene	U		0.22	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
1,4-Dichlorobenzene	U		0.24	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
<b>2-Butanone</b>	<b>11</b>	J	<b>0.89</b>	<b>12</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
<b>2-Hexanone</b>	<b>1.1</b>	J	<b>0.35</b>	<b>5.8</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
4-Methyl-2-pentanone	U		0.23	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
<b>Acetone</b>	<b>73</b>		<b>1.1</b>	<b>12</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
<b>Benzene</b>	<b>0.45</b>	J	<b>0.29</b>	<b>5.8</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
Bromodichloromethane	U		0.24	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Bromoform	U		0.18	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Bromomethane	U		0.41	12	µg/Kg-dry	0.828	5/8/2013 13:43
Carbon disulfide	U		0.43	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Carbon tetrachloride	U		0.24	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Chlorobenzene	U		0.26	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Chloroethane	U		0.65	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Chloroform	U		0.30	5.8	µg/Kg-dry	0.828	5/8/2013 13:43

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-002  
**Collection Date:** 4/26/2013 11:10 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.36	12	µg/Kg-dry	0.828	5/8/2013 13:43
cis-1,2-Dichloroethene	U		0.34	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
cis-1,3-Dichloropropene	U		0.21	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
<b>Cyclohexane</b>	<b>0.62</b>	J	<b>0.37</b>	<b>5.8</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
Dibromochloromethane	U		0.20	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Dichlorodifluoromethane	U		0.39	12	µg/Kg-dry	0.828	5/8/2013 13:43
Ethylbenzene	U		0.22	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Isopropylbenzene	U		0.22	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
m,p-Xylene	U		0.44	2.9	µg/Kg-dry	0.828	5/8/2013 13:43
Methyl acetate	U		0.94	12	µg/Kg-dry	0.828	5/8/2013 13:43
Methyl tert-butyl ether	U		0.29	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
<b>Methylcyclohexane</b>	<b>0.95</b>	J	<b>0.32</b>	<b>12</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
<b>Methylene chloride</b>	<b>1.1</b>	J	<b>0.33</b>	<b>5.8</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
o-Xylene	U		0.23	2.9	µg/Kg-dry	0.828	5/8/2013 13:43
Styrene	U		0.21	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Tetrachloroethene	U		0.35	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
<b>Toluene</b>	<b>0.53</b>	J	<b>0.27</b>	<b>5.8</b>	<b>µg/Kg-dry</b>	0.828	5/8/2013 13:43
trans-1,2-Dichloroethene	U		0.34	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
trans-1,3-Dichloropropene	U		0.22	12	µg/Kg-dry	0.828	5/8/2013 13:43
Trichloroethene	U		0.27	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Trichlorofluoromethane	U		1.3	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Vinyl chloride	U		0.35	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Xylenes, Total	U		0.67	5.8	µg/Kg-dry	0.828	5/8/2013 13:43
Surr: 1,2-Dichloroethane-d4	113			70-120	%REC	0.828	5/8/2013 13:43
Surr: 4-Bromofluorobenzene	93.6			75-120	%REC	0.828	5/8/2013 13:43
Surr: Dibromofluoromethane	100			85-115	%REC	0.828	5/8/2013 13:43
Surr: Toluene-d8	98.0			85-120	%REC	0.828	5/8/2013 13:43
<b>MOISTURE</b>			Method: A2540 G				Analyst: BAS
<b>Moisture</b>	<b>29</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	1	5/1/2013 11:30

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-003  
**Collection Date:** 4/26/2013 11:20 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471		Prep: SW7471 / 5/2/13		Analyst: LR
Mercury	0.023		0.00091	0.018	mg/Kg-dry	1	5/3/2013 14:26
<b>METALS BY ICP-MS</b>							
			Method:SW6020A		Prep: SW3050B / 5/2/13		Analyst: ML
Arsenic	5.9		0.13	0.99	mg/Kg-dry	2	5/4/2013 03:07
Barium	210		0.028	0.99	mg/Kg-dry	2	5/4/2013 03:07
Cadmium	0.56		0.0040	0.40	mg/Kg-dry	2	5/4/2013 03:07
Chromium	18		0.16	0.99	mg/Kg-dry	2	5/4/2013 03:07
Lead	110		0.0040	0.99	mg/Kg-dry	2	5/4/2013 03:07
Selenium	0.62	J	0.13	0.99	mg/Kg-dry	2	5/4/2013 03:07
Silver	0.083	J	0.0040	0.99	mg/Kg-dry	2	5/4/2013 03:07
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270		Prep: SW3541 / 5/6/13		Analyst: RM
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	5/8/2013 14:27
ORO (C21-C35)	27		1.8	3.7	mg/Kg-dry	1	5/8/2013 14:27
Surr: 4-Terphenyl-d14	96.0			25-137	%REC	1	5/8/2013 14:27
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270		Prep: SW3541 / 5/6/13		Analyst: RM
1,1'-Biphenyl	U		6.3	420	µg/Kg-dry	1	5/8/2013 16:09
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/8/2013 16:09
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/8/2013 16:09
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/8/2013 16:09
2,4-Dimethylphenol	U		51	420	µg/Kg-dry	1	5/8/2013 16:09
2,4-Dinitrophenol	U		54	830	µg/Kg-dry	1	5/8/2013 16:09
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
2,6-Dinitrotoluene	52	J	12	200	µg/Kg-dry	1	5/8/2013 16:09
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	5/8/2013 16:09
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
2-Methylnaphthalene	U		12	100	µg/Kg-dry	1	5/8/2013 16:09
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/8/2013 16:09
2-Nitroaniline	U		9.6	830	µg/Kg-dry	1	5/8/2013 16:09
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
3,3'-Dichlorobenzidine	U		12	830	µg/Kg-dry	1	5/8/2013 16:09
3-Nitroaniline	110	J	100	830	µg/Kg-dry	1	5/8/2013 16:09
4,6-Dinitro-2-methylphenol	U		61	420	µg/Kg-dry	1	5/8/2013 16:09
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
4-Chloroaniline	U		16	830	µg/Kg-dry	1	5/8/2013 16:09
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	5/8/2013 16:09
4-Methylphenol	U		12	200	µg/Kg-dry	1	5/8/2013 16:09
4-Nitroaniline	U		19	830	µg/Kg-dry	1	5/8/2013 16:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-003  
**Collection Date:** 4/26/2013 11:20 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	62	J	51	830	µg/Kg-dry	1	5/8/2013 16:09
Acenaphthene	U		12	38	µg/Kg-dry	1	5/8/2013 16:09
Acenaphthylene	U		12	38	µg/Kg-dry	1	5/8/2013 16:09
Acetophenone	U		6.3	420	µg/Kg-dry	1	5/8/2013 16:09
Anthracene	28	J	13	38	µg/Kg-dry	1	5/8/2013 16:09
Atrazine	U		13	420	µg/Kg-dry	1	5/8/2013 16:09
Benzaldehyde	U		16	420	µg/Kg-dry	1	5/8/2013 16:09
Benzo(a)anthracene	120		15	38	µg/Kg-dry	1	5/8/2013 16:09
Benzo(a)pyrene	140		19	38	µg/Kg-dry	1	5/8/2013 16:09
Benzo(b)fluoranthene	180		20	38	µg/Kg-dry	1	5/8/2013 16:09
Benzo(g,h,i)perylene	81		30	38	µg/Kg-dry	1	5/8/2013 16:09
Benzo(k)fluoranthene	71		17	38	µg/Kg-dry	1	5/8/2013 16:09
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	5/8/2013 16:09
Bis(2-chloroethyl)ether	92	J	11	200	µg/Kg-dry	1	5/8/2013 16:09
Bis(2-chloroisopropyl)ether	50	J	9.8	200	µg/Kg-dry	1	5/8/2013 16:09
Bis(2-ethylhexyl)phthalate	47	J	12	420	µg/Kg-dry	1	5/8/2013 16:09
Butyl benzyl phthalate	61	J	17	200	µg/Kg-dry	1	5/8/2013 16:09
Caprolactam	U		18	420	µg/Kg-dry	1	5/8/2013 16:09
Carbazole	U		14	200	µg/Kg-dry	1	5/8/2013 16:09
Chrysene	120		14	38	µg/Kg-dry	1	5/8/2013 16:09
Dibenzo(a,h)anthracene	45		22	38	µg/Kg-dry	1	5/8/2013 16:09
Dibenzofuran	U		12	200	µg/Kg-dry	1	5/8/2013 16:09
Diethyl phthalate	U		10	420	µg/Kg-dry	1	5/8/2013 16:09
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	5/8/2013 16:09
Di-n-butyl phthalate	50	J	13	420	µg/Kg-dry	1	5/8/2013 16:09
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	5/8/2013 16:09
Fluoranthene	280		15	38	µg/Kg-dry	1	5/8/2013 16:09
Fluorene	U		11	38	µg/Kg-dry	1	5/8/2013 16:09
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
Hexachlorocyclopentadiene	U		44	420	µg/Kg-dry	1	5/8/2013 16:09
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
Indeno(1,2,3-cd)pyrene	110		24	38	µg/Kg-dry	1	5/8/2013 16:09
Isophorone	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
Naphthalene	U		11	38	µg/Kg-dry	1	5/8/2013 16:09
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
N-Nitrosodiphenylamine	U		75	200	µg/Kg-dry	1	5/8/2013 16:09
Pentachlorophenol	U		19	420	µg/Kg-dry	1	5/8/2013 16:09
Phenanthrene	120		38	38	µg/Kg-dry	1	5/8/2013 16:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-003  
**Collection Date:** 4/26/2013 11:20 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	200	µg/Kg-dry	1	5/8/2013 16:09
<b>Pyrene</b>	<b>210</b>		<b>16</b>	<b>38</b>	<b>µg/Kg-dry</b>	1	5/8/2013 16:09
Surr: 2,4,6-Tribromophenol	72.1			34-140	%REC	1	5/8/2013 16:09
Surr: 2-Fluorobiphenyl	70.0			12-100	%REC	1	5/8/2013 16:09
Surr: 2-Fluorophenol	93.4			33-117	%REC	1	5/8/2013 16:09
Surr: 4-Terphenyl-d14	93.9			25-137	%REC	1	5/8/2013 16:09
Surr: Nitrobenzene-d5	71.8			37-107	%REC	1	5/8/2013 16:09
Surr: Phenol-d6	94.8			40-106	%REC	1	5/8/2013 16:09
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 5/1/13	Analyst: <b>BG</b>	
<b>GRO (C6-C10)</b>	<b>2,100</b>	J	<b>1,600</b>	<b>6,400</b>	<b>µg/Kg-dry</b>	1	5/7/2013 19:24
Surr: Toluene-d8	93.5			70-130	%REC	1	5/7/2013 19:24
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,1,2-Trichlorotrifluoroethane	U		0.30	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,2-Dibromoethane	U		0.22	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,2-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,2-Dichloroethane	U		0.30	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,2-Dichloropropane	U		0.28	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
<b>2-Butanone</b>	<b>20</b>		<b>0.82</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.833	5/8/2013 14:11
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Acetone	U		1.2	13	µg/Kg-dry	1	5/7/2013 19:24
<b>Benzene</b>	<b>0.51</b>	J	<b>0.26</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.833	5/8/2013 14:11
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Bromoform	U		0.16	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Bromomethane	U		0.38	11	µg/Kg-dry	0.833	5/8/2013 14:11
<b>Carbon disulfide</b>	<b>6.2</b>		<b>0.39</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.833	5/8/2013 14:11
Carbon tetrachloride	U		0.22	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Chlorobenzene	U		0.24	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Chloroethane	U		0.60	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Chloroform	U		0.28	5.3	µg/Kg-dry	0.833	5/8/2013 14:11

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-003  
**Collection Date:** 4/26/2013 11:20 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.33	11	µg/Kg-dry	0.833	5/8/2013 14:11
cis-1,2-Dichloroethene	U		0.32	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Cyclohexane	U		0.34	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.833	5/8/2013 14:11
Ethylbenzene	U		0.21	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Isopropylbenzene	U		0.21	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
m,p-Xylene	U		0.40	2.7	µg/Kg-dry	0.833	5/8/2013 14:11
Methyl acetate	U		0.86	11	µg/Kg-dry	0.833	5/8/2013 14:11
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Methylcyclohexane	U		0.30	11	µg/Kg-dry	0.833	5/8/2013 14:11
<b>Methylene chloride</b>	<b>0.92</b>	<b>J</b>	<b>0.30</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.833	5/8/2013 14:11
o-Xylene	U		0.21	2.7	µg/Kg-dry	0.833	5/8/2013 14:11
Styrene	U		0.19	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
<b>Toluene</b>	<b>0.43</b>	<b>J</b>	<b>0.25</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.833	5/8/2013 14:11
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.833	5/8/2013 14:11
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Vinyl chloride	U		0.33	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.833	5/8/2013 14:11
Surr: 1,2-Dichloroethane-d4	96.2			70-120	%REC	1	5/7/2013 19:24
Surr: 1,2-Dichloroethane-d4	111			70-120	%REC	0.833	5/8/2013 14:11
Surr: 4-Bromofluorobenzene	99.4			75-120	%REC	1	5/7/2013 19:24
Surr: 4-Bromofluorobenzene	98.6			75-120	%REC	0.833	5/8/2013 14:11
Surr: Dibromofluoromethane	96.2			85-115	%REC	1	5/7/2013 19:24
Surr: Dibromofluoromethane	103			85-115	%REC	0.833	5/8/2013 14:11
Surr: Toluene-d8	99.0			85-120	%REC	1	5/7/2013 19:24
Surr: Toluene-d8	93.7			85-120	%REC	0.833	5/8/2013 14:11
<b>MOISTURE</b>			Method: A2540 G				Analyst: BAS
<b>Moisture</b>	<b>22</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>5/1/2013 11:30</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-004  
**Collection Date:** 4/26/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471		Prep: SW7471 / 5/2/13		Analyst: LR
Mercury	0.026		0.00084	0.017	mg/Kg-dry	1	5/3/2013 14:28
<b>METALS BY ICP-MS</b>							
			Method:SW6020A		Prep: SW3050B / 5/3/13		Analyst: ML
Arsenic	1.4		0.057	0.42	mg/Kg-dry	1	5/4/2013 03:25
Barium	32		0.012	0.42	mg/Kg-dry	1	5/4/2013 03:25
Cadmium	1.3		0.0017	0.17	mg/Kg-dry	1	5/4/2013 03:25
Chromium	8.2		0.069	0.42	mg/Kg-dry	1	5/4/2013 03:25
Lead	46		0.0017	0.42	mg/Kg-dry	1	5/4/2013 03:25
Selenium	0.27	J	0.054	0.42	mg/Kg-dry	1	5/4/2013 03:25
Silver	0.014	J	0.0017	0.42	mg/Kg-dry	1	5/4/2013 03:25
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270		Prep: SW3541 / 5/6/13		Analyst: RM
DRO (C10-C21)	U		1.4	3.2	mg/Kg-dry	1	5/8/2013 13:26
ORO (C21-C35)	33		1.5	3.2	mg/Kg-dry	1	5/8/2013 13:26
Surr: 4-Terphenyl-d14	83.4			25-137	%REC	1	5/8/2013 13:26
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270		Prep: SW3541 / 5/6/13		Analyst: RM
1,1'-Biphenyl	U		5.5	360	µg/Kg-dry	1	5/8/2013 15:09
2,4,5-Trichlorophenol	U		8.8	180	µg/Kg-dry	1	5/8/2013 15:09
2,4,6-Trichlorophenol	U		8.8	180	µg/Kg-dry	1	5/8/2013 15:09
2,4-Dichlorophenol	U		11	180	µg/Kg-dry	1	5/8/2013 15:09
2,4-Dimethylphenol	U		45	360	µg/Kg-dry	1	5/8/2013 15:09
2,4-Dinitrophenol	U		47	730	µg/Kg-dry	1	5/8/2013 15:09
2,4-Dinitrotoluene	U		9.8	180	µg/Kg-dry	1	5/8/2013 15:09
2,6-Dinitrotoluene	U		10	180	µg/Kg-dry	1	5/8/2013 15:09
2-Chloronaphthalene	U		10	88	µg/Kg-dry	1	5/8/2013 15:09
2-Chlorophenol	U		9.8	180	µg/Kg-dry	1	5/8/2013 15:09
2-Methylnaphthalene	U		11	88	µg/Kg-dry	1	5/8/2013 15:09
2-Methylphenol	U		11	180	µg/Kg-dry	1	5/8/2013 15:09
2-Nitroaniline	U		8.4	730	µg/Kg-dry	1	5/8/2013 15:09
2-Nitrophenol	U		9.6	180	µg/Kg-dry	1	5/8/2013 15:09
3,3'-Dichlorobenzidine	U		10	730	µg/Kg-dry	1	5/8/2013 15:09
3-Nitroaniline	U		89	730	µg/Kg-dry	1	5/8/2013 15:09
4,6-Dinitro-2-methylphenol	U		53	360	µg/Kg-dry	1	5/8/2013 15:09
4-Bromophenyl phenyl ether	U		9.5	180	µg/Kg-dry	1	5/8/2013 15:09
4-Chloro-3-methylphenol	U		9.9	180	µg/Kg-dry	1	5/8/2013 15:09
4-Chloroaniline	U		14	730	µg/Kg-dry	1	5/8/2013 15:09
4-Chlorophenyl phenyl ether	U		10	180	µg/Kg-dry	1	5/8/2013 15:09
4-Methylphenol	U		11	180	µg/Kg-dry	1	5/8/2013 15:09
4-Nitroaniline	U		16	730	µg/Kg-dry	1	5/8/2013 15:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-004  
**Collection Date:** 4/26/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		44	730	µg/Kg-dry	1	5/8/2013 15:09
Acenaphthene	U		10	33	µg/Kg-dry	1	5/8/2013 15:09
Acenaphthylene	U		10	33	µg/Kg-dry	1	5/8/2013 15:09
<b>Acetophenone</b>	<b>60</b>	J	<b>5.5</b>	<b>360</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Anthracene	U		11	33	µg/Kg-dry	1	5/8/2013 15:09
Atrazine	U		11	360	µg/Kg-dry	1	5/8/2013 15:09
Benzaldehyde	U		14	360	µg/Kg-dry	1	5/8/2013 15:09
<b>Benzo(a)anthracene</b>	<b>43</b>		<b>13</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
<b>Benzo(a)pyrene</b>	<b>65</b>		<b>17</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
<b>Benzo(b)fluoranthene</b>	<b>84</b>		<b>18</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
<b>Benzo(g,h,i)perylene</b>	<b>49</b>		<b>26</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
<b>Benzo(k)fluoranthene</b>	<b>39</b>		<b>15</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Bis(2-chloroethoxy)methane	U		9.0	180	µg/Kg-dry	1	5/8/2013 15:09
Bis(2-chloroethyl)ether	U		9.2	180	µg/Kg-dry	1	5/8/2013 15:09
Bis(2-chloroisopropyl)ether	U		8.6	180	µg/Kg-dry	1	5/8/2013 15:09
<b>Bis(2-ethylhexyl)phthalate</b>	<b>1,300</b>		<b>11</b>	<b>360</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
<b>Butyl benzyl phthalate</b>	<b>92</b>	J	<b>15</b>	<b>180</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Caprolactam	U		16	360	µg/Kg-dry	1	5/8/2013 15:09
Carbazole	U		13	180	µg/Kg-dry	1	5/8/2013 15:09
<b>Chrysene</b>	<b>37</b>		<b>12</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Dibenzo(a,h)anthracene	U		19	33	µg/Kg-dry	1	5/8/2013 15:09
Dibenzofuran	U		10	180	µg/Kg-dry	1	5/8/2013 15:09
Diethyl phthalate	U		9.1	360	µg/Kg-dry	1	5/8/2013 15:09
Dimethyl phthalate	U		9.2	360	µg/Kg-dry	1	5/8/2013 15:09
<b>Di-n-butyl phthalate</b>	<b>85</b>	J	<b>11</b>	<b>360</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Di-n-octyl phthalate	U		14	180	µg/Kg-dry	1	5/8/2013 15:09
<b>Fluoranthene</b>	<b>51</b>		<b>13</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Fluorene	U		9.6	33	µg/Kg-dry	1	5/8/2013 15:09
Hexachlorobenzene	U		10	180	µg/Kg-dry	1	5/8/2013 15:09
Hexachlorobutadiene	U		9.3	180	µg/Kg-dry	1	5/8/2013 15:09
Hexachlorocyclopentadiene	U		38	360	µg/Kg-dry	1	5/8/2013 15:09
Hexachloroethane	U		9.6	180	µg/Kg-dry	1	5/8/2013 15:09
<b>Indeno(1,2,3-cd)pyrene</b>	<b>72</b>		<b>21</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Isophorone	U		9.5	180	µg/Kg-dry	1	5/8/2013 15:09
Naphthalene	U		9.4	33	µg/Kg-dry	1	5/8/2013 15:09
Nitrobenzene	U		9.5	180	µg/Kg-dry	1	5/8/2013 15:09
N-Nitrosodi-n-propylamine	U		9.6	180	µg/Kg-dry	1	5/8/2013 15:09
N-Nitrosodiphenylamine	U		65	180	µg/Kg-dry	1	5/8/2013 15:09
Pentachlorophenol	U		16	360	µg/Kg-dry	1	5/8/2013 15:09
Phenanthrene	U		33	33	µg/Kg-dry	1	5/8/2013 15:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-004  
**Collection Date:** 4/26/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		9.3	180	µg/Kg-dry	1	5/8/2013 15:09
<b>Pyrene</b>	<b>58</b>		<b>14</b>	<b>33</b>	<b>µg/Kg-dry</b>	1	5/8/2013 15:09
Surr: 2,4,6-Tribromophenol	66.8			34-140	%REC	1	5/8/2013 15:09
Surr: 2-Fluorobiphenyl	64.4			12-100	%REC	1	5/8/2013 15:09
Surr: 2-Fluorophenol	93.8			33-117	%REC	1	5/8/2013 15:09
Surr: 4-Terphenyl-d14	79.8			25-137	%REC	1	5/8/2013 15:09
Surr: Nitrobenzene-d5	66.5			37-107	%REC	1	5/8/2013 15:09
Surr: Phenol-d6	94.7			40-106	%REC	1	5/8/2013 15:09
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 5/1/13	Analyst: <b>BG</b>	
<b>GRO (C6-C10)</b>	<b>1,700</b>	J	<b>1,400</b>	<b>5,600</b>	<b>µg/Kg-dry</b>	1	5/7/2013 19:49
Surr: Toluene-d8	94.2			70-130	%REC	1	5/7/2013 19:49
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>		Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		0.21	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,1,2,2-Tetrachloroethane	U		0.14	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,1,2-Trichloroethane	U		0.19	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,1,2-Trichlorotrifluoroethane	U		0.27	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,1-Dichloroethane	U		0.25	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,1-Dichloroethene	U		0.22	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,2,4-Trichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,2-Dibromo-3-chloropropane	U		0.19	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,2-Dibromoethane	U		0.20	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,2-Dichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,2-Dichloroethane	U		0.27	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,2-Dichloropropane	U		0.25	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,3-Dichlorobenzene	U		0.18	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
1,4-Dichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
<b>2-Butanone</b>	<b>8.5</b>	J	<b>0.75</b>	<b>9.7</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
2-Hexanone	U		0.29	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
4-Methyl-2-pentanone	U		0.19	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
<b>Acetone</b>	<b>52</b>		<b>0.91</b>	<b>9.7</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
<b>Benzene</b>	<b>0.71</b>	J	<b>0.24</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
Bromodichloromethane	U		0.20	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Bromoform	U		0.15	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Bromomethane	U		0.34	9.7	µg/Kg-dry	0.864	5/8/2013 14:39
<b>Carbon disulfide</b>	<b>2.2</b>	J	<b>0.36</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
Carbon tetrachloride	U		0.20	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Chlorobenzene	U		0.22	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Chloroethane	U		0.55	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Chloroform	U		0.26	4.9	µg/Kg-dry	0.864	5/8/2013 14:39

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-SF-004  
**Collection Date:** 4/26/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.30	9.7	µg/Kg-dry	0.864	5/8/2013 14:39
cis-1,2-Dichloroethene	U		0.29	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
cis-1,3-Dichloropropene	U		0.18	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
<b>Cyclohexane</b>	<b>0.80</b>	J	<b>0.31</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
Dibromochloromethane	U		0.16	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Dichlorodifluoromethane	U		0.32	9.7	µg/Kg-dry	0.864	5/8/2013 14:39
<b>Ethylbenzene</b>	<b>0.34</b>	J	<b>0.19</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
Isopropylbenzene	U		0.19	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
<b>m,p-Xylene</b>	<b>0.37</b>	J	<b>0.37</b>	<b>2.4</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
Methyl acetate	U		0.78	9.7	µg/Kg-dry	0.864	5/8/2013 14:39
Methyl tert-butyl ether	U		0.25	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
<b>Methylcyclohexane</b>	<b>1.3</b>	J	<b>0.27</b>	<b>9.7</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
<b>Methylene chloride</b>	<b>0.94</b>	J	<b>0.28</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
o-Xylene	U		0.19	2.4	µg/Kg-dry	0.864	5/8/2013 14:39
Styrene	U		0.18	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Tetrachloroethene	U		0.29	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
<b>Toluene</b>	<b>0.94</b>	J	<b>0.23</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.864	5/8/2013 14:39
trans-1,2-Dichloroethene	U		0.29	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
trans-1,3-Dichloropropene	U		0.18	9.7	µg/Kg-dry	0.864	5/8/2013 14:39
Trichloroethene	U		0.23	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Trichlorofluoromethane	U		1.1	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Vinyl chloride	U		0.30	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Xylenes, Total	U		0.56	4.9	µg/Kg-dry	0.864	5/8/2013 14:39
Surr: 1,2-Dichloroethane-d4	110			70-120	%REC	0.864	5/8/2013 14:39
Surr: 4-Bromofluorobenzene	102			75-120	%REC	0.864	5/8/2013 14:39
Surr: Dibromofluoromethane	106			85-115	%REC	0.864	5/8/2013 14:39
Surr: Toluene-d8	97.8			85-120	%REC	0.864	5/8/2013 14:39
<b>MOISTURE</b>			Method: A2540 G				Analyst: BAS
<b>Moisture</b>	<b>11</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>5/1/2013 11:30</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 14-May-13**Client:** Tetra Tech**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13**Work Order:** 1305011**Sample ID:** LCBP-SF-005**Lab ID:** 1305011-05**Collection Date:** 4/26/2013 11:40 AM**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			Method: <b>SW6020A</b>		Prep: SW3050B / 5/3/13		Analyst: <b>ML</b>
Lead	27		0.0021	0.52	mg/Kg-dry	1	5/4/2013 03:30
<b>MOISTURE</b>			Method: <b>A2540 G</b>				Analyst: <b>BAS</b>
Moisture	28		0.025	0.050	% of sample	1	5/1/2013 11:30

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-FB  
**Collection Date:** 4/29/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-07  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
Mercury	U		Method:SW7470 0.00010	0.00020	mg/L	Prep: SW7470 / 5/3/13 1	Analyst: LR 5/3/2013 15:45
<b>MERCURY BY CVAA (DISSOLVED)</b>							
Mercury	U		Method:SW7470 0.00010	0.00020	mg/L	Prep: SW7470 / 5/3/13 1	Analyst: LR 5/3/2013 15:51
<b>METALS BY ICP-MS</b>							
Arsenic	U		Method:SW6020A 0.00058	0.0050	mg/L	Prep: SW3005A / 5/6/13 1	Analyst: RH 5/6/2013 22:19
Barium	U		0.000063	0.0050	mg/L	1	5/6/2013 22:19
Cadmium	U		0.000045	0.0020	mg/L	1	5/6/2013 22:19
Chromium	U		0.00027	0.0050	mg/L	1	5/6/2013 22:19
Lead	U		0.000051	0.0030	mg/L	1	5/6/2013 22:19
Selenium	U		0.00064	0.0050	mg/L	1	5/6/2013 22:19
Silver	U		0.000042	0.00020	mg/L	1	5/6/2013 22:19
<b>METALS BY ICP-MS (DISSOLVED)</b>							
Arsenic	U		Method:SW6020A 0.00058	0.0050	mg/L	1	Analyst: RH 5/4/2013 05:56
Barium	0.000088	J	0.000063	0.0050	mg/L	1	5/2/2013 03:03
Cadmium	U		0.000045	0.0020	mg/L	1	5/2/2013 03:03
Chromium	U		0.00027	0.0050	mg/L	1	5/4/2013 05:56
Lead	0.000087	J	0.000051	0.0030	mg/L	1	5/2/2013 03:03
Selenium	U		0.00064	0.0050	mg/L	1	5/4/2013 05:56
Silver	U		0.000042	0.00020	mg/L	1	5/4/2013 05:56
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
DRO (C10-C21)	U		Method:SW8270 0.013	0.10	mg/L	Prep: SW3510 / 5/2/13 1	Analyst: RM 5/8/2013 12:25
ORO (C21-C35)	U		0.027	0.10	mg/L	1	5/8/2013 12:25
Surr: 4-Terphenyl-d14	106			23-112	%REC	1	5/8/2013 12:25
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
1,1'-Biphenyl	U		Method:SW8270 0.095	5.0	µg/L	Prep: SW3510 / 5/2/13 1	Analyst: RM 5/6/2013 16:13
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	5/6/2013 16:13
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	5/6/2013 16:13
2,4-Dichlorophenol	U		0.22	10	µg/L	1	5/6/2013 16:13
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	5/6/2013 16:13
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	5/6/2013 16:13
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	5/6/2013 16:13
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	5/6/2013 16:13
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	5/6/2013 16:13
2-Chlorophenol	U		0.73	5.0	µg/L	1	5/6/2013 16:13
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	5/6/2013 16:13
2-Methylphenol	U		0.60	5.0	µg/L	1	5/6/2013 16:13

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-FB  
**Collection Date:** 4/29/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-07  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Nitroaniline	U		0.11	20	µg/L	1	5/6/2013 16:13
2-Nitrophenol	U		0.19	5.0	µg/L	1	5/6/2013 16:13
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	5/6/2013 16:13
3-Nitroaniline	U		2.5	20	µg/L	1	5/6/2013 16:13
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	5/6/2013 16:13
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	5/6/2013 16:13
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	5/6/2013 16:13
4-Chloroaniline	U		1.1	20	µg/L	1	5/6/2013 16:13
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	5/6/2013 16:13
4-Methylphenol	U		0.55	5.0	µg/L	1	5/6/2013 16:13
4-Nitroaniline	U		1.5	20	µg/L	1	5/6/2013 16:13
4-Nitrophenol	U		1.6	20	µg/L	1	5/6/2013 16:13
Acenaphthene	U		0.11	5.0	µg/L	1	5/6/2013 16:13
Acenaphthylene	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Acetophenone	U		0.090	1.0	µg/L	1	5/6/2013 16:13
Anthracene	U		0.72	5.0	µg/L	1	5/6/2013 16:13
Atrazine	U		3.2	10	µg/L	1	5/6/2013 16:13
Benzaldehyde	U		0.46	1.0	µg/L	1	5/6/2013 16:13
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	5/6/2013 16:13
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	5/6/2013 16:13
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	5/6/2013 16:13
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	5/6/2013 16:13
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	5/6/2013 16:13
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	5/6/2013 16:13
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	5/6/2013 16:13
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	5/6/2013 16:13
Caprolactam	U		4.7	10	µg/L	1	5/6/2013 16:13
Carbazole	U		0.84	10	µg/L	1	5/6/2013 16:13
Chrysene	U		0.71	5.0	µg/L	1	5/6/2013 16:13
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	5/6/2013 16:13
Dibenzofuran	U		0.11	5.0	µg/L	1	5/6/2013 16:13
Diethyl phthalate	U		0.69	20	µg/L	1	5/6/2013 16:13
Dimethyl phthalate	U		0.14	20	µg/L	1	5/6/2013 16:13
Di-n-butyl phthalate	U		0.71	5.0	µg/L	1	5/6/2013 16:13
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Fluoranthene	U		0.77	5.0	µg/L	1	5/6/2013 16:13
Fluorene	U		0.10	5.0	µg/L	1	5/6/2013 16:13
Hexachlorobenzene	U		0.10	5.0	µg/L	1	5/6/2013 16:13

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-FB  
**Collection Date:** 4/29/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-07  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	5/6/2013 16:13
Hexachloroethane	U		0.13	5.0	µg/L	1	5/6/2013 16:13
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	5/6/2013 16:13
Isophorone	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Naphthalene	U		0.12	5.0	µg/L	1	5/6/2013 16:13
Nitrobenzene	U		0.10	5.0	µg/L	1	5/6/2013 16:13
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	5/6/2013 16:13
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	5/6/2013 16:13
Pentachlorophenol	U		0.11	20	µg/L	1	5/6/2013 16:13
Phenanthrene	U		0.86	5.0	µg/L	1	5/6/2013 16:13
Phenol	U		0.094	5.0	µg/L	1	5/6/2013 16:13
Pyrene	U		0.65	5.0	µg/L	1	5/6/2013 16:13
Surr: 2,4,6-Tribromophenol	65.8			32-115	%REC	1	5/6/2013 16:13
Surr: 2-Fluorobiphenyl	81.5			32-100	%REC	1	5/6/2013 16:13
Surr: 2-Fluorophenol	50.7			22-59	%REC	1	5/6/2013 16:13
Surr: 4-Terphenyl-d14	106			23-112	%REC	1	5/6/2013 16:13
Surr: Nitrobenzene-d5	83.7			31-93	%REC	1	5/6/2013 16:13
Surr: Phenol-d6	29.9			13-36	%REC	1	5/6/2013 16:13
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: SW8260GRO			Analyst: BG	
GRO (C6-C10)	30	J	25	100	µg/L	1	5/7/2013 20:13
Surr: Toluene-d8	94.4			70-130	%REC	1	5/7/2013 20:13
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260			Analyst: BG	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	5/7/2013 20:13
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	5/7/2013 20:13
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	5/7/2013 20:13
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	5/7/2013 20:13
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	5/7/2013 20:13
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	5/7/2013 20:13
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	5/7/2013 20:13
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	5/7/2013 20:13
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	5/7/2013 20:13
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	5/7/2013 20:13
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	5/7/2013 20:13
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	5/7/2013 20:13
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	5/7/2013 20:13
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	5/7/2013 20:13
2-Butanone	U		0.22	5.0	µg/L	1	5/7/2013 20:13
2-Hexanone	U		0.12	5.0	µg/L	1	5/7/2013 20:13

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-FB  
**Collection Date:** 4/29/2013 11:30 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-07  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	5/7/2013 20:13
<b>Acetone</b>	<b>4.7</b>	<b>J</b>	<b>0.33</b>	<b>20</b>	<b>µg/L</b>	1	5/7/2013 20:13
Benzene	U		0.18	1.0	µg/L	1	5/7/2013 20:13
Bromodichloromethane	U		0.12	1.0	µg/L	1	5/7/2013 20:13
Bromoform	U		0.15	1.0	µg/L	1	5/7/2013 20:13
Bromomethane	U		0.21	1.0	µg/L	1	5/7/2013 20:13
Carbon disulfide	U		0.17	2.5	µg/L	1	5/7/2013 20:13
Carbon tetrachloride	U		0.12	1.0	µg/L	1	5/7/2013 20:13
Chlorobenzene	U		0.13	1.0	µg/L	1	5/7/2013 20:13
Chloroethane	U		0.46	1.0	µg/L	1	5/7/2013 20:13
Chloroform	U		0.15	1.0	µg/L	1	5/7/2013 20:13
Chloromethane	U		0.16	1.0	µg/L	1	5/7/2013 20:13
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	5/7/2013 20:13
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	5/7/2013 20:13
Cyclohexane	U		0.22	5.0	µg/L	1	5/7/2013 20:13
Dibromochloromethane	U		0.13	1.0	µg/L	1	5/7/2013 20:13
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	5/7/2013 20:13
Ethylbenzene	U		0.13	1.0	µg/L	1	5/7/2013 20:13
Isopropylbenzene	U		0.14	1.0	µg/L	1	5/7/2013 20:13
m,p-Xylene	U		0.20	2.0	µg/L	1	5/7/2013 20:13
Methyl acetate	U		0.19	2.0	µg/L	1	5/7/2013 20:13
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	5/7/2013 20:13
Methylcyclohexane	U		0.99	5.0	µg/L	1	5/7/2013 20:13
Methylene chloride	U		0.19	5.0	µg/L	1	5/7/2013 20:13
o-Xylene	U		0.086	1.0	µg/L	1	5/7/2013 20:13
Styrene	U		0.11	1.0	µg/L	1	5/7/2013 20:13
Tetrachloroethene	U		0.15	2.0	µg/L	1	5/7/2013 20:13
Toluene	U		0.12	1.0	µg/L	1	5/7/2013 20:13
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	5/7/2013 20:13
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	5/7/2013 20:13
Trichloroethene	U		0.14	1.0	µg/L	1	5/7/2013 20:13
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	5/7/2013 20:13
Vinyl chloride	U		0.17	1.0	µg/L	1	5/7/2013 20:13
Xylenes, Total	U		0.29	3.0	µg/L	1	5/7/2013 20:13
Surr: 1,2-Dichloroethane-d4	101			70-120	%REC	1	5/7/2013 20:13
Surr: 4-Bromofluorobenzene	99.8			75-120	%REC	1	5/7/2013 20:13
Surr: Dibromofluoromethane	95.4			85-115	%REC	1	5/7/2013 20:13
Surr: Toluene-d8	100			85-120	%REC	1	5/7/2013 20:13

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-ERB  
**Collection Date:** 4/29/2013 11:35 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-08  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7470</b>		Prep: SW7470 / 5/3/13		Analyst: <b>LR</b>
Mercury	U		0.00010	0.00020	mg/L	1	5/3/2013 15:53
<b>MERCURY BY CVAA (DISSOLVED)</b>							
			Method: <b>SW7470</b>		Prep: SW7470 / 5/3/13		Analyst: <b>LR</b>
Mercury	U		0.00010	0.00020	mg/L	1	5/3/2013 15:55
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020A</b>		Prep: SW3005A / 5/6/13		Analyst: <b>RH</b>
Arsenic	U		0.00058	0.0050	mg/L	1	5/6/2013 22:24
Barium	U		0.000063	0.0050	mg/L	1	5/6/2013 22:24
Cadmium	U		0.000045	0.0020	mg/L	1	5/6/2013 22:24
<b>Chromium</b>	<b>0.00057</b>	<b>J</b>	<b>0.00027</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/6/2013 22:24
Lead	U		0.000051	0.0030	mg/L	1	5/6/2013 22:24
Selenium	U		0.00064	0.0050	mg/L	1	5/6/2013 22:24
Silver	U		0.000042	0.00020	mg/L	1	5/6/2013 22:24
<b>METALS BY ICP-MS (DISSOLVED)</b>							
			Method: <b>SW6020A</b>				Analyst: <b>RH</b>
Arsenic	U		0.00058	0.0050	mg/L	1	5/4/2013 06:02
Barium	U		0.000063	0.0050	mg/L	1	5/2/2013 03:09
Cadmium	U		0.000045	0.0020	mg/L	1	5/2/2013 03:09
Chromium	U		0.00027	0.0050	mg/L	1	5/4/2013 06:02
Lead	U		0.000051	0.0030	mg/L	1	5/2/2013 03:09
Selenium	U		0.00064	0.0050	mg/L	1	5/4/2013 06:02
Silver	U		0.000042	0.00020	mg/L	1	5/4/2013 06:02
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method: <b>SW8270</b>		Prep: SW3510 / 5/2/13		Analyst: <b>RM</b>
DRO (C10-C21)	U		0.013	0.10	mg/L	1	5/8/2013 12:46
ORO (C21-C35)	U		0.027	0.10	mg/L	1	5/8/2013 12:46
Surr: 4-Terphenyl-d14	89.8			23-112	%REC	1	5/8/2013 12:46
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8270</b>		Prep: SW3510 / 5/2/13		Analyst: <b>HL</b>
<b>1,1'-Biphenyl</b>	<b>0.87</b>	<b>J</b>	<b>0.095</b>	<b>5.0</b>	<b>µg/L</b>	1	5/3/2013 17:38
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	5/3/2013 17:38
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	5/3/2013 17:38
2,4-Dichlorophenol	U		0.22	10	µg/L	1	5/3/2013 17:38
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	5/3/2013 17:38
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	5/3/2013 17:38
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	5/3/2013 17:38
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	5/3/2013 17:38
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	5/3/2013 17:38
2-Chlorophenol	U		0.73	5.0	µg/L	1	5/3/2013 17:38
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	5/3/2013 17:38
2-Methylphenol	U		0.60	5.0	µg/L	1	5/3/2013 17:38

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-ERB  
**Collection Date:** 4/29/2013 11:35 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-08  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Nitroaniline	U		0.11	20	µg/L	1	5/3/2013 17:38
2-Nitrophenol	U		0.19	5.0	µg/L	1	5/3/2013 17:38
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	5/3/2013 17:38
3-Nitroaniline	U		2.5	20	µg/L	1	5/3/2013 17:38
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	5/3/2013 17:38
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	5/3/2013 17:38
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	5/3/2013 17:38
4-Chloroaniline	U		1.1	20	µg/L	1	5/3/2013 17:38
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	5/3/2013 17:38
4-Methylphenol	U		0.55	5.0	µg/L	1	5/3/2013 17:38
4-Nitroaniline	U		1.5	20	µg/L	1	5/3/2013 17:38
4-Nitrophenol	U		1.6	20	µg/L	1	5/3/2013 17:38
Acenaphthene	U		0.11	5.0	µg/L	1	5/3/2013 17:38
Acenaphthylene	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Acetophenone	U		0.090	1.0	µg/L	1	5/3/2013 17:38
Anthracene	U		0.72	5.0	µg/L	1	5/3/2013 17:38
Atrazine	U		3.2	10	µg/L	1	5/3/2013 17:38
<b>Benzaldehyde</b>	<b>1.0</b>		<b>0.46</b>	<b>1.0</b>	<b>µg/L</b>	1	5/3/2013 17:38
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	5/3/2013 17:38
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	5/3/2013 17:38
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	5/3/2013 17:38
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	5/3/2013 17:38
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	5/3/2013 17:38
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	5/3/2013 17:38
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	5/3/2013 17:38
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	5/3/2013 17:38
Caprolactam	U		4.7	10	µg/L	1	5/3/2013 17:38
Carbazole	U		0.84	10	µg/L	1	5/3/2013 17:38
Chrysene	U		0.71	5.0	µg/L	1	5/3/2013 17:38
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	5/3/2013 17:38
Dibenzofuran	U		0.11	5.0	µg/L	1	5/3/2013 17:38
Diethyl phthalate	U		0.69	20	µg/L	1	5/3/2013 17:38
Dimethyl phthalate	U		0.14	20	µg/L	1	5/3/2013 17:38
<b>Di-n-butyl phthalate</b>	<b>2.1</b>	<b>J</b>	<b>0.71</b>	<b>5.0</b>	<b>µg/L</b>	1	5/3/2013 17:38
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Fluoranthene	U		0.77	5.0	µg/L	1	5/3/2013 17:38
Fluorene	U		0.10	5.0	µg/L	1	5/3/2013 17:38
Hexachlorobenzene	U		0.10	5.0	µg/L	1	5/3/2013 17:38

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-ERB  
**Collection Date:** 4/29/2013 11:35 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-08  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	5/3/2013 17:38
Hexachloroethane	U		0.13	5.0	µg/L	1	5/3/2013 17:38
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	5/3/2013 17:38
Isophorone	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Naphthalene	U		0.12	5.0	µg/L	1	5/3/2013 17:38
Nitrobenzene	U		0.10	5.0	µg/L	1	5/3/2013 17:38
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	5/3/2013 17:38
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	5/3/2013 17:38
Pentachlorophenol	U		0.11	20	µg/L	1	5/3/2013 17:38
Phenanthrene	U		0.86	5.0	µg/L	1	5/3/2013 17:38
Phenol	U		0.094	5.0	µg/L	1	5/3/2013 17:38
Pyrene	U		0.65	5.0	µg/L	1	5/3/2013 17:38
Surr: 2,4,6-Tribromophenol	64.7			32-115	%REC	1	5/3/2013 17:38
Surr: 2-Fluorobiphenyl	69.3			32-100	%REC	1	5/3/2013 17:38
Surr: 2-Fluorophenol	43.2			22-59	%REC	1	5/3/2013 17:38
Surr: 4-Terphenyl-d14	91.4			23-112	%REC	1	5/3/2013 17:38
Surr: Nitrobenzene-d5	55.8			31-93	%REC	1	5/3/2013 17:38
Surr: Phenol-d6	21.3			13-36	%REC	1	5/3/2013 17:38
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: SW8260GRO			Analyst: BG	
GRO (C6-C10)	33	J	25	100	µg/L	1	5/7/2013 20:38
Surr: Toluene-d8	95.0			70-130	%REC	1	5/7/2013 20:38
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260			Analyst: BG	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	5/7/2013 20:38
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	5/7/2013 20:38
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	5/7/2013 20:38
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	5/7/2013 20:38
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	5/7/2013 20:38
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	5/7/2013 20:38
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	5/7/2013 20:38
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	5/7/2013 20:38
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	5/7/2013 20:38
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	5/7/2013 20:38
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	5/7/2013 20:38
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	5/7/2013 20:38
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	5/7/2013 20:38
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	5/7/2013 20:38
2-Butanone	U		0.22	5.0	µg/L	1	5/7/2013 20:38
2-Hexanone	U		0.12	5.0	µg/L	1	5/7/2013 20:38

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 14-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13  
**Sample ID:** LCBP-WA-ERB  
**Collection Date:** 4/29/2013 11:35 AM

**Work Order:** 1305011  
**Lab ID:** 1305011-08  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	5/7/2013 20:38
<b>Acetone</b>	<b>4.6</b>	<b>J</b>	<b>0.33</b>	<b>20</b>	<b>µg/L</b>	1	5/7/2013 20:38
Benzene	U		0.18	1.0	µg/L	1	5/7/2013 20:38
Bromodichloromethane	U		0.12	1.0	µg/L	1	5/7/2013 20:38
Bromoform	U		0.15	1.0	µg/L	1	5/7/2013 20:38
Bromomethane	U		0.21	1.0	µg/L	1	5/7/2013 20:38
Carbon disulfide	U		0.17	2.5	µg/L	1	5/7/2013 20:38
Carbon tetrachloride	U		0.12	1.0	µg/L	1	5/7/2013 20:38
Chlorobenzene	U		0.13	1.0	µg/L	1	5/7/2013 20:38
Chloroethane	U		0.46	1.0	µg/L	1	5/7/2013 20:38
Chloroform	U		0.15	1.0	µg/L	1	5/7/2013 20:38
Chloromethane	U		0.16	1.0	µg/L	1	5/7/2013 20:38
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	5/7/2013 20:38
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	5/7/2013 20:38
Cyclohexane	U		0.22	5.0	µg/L	1	5/7/2013 20:38
Dibromochloromethane	U		0.13	1.0	µg/L	1	5/7/2013 20:38
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	5/7/2013 20:38
Ethylbenzene	U		0.13	1.0	µg/L	1	5/7/2013 20:38
Isopropylbenzene	U		0.14	1.0	µg/L	1	5/7/2013 20:38
m,p-Xylene	U		0.20	2.0	µg/L	1	5/7/2013 20:38
Methyl acetate	U		0.19	2.0	µg/L	1	5/7/2013 20:38
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	5/7/2013 20:38
Methylcyclohexane	U		0.99	5.0	µg/L	1	5/7/2013 20:38
Methylene chloride	U		0.19	5.0	µg/L	1	5/7/2013 20:38
o-Xylene	U		0.086	1.0	µg/L	1	5/7/2013 20:38
Styrene	U		0.11	1.0	µg/L	1	5/7/2013 20:38
Tetrachloroethene	U		0.15	2.0	µg/L	1	5/7/2013 20:38
Toluene	U		0.12	1.0	µg/L	1	5/7/2013 20:38
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	5/7/2013 20:38
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	5/7/2013 20:38
Trichloroethene	U		0.14	1.0	µg/L	1	5/7/2013 20:38
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	5/7/2013 20:38
Vinyl chloride	U		0.17	1.0	µg/L	1	5/7/2013 20:38
Xylenes, Total	U		0.29	3.0	µg/L	1	5/7/2013 20:38
Surr: 1,2-Dichloroethane-d4	96.9			70-120	%REC	1	5/7/2013 20:38
Surr: 4-Bromofluorobenzene	98.2			75-120	%REC	1	5/7/2013 20:38
Surr: Dibromofluoromethane	96.4			85-115	%REC	1	5/7/2013 20:38
Surr: Toluene-d8	96.9			85-120	%REC	1	5/7/2013 20:38

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 14-May-13**Client:** Tetra Tech**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13**Work Order:** 1305011**Sample ID:** LCBP-SC-002**Lab ID:** 1305011-06**Collection Date:** 4/29/2013 11:15 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PARTICLE-SIZE ANALYSIS OF SOILS</b>			<b>D422</b>			Analyst: <b>KK</b>
3 Inch Sieve	100			% Passing	1	5/8/2013
1.5 Inch Sieve	100			% Passing	1	5/8/2013
0.75 Inch Sieve	100			% Passing	1	5/8/2013
0.375 Inch Sieve	100			% Passing	1	5/8/2013
No. 4 Sieve (4.75 mm)	75.0			% Passing	1	5/8/2013
No. 10 Sieve (2.00 mm)	57.6			% Passing	1	5/8/2013
No. 16 Sieve (1.18 mm)	53.3			% Passing	1	5/8/2013
No. 30 Sieve (0.60 mm)	48.2			% Passing	1	5/8/2013
No. 50 Sieve (0.30 mm)	44.1			% Passing	1	5/8/2013
No. 60 Sieve (0.25 mm)	43.1			% Passing	1	5/8/2013
No. 100 Sieve (0.15 mm)	40.2			% Passing	1	5/8/2013
No. 200 Sieve (0.075 mm)	38.1			% Passing	1	5/8/2013
0.030 mm (Hydrometer)	24.0			% Passing	1	5/8/2013
0.005 mm (Hydrometer)	14.0			% Passing	1	5/8/2013
0.0015 mm (Hydrometer)	12.0			% Passing	1	5/8/2013
% Gravel	42.4			% Passing	1	5/8/2013
% Sand	19.5			% Passing	1	5/8/2013
% Silt, Clay, Colloids	38.1			% Passing	1	5/8/2013

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

Client: Tetra Tech

**QC BATCH REPORT**

Work Order: 1305011

Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

Batch ID: 48122

Instrument ID HG1

Method: SW7471

<b>MBLK</b>		Sample ID: <b>MBLK-48122-48122</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:10 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303644</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001833	0.020								J

<b>LCS</b>		Sample ID: <b>LCS-48122-48122</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:12 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303645</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1729	0.020	0.1665	0	104	80-120	0			

<b>MS</b>		Sample ID: <b>1305016-02BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:41 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303659</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1175	0.013	0.1092	0.01669	92.3	75-125	0			

<b>MSD</b>		Sample ID: <b>1305016-02BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:43 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303660</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.129	0.015	0.125	0.01669	89.8	75-125	0.1175	9.32	35	

The following samples were analyzed in this batch:

1305011-01C	1305011-02C	1305011-03C
1305011-04C		

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48147** Instrument ID **HG1** Method: **SW7470**

<b>MBLK</b>	Sample ID: <b>MBLK-48147-48147</b>					Units: <b>mg/L</b>		Analysis Date: <b>5/3/2013 03:41 PM</b>		
Client ID:	Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303677</b>		Prep Date: <b>5/3/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.00020

<b>LCS</b>	Sample ID: <b>LCS-48147-48147</b>					Units: <b>mg/L</b>		Analysis Date: <b>5/3/2013 03:43 PM</b>		
Client ID:	Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303678</b>		Prep Date: <b>5/3/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.0019 0.00020 0.002 0 95 80-120 0

<b>MS</b>	Sample ID: <b>1305011-07CMS</b>					Units: <b>mg/L</b>		Analysis Date: <b>5/3/2013 03:47 PM</b>		
Client ID: <b>LCBP-WA-FB</b>	Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303680</b>		Prep Date: <b>5/3/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001909 0.00020 0.002 0.000019 94.5 75-125 0

<b>MSD</b>	Sample ID: <b>1305011-07CMSD</b>					Units: <b>mg/L</b>		Analysis Date: <b>5/3/2013 03:49 PM</b>		
Client ID: <b>LCBP-WA-FB</b>	Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303681</b>		Prep Date: <b>5/3/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001927 0.00020 0.002 0.000019 95.4 75-125 0.001909 0.938 20

The following samples were analyzed in this batch:

1305011-07C	1305011-07D	1305011-08C
1305011-08D		

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: 48124 Instrument ID ICPMS1 Method: SW6020A

<b>MBLK</b>		Sample ID: <b>MBLK-48124-48124</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 11:11 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2304978</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	0.001223	0.25								J

<b>LCS</b>		Sample ID: <b>LCS-48124-48124</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 11:17 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2304980</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.43	0.25	5	0	88.6	80-120	0			
Barium	4.738	0.25	5	0	94.8	80-120	0			
Cadmium	4.558	0.10	5	0	91.2	80-120	0			
Chromium	4.747	0.25	5	0	94.9	80-120	0			
Lead	4.944	0.25	5	0	98.9	80-120	0			
Selenium	4.02	0.25	5	0	80.4	80-120	0			
Silver	4.506	0.25	5	0	90.1	80-120	0			

<b>MS</b>		Sample ID: <b>1305016-02BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 08:44 AM</b>		
Client ID:		Run ID: <b>ICPMS1_130502A</b>				SeqNo: <b>2302824</b>		Prep Date: <b>5/2/2013</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.16	1.8	7.133	4.379	109	75-125	0			
Barium	328.7	1.8	7.133	411.8	-1170	75-125	0			SO
Cadmium	7.411	0.71	7.133	0.4296	97.9	75-125	0			
Chromium	19.4	1.8	7.133	10.38	126	75-125	0			S
Lead	18.31	1.8	7.133	9.942	117	75-125	0			
Selenium	6.969	1.8	7.133	0.392	92.2	75-125	0			
Silver	6.141	1.8	7.133	0.05322	85.4	75-125	0			

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48124**      Instrument ID **ICPMS1**      Method: **SW6020A**

MSD		Sample ID: <b>1305016-02BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 08:50 AM</b>		
Client ID:		Run ID: <b>ICPMS1_130502A</b>				SeqNo: <b>2302825</b>		Prep Date: <b>5/2/2013</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.96	1.8	7.299	4.379	104	75-125	12.16	1.7	25	
Barium	416.1	1.8	7.299	411.8	57.7	75-125	328.7	23.5	25	SO
Cadmium	7.81	0.73	7.299	0.4296	101	75-125	7.411	5.25	25	
Chromium	20.65	1.8	7.299	10.38	141	75-125	19.4	6.25	25	S
Lead	18.4	1.8	7.299	9.942	116	75-125	18.31	0.5	25	
Selenium	7.328	1.8	7.299	0.392	95	75-125	6.969	5.03	25	
Silver	6.219	1.8	7.299	0.05322	84.5	75-125	6.141	1.26	25	

The following samples were analyzed in this batch:

1305011-01C	1305011-02C	1305011-03C
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48140** Instrument ID **ICPMS1** Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-48140-48140</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 04:24 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2303979</b>		Prep Date: <b>5/3/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	0.00604	0.10								J
Chromium	U	0.25								
Lead	0.00713	0.25								J
Selenium	U	0.25								
Silver	0.0077	0.25								J

<b>LCS</b>		Sample ID: <b>LCS-48140-48140</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 04:32 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2303980</b>		Prep Date: <b>5/3/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.322	0.25	5	0	86.4	80-120	0			
Barium	4.714	0.25	5	0	94.3	80-120	0			
Cadmium	4.574	0.10	5	0	91.5	80-120	0			
Chromium	4.714	0.25	5	0	94.3	80-120	0			
Lead	4.832	0.25	5	0	96.6	80-120	0			
Selenium	4.031	0.25	5	0	80.6	80-120	0			
Silver	2.699	0.25	5	0	54	80-120	0			S

<b>MS</b>		Sample ID: <b>1305035-03BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 05:09 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2303986</b>		Prep Date: <b>5/3/2013</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.44	1.7	6.729	4.678	85.7	75-125	0			
Cadmium	6.676	0.67	6.729	0.175	96.6	75-125	0			
Chromium	40.98	1.7	6.729	36.8	62.1	75-125	0			SO
Lead	16	1.7	6.729	9.128	102	75-125	0			
Selenium	6.706	1.7	6.729	0.6143	90.5	75-125	0			
Silver	3.435	1.7	6.729	0.04074	50.4	75-125	0			S

<b>MS</b>		Sample ID: <b>1305035-03BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/4/2013 02:24 AM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2305045</b>		Prep Date: <b>5/3/2013</b>		DF: <b>50</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	920.3	17	6.729	1147	-3360	75-125	0			SO

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48140**      Instrument ID **ICPMS1**      Method: **SW6020A**

MSD		Sample ID: <b>1305035-03BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 05:15 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2303987</b>		Prep Date: <b>5/3/2013</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.36	1.7	6.693	4.678	115	75-125	10.44	16.8	25	
Cadmium	6.687	0.67	6.693	0.175	97.3	75-125	6.676	0.166	25	
Chromium	46.29	1.7	6.693	36.8	142	75-125	40.98	12.2	25	SO
Lead	15.98	1.7	6.693	9.128	102	75-125	16	0.0752	25	
Selenium	6.436	1.7	6.693	0.6143	87	75-125	6.706	4.11	25	
Silver	3.497	1.7	6.693	0.04074	51.6	75-125	3.435	1.79	25	S

MSD		Sample ID: <b>1305035-03BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/4/2013 02:30 AM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2305046</b>		Prep Date: <b>5/3/2013</b>		DF: <b>50</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	992	17	6.693	1147	-2310	75-125	920.3	7.5	25	SO

The following samples were analyzed in this batch:

1305011-04C	1305011-05A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: 48172 Instrument ID ICPMS2 Method: SW6020A

<b>MBLK</b>		Sample ID: <b>MBLK-48172-48172</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/7/2013 08:35 AM</b>		
Client ID:		Run ID: <b>ICPMS2_130506A</b>				SeqNo: <b>2307256</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

<b>LCS</b>		Sample ID: <b>LCS-48172-48172</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/6/2013 09:31 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130506A</b>				SeqNo: <b>2306725</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09571	0.0050	0.1	0	95.7	80-120	0			
Barium	0.09533	0.0050	0.1	0	95.3	80-120	0			
Cadmium	0.0948	0.0020	0.1	0	94.8	80-120	0			
Chromium	0.09206	0.0050	0.1	0	92.1	80-120	0			
Lead	0.09616	0.0050	0.1	0	96.2	80-120	0			
Selenium	0.09402	0.0050	0.1	0	94	80-120	0			
Silver	0.1017	0.0050	0.1	0	102	80-120	0			

<b>MS</b>		Sample ID: <b>13041128-05BMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/6/2013 09:41 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130506A</b>				SeqNo: <b>2306730</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09874	0.0050	0.1	-0.0002721	99	75-125	0			
Barium	0.1179	0.0050	0.1	0.02144	96.5	75-125	0			
Cadmium	0.09479	0.0020	0.1	0.00003368	94.8	75-125	0			
Chromium	0.09337	0.0050	0.1	0.0001509	93.2	75-125	0			
Lead	0.09795	0.0050	0.1	0.0002379	97.7	75-125	0			
Selenium	0.09532	0.0050	0.1	0.0007468	94.6	75-125	0			
Silver	0.09985	0.0050	0.1	5.726E-06	99.8	75-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48172** Instrument ID **ICPMS2** Method: **SW6020A**

<b>MSD</b>		Sample ID: <b>13041128-05BMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/6/2013 09:46 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130506A</b>				SeqNo: <b>2306732</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09594	0.0050	0.1	-0.0002721	96.2	75-125	0.09874	2.88	20	
Barium	0.1149	0.0050	0.1	0.02144	93.5	75-125	0.1179	2.58	20	
Cadmium	0.09222	0.0020	0.1	0.00003368	92.2	75-125	0.09479	2.75	20	
Chromium	0.09025	0.0050	0.1	0.0001509	90.1	75-125	0.09337	3.4	20	
Lead	0.09468	0.0050	0.1	0.0002379	94.4	75-125	0.09795	3.4	20	
Selenium	0.09172	0.0050	0.1	0.0007468	91	75-125	0.09532	3.85	20	
Silver	0.09642	0.0050	0.1	5.726E-06	96.4	75-125	0.09985	3.5	20	

The following samples were analyzed in this batch:

1305011-07C 1305011-08C

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



Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R119932A** Instrument ID **ICPMS2** Method: **SW6020A** (Dissolve)

MS Sample ID: 13041107-01DMS				Units: mg/L		Analysis Date: 5/2/2013 01:05 AM				
Client ID:		Run ID: ICPMS2_130501A		SeqNo: 2300827		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1152	0.0050	0.1	-0.0003026	116	75-125	0			
Barium	0.151	0.0050	0.1	0.04321	108	75-125	0			
Cadmium	0.1083	0.0020	0.1	0.0002279	108	75-125	0			
Chromium	0.1072	0.0050	0.1	0.0003539	107	75-125	0			
Lead	0.1108	0.0050	0.1	0.000184	111	75-125	0			
Selenium	0.1259	0.0050	0.1	0.006182	120	75-125	0			
Silver	0.1044	0.0050	0.1	-1.264E-06	104	75-125	0			

MSD Sample ID: 13041107-01DMSD				Units: mg/L		Analysis Date: 5/2/2013 01:26 AM				
Client ID:		Run ID: ICPMS2_130501A		SeqNo: 2300832		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1106	0.0050	0.1	-0.0003026	111	75-125	0.1152	4.07	20	
Barium	0.1467	0.0050	0.1	0.04321	103	75-125	0.151	2.89	20	
Cadmium	0.1041	0.0020	0.1	0.0002279	104	75-125	0.1083	3.95	20	
Chromium	0.1038	0.0050	0.1	0.0003539	103	75-125	0.1072	3.22	20	
Lead	0.1054	0.0050	0.1	0.000184	105	75-125	0.1108	5	20	
Selenium	0.1221	0.0050	0.1	0.006182	116	75-125	0.1259	3.06	20	
Silver	0.1012	0.0050	0.1	-1.264E-06	101	75-125	0.1044	3.11	20	

The following samples were analyzed in this batch: 1305011-07D 1305011-08D

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKW1-48107-48107</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 12:17 PM</b>		
Client ID:		Run ID: <b>SVMS7_130503A</b>				SeqNo: <b>2303318</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachloroethane	U	5.0								
Nitrobenzene	U	5.0								
Pentachlorophenol	U	20								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>34.9</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>69.8</i>	<i>21-125</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>40.65</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>81.3</i>	<i>36-94</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>25.3</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>50.6</i>	<i>10-75</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>53.72</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>107</i>	<i>26-119</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>34.4</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>68.8</i>	<i>41-104</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>12.17</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>24.3</i>	<i>11-50</i>	<i>0</i>			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

MBLK		Sample ID: <b>SBLKW1-48107-48107</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 12:17 PM</b>		
Client ID:		Run ID: <b>SVMS7_130503A</b>				SeqNo: <b>2305840</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	20								
2-Nitrophenol	U	5.0								
3,3'-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitroaniline	U	20								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	10								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>				
Chrysene	U	5.0						
Dibenzo(a,h)anthracene	U	5.0						
Dibenzofuran	U	5.0						
Diethyl phthalate	U	20						
Dimethyl phthalate	U	20						
Di-n-butyl phthalate	U	5.0						
Di-n-octyl phthalate	U	5.0						
Fluoranthene	U	5.0						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	20						
Hexachloroethane	U	5.0						
Indeno(1,2,3-cd)pyrene	U	5.0						
Isophorone	U	5.0						
Naphthalene	U	5.0						
Nitrobenzene	U	5.0						
N-Nitrosodi-n-propylamine	U	5.0						
N-Nitrosodiphenylamine	U	5.0						
Pentachlorophenol	U	20						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>34.9</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>69.8</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>40.65</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>81.3</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>25.3</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>50.6</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>53.72</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>107</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>34.4</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>68.8</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>12.17</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>24.3</i>	<i>13-36</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

MBLK		Sample ID: <b>SBLKW1-48107-48107</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 12:17 PM</b>		
Client ID:		Run ID: <b>SVMS7_130503A</b>				SeqNo: <b>2305846</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	0.10								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	0.10								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	20								
2-Nitrophenol	U	5.0								
3,3'-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitroaniline	U	20								
4-Nitrophenol	U	20								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Acetophenone	U	1.0								
Anthracene	U	0.12								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Benzo(b)fluoranthene	U	0.15								
Benzo(g,h,i)perylene	U	0.20								
Benzo(k)fluoranthene	U	0.15								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	10								

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



Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>	Instrument ID <b>SVMS7</b>	Method: <b>SW8270</b>
Chrysene	U	0.15
Dibenzo(a,h)anthracene	U	0.20
Dibenzofuran	U	5.0
Diethyl phthalate	U	20
Dimethyl phthalate	U	20
Di-n-butyl phthalate	U	5.0
Di-n-octyl phthalate	U	5.0
Fluoranthene	U	0.15
Fluorene	U	0.10
Hexachlorobenzene	U	5.0
Hexachlorobutadiene	U	5.0
Hexachlorocyclopentadiene	U	20
Hexachloroethane	U	5.0
Indeno(1,2,3-cd)pyrene	U	0.20
Isophorone	U	5.0
Naphthalene	U	1.2
Nitrobenzene	U	5.0
N-Nitrosodi-n-propylamine	U	5.0
N-Nitrosodiphenylamine	U	5.0
Pentachlorophenol	U	20
Phenanthrene	U	0.10
Phenol	U	5.0
Pyrene	U	0.20
<i>Surr: 2,4,6-Tribromophenol</i>	34.9	0 50 0 69.8 38-115 0
<i>Surr: 2-Fluorobiphenyl</i>	40.65	0 50 0 81.3 32-100 0
<i>Surr: 2-Fluorophenol</i>	25.3	0 50 0 50.6 22-59 0
<i>Surr: 4-Terphenyl-d14</i>	53.72	0 50 0 107 23-112 0
<i>Surr: Nitrobenzene-d5</i>	34.4	0 50 0 68.8 31-93 0
<i>Surr: Phenol-d6</i>	12.17	0 50 0 24.3 13-36 0

LCS	Sample ID: SLCSW1-48107-48107				Units: µg/L		Analysis Date: 5/3/2013 11:02 AM			
Client ID:			Run ID: SVMS7_130503A		SeqNo: 2303316		Prep Date: 5/2/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	17.4	5.0	20	0	87	50-110		0		
2,4,6-Trichlorophenol	17.03	5.0	20	0	85.2	50-115		0		
2,4-Dinitrotoluene	16.67	5.0	20	0	83.4	50-120		0		
Hexachlorobenzene	17.5	5.0	20	0	87.5	50-110		0		
Hexachloroethane	18.22	5.0	20	0	91.1	30-95		0		
Nitrobenzene	15.45	5.0	20	0	77.2	45-110		0		
Pentachlorophenol	17.02	20	20	0	85.1	40-115		0		J
Surr: 2,4,6-Tribromophenol	41.62	0	50	0	83.2	21-125		0		
Surr: 2-Fluorobiphenyl	39.08	0	50	0	78.2	36-94		0		
Surr: 2-Fluorophenol	24.75	0	50	0	49.5	10-75		0		
Surr: 4-Terphenyl-d14	53.3	0	50	0	107	26-119		0		
Surr: Nitrobenzene-d5	36.1	0	50	0	72.2	41-104		0		
Surr: Phenol-d6	13.67	0	50	0	27.3	11-50		0		

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

LCS		Sample ID: <b>SLCSW1-48107-48107</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 11:02 AM</b>		
Client ID:		Run ID: <b>SVMS7_130503A</b>				SeqNo: <b>2305839</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	17.4	5.0	20	0	87	50-110	0			
2,4,6-Trichlorophenol	17.03	5.0	20	0	85.2	50-115	0			
2,4-Dichlorophenol	14.4	10	20	0	72	50-105	0			
2,4-Dimethylphenol	11.37	5.0	20	0	56.8	30-110	0			
2,4-Dinitrophenol	15.47	5.0	20	0	77.4	15-140	0			
2,4-Dinitrotoluene	16.67	5.0	20	0	83.4	50-120	0			
2,6-Dinitrotoluene	15.9	5.0	20	0	79.5	50-115	0			
2-Chloronaphthalene	16.83	5.0	20	0	84.2	50-105	0			
2-Chlorophenol	15.22	5.0	20	0	76.1	35-105	0			
2-Methylnaphthalene	14.72	5.0	20	0	73.6	45-105	0			
2-Methylphenol	12.27	5.0	20	0	61.4	40-110	0			
2-Nitroaniline	15.02	20	20	0	75.1	50-115	0			J
2-Nitrophenol	14.37	5.0	20	0	71.8	40-115	0			
3-Nitroaniline	13.4	20	20	0	67	20-125	0			J
4,6-Dinitro-2-methylphenol	17.97	20	20	0	89.8	40-130	0			J
4-Bromophenyl phenyl ether	17.86	5.0	20	0	89.3	50-115	0			
4-Chloro-3-methylphenol	13.75	5.0	20	0	68.8	45-110	0			
4-Chloroaniline	13.53	20	20	0	67.6	15-110	0			J
4-Chlorophenyl phenyl ether	14.75	5.0	20	0	73.8	50-110	0			
4-Methylphenol	11.28	5.0	20	0	56.4	30-110	0			
4-Nitroaniline	11.59	20	20	0	58	35-150	0			J
4-Nitrophenol	7.1	20	20	0	35.5	1-58	0			J
Acenaphthene	14.62	5.0	20	0	73.1	45-110	0			
Acenaphthylene	14.96	5.0	20	0	74.8	50-105	0			
Anthracene	15.32	5.0	20	0	76.6	55-110	0			
Benzo(a)anthracene	18.95	5.0	20	0	94.8	55-110	0			
Benzo(a)pyrene	19.97	5.0	20	0	99.8	55-110	0			
Benzo(b)fluoranthene	20.3	5.0	20	0	102	45-120	0			
Benzo(g,h,i)perylene	20.63	5.0	20	0	103	40-125	0			
Benzo(k)fluoranthene	17.08	5.0	20	0	85.4	45-125	0			
Bis(2-chloroethoxy)methane	14.83	5.0	20	0	74.2	45-105	0			
Bis(2-chloroethyl)ether	18.55	5.0	20	0	92.8	35-110	0			
Bis(2-chloroisopropyl)ether	17.32	5.0	20	0	86.6	25-130	0			
Bis(2-ethylhexyl)phthalate	19.9	5.0	20	0	99.5	40-125	0			
Butyl benzyl phthalate	19.21	5.0	20	0	96	45-115	0			
Carbazole	15.98	10	20	0	79.9	50-150	0			
Chrysene	17.45	5.0	20	0	87.2	55-110	0			
Dibenzo(a,h)anthracene	20.95	5.0	20	0	105	40-125	0			
Dibenzofuran	17.41	5.0	20	0	87	55-105	0			
Diethyl phthalate	16.08	20	20	0	80.4	40-120	0			J
Dimethyl phthalate	15.66	20	20	0	78.3	25-125	0			J
Di-n-butyl phthalate	16.63	5.0	20	0	83.2	55-115	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>				
Di-n-octyl phthalate	24.18	5.0	20	0	121	35-135	0	
Fluoranthene	16.4	5.0	20	0	82	55-115	0	
Fluorene	14.75	5.0	20	0	73.8	50-110	0	
Hexachlorobenzene	17.5	5.0	20	0	87.5	50-110	0	
Hexachlorobutadiene	16.9	5.0	20	0	84.5	25-105	0	
Hexachlorocyclopentadiene	13.1	20	20	0	65.5	25-105	0	J
Hexachloroethane	18.22	5.0	20	0	91.1	30-95	0	
Indeno(1,2,3-cd)pyrene	22.48	5.0	20	0	112	45-125	0	
Isophorone	15.75	5.0	20	0	78.8	50-110	0	
Naphthalene	16.55	5.0	20	0	82.8	40-100	0	
Nitrobenzene	15.45	5.0	20	0	77.2	45-110	0	
N-Nitrosodi-n-propylamine	16.84	5.0	20	0	84.2	35-130	0	
N-Nitrosodiphenylamine	17.37	5.0	20	0	86.8	50-110	0	
Pentachlorophenol	17.02	20	20	0	85.1	40-115	0	J
Phenanthrene	16.88	5.0	20	0	84.4	50-115	0	
Phenol	5.67	5.0	20	0	28.4	12-43	0	
Pyrene	21.29	5.0	20	0	106	50-130	0	
Surr: 2,4,6-Tribromophenol	41.62	0	50	0	83.2	38-115	0	
Surr: 2-Fluorobiphenyl	39.08	0	50	0	78.2	32-100	0	
Surr: 2-Fluorophenol	24.75	0	50	0	49.5	22-59	0	
Surr: 4-Terphenyl-d14	53.3	0	50	0	107	23-112	0	
Surr: Nitrobenzene-d5	36.1	0	50	0	72.2	31-93	0	
Surr: Phenol-d6	13.67	0	50	0	27.3	13-36	0	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

# QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

LCS Sample ID: <b>SLCSW1-48107-48107</b>				Units: <b>µg/L</b>			Analysis Date: <b>5/3/2013 11:02 AM</b>			
Client ID:		Run ID: <b>SVMS7_130503A</b>		SeqNo: <b>2305845</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	17.4	5.0	20	0	87	50-110	0			
2,4,6-Trichlorophenol	17.03	5.0	20	0	85.2	50-115	0			
2,4-Dichlorophenol	14.4	10	20	0	72	50-105	0			
2,4-Dimethylphenol	11.37	5.0	20	0	56.8	30-110	0			
2,4-Dinitrophenol	15.47	5.0	20	0	77.4	15-140	0			
2,4-Dinitrotoluene	16.67	5.0	20	0	83.4	50-120	0			
2,6-Dinitrotoluene	15.9	5.0	20	0	79.5	50-115	0			
2-Chloronaphthalene	16.83	0.10	20	0	84.2	50-105	0			
2-Chlorophenol	15.22	5.0	20	0	76.1	35-105	0			
2-Methylnaphthalene	14.72	0.10	20	0	73.6	45-105	0			
2-Methylphenol	12.27	5.0	20	0	61.4	40-110	0			
2-Nitroaniline	15.02	20	20	0	75.1	50-115	0			J
2-Nitrophenol	14.37	5.0	20	0	71.8	40-115	0			
3-Nitroaniline	13.4	20	20	0	67	20-125	0			J
4,6-Dinitro-2-methylphenol	17.97	20	20	0	89.8	40-130	0			J
4-Bromophenyl phenyl ether	17.86	5.0	20	0	89.3	50-115	0			
4-Chloro-3-methylphenol	13.75	5.0	20	0	68.8	45-110	0			
4-Chloroaniline	13.53	20	20	0	67.6	15-110	0			J
4-Chlorophenyl phenyl ether	14.75	5.0	20	0	73.8	50-110	0			
4-Methylphenol	11.28	5.0	20	0	56.4	30-110	0			
4-Nitroaniline	11.59	20	20	0	58	35-150	0			J
4-Nitrophenol	7.1	20	20	0	35.5	1-58	0			J
Acenaphthene	14.62	0.10	20	0	73.1	45-110	0			
Acenaphthylene	14.96	0.10	20	0	74.8	50-105	0			
Anthracene	15.32	0.12	20	0	76.6	55-110	0			
Benzo(a)anthracene	18.95	0.10	20	0	94.8	55-110	0			
Benzo(a)pyrene	19.97	0.10	20	0	99.8	55-110	0			
Benzo(b)fluoranthene	20.3	0.15	20	0	102	45-120	0			
Benzo(g,h,i)perylene	20.63	0.20	20	0	103	40-125	0			
Benzo(k)fluoranthene	17.08	0.15	20	0	85.4	45-125	0			
Bis(2-chloroethoxy)methane	14.83	5.0	20	0	74.2	45-105	0			
Bis(2-chloroethyl)ether	18.55	5.0	20	0	92.8	35-110	0			
Bis(2-chloroisopropyl)ether	17.32	5.0	20	0	86.6	25-130	0			
Bis(2-ethylhexyl)phthalate	19.9	5.0	20	0	99.5	40-125	0			
Butyl benzyl phthalate	19.21	5.0	20	0	96	45-115	0			
Carbazole	15.98	10	20	0	79.9	50-150	0			
Chrysene	17.45	0.15	20	0	87.2	55-110	0			
Dibenzo(a,h)anthracene	20.95	0.20	20	0	105	40-125	0			
Dibenzofuran	17.41	5.0	20	0	87	55-105	0			
Diethyl phthalate	16.08	20	20	0	80.4	40-120	0			J
Dimethyl phthalate	15.66	20	20	0	78.3	25-125	0			J
Di-n-butyl phthalate	16.63	5.0	20	0	83.2	55-115	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>	Instrument ID <b>SVMS7</b>	Method: <b>SW8270</b>					
Di-n-octyl phthalate	24.18	5.0	20	0	121	35-135	0
Fluoranthene	16.4	0.15	20	0	82	55-115	0
Fluorene	14.75	0.10	20	0	73.8	50-110	0
Hexachlorobenzene	17.5	5.0	20	0	87.5	50-110	0
Hexachlorobutadiene	16.9	5.0	20	0	84.5	25-105	0
Hexachlorocyclopentadiene	13.1	20	20	0	65.5	25-105	0 J
Hexachloroethane	18.22	5.0	20	0	91.1	30-95	0
Indeno(1,2,3-cd)pyrene	22.48	0.20	20	0	112	45-125	0
Isophorone	15.75	5.0	20	0	78.8	50-110	0
Naphthalene	16.55	1.2	20	0	82.8	40-100	0
Nitrobenzene	15.45	5.0	20	0	77.2	45-110	0
N-Nitrosodi-n-propylamine	16.84	5.0	20	0	84.2	35-130	0
N-Nitrosodiphenylamine	17.37	5.0	20	0	86.8	50-110	0
Pentachlorophenol	17.02	20	20	0	85.1	40-115	0 J
Phenanthrene	16.88	0.10	20	0	84.4	50-115	0
Phenol	5.67	5.0	20	0	28.4	12-43	0
Pyrene	21.29	0.20	20	0	106	50-130	0
Surr: 2,4,6-Tribromophenol	41.62	0	50	0	83.2	38-115	0
Surr: 2-Fluorobiphenyl	39.08	0	50	0	78.2	32-100	0
Surr: 2-Fluorophenol	24.75	0	50	0	49.5	22-59	0
Surr: 4-Terphenyl-d14	53.3	0	50	0	107	23-112	0
Surr: Nitrobenzene-d5	36.1	0	50	0	72.2	31-93	0
Surr: Phenol-d6	13.67	0	50	0	27.3	13-36	0

<b>MS</b>		Sample ID: <b>1305011-07B MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 01:00 PM</b>			
Client ID: <b>LCBP-WA-FB</b>		Run ID: <b>SVMS7_130503A</b>			SeqNo: <b>2305834</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	181.9	50	200	0	91	50-110	0			
2,4,6-Trichlorophenol	172.8	50	200	0	86.4	50-115	0			
2,4-Dinitrotoluene	168.2	50	200	0	84.1	50-120	0			
Hexachlorobenzene	179	50	200	0	89.5	50-110	0			
Hexachloroethane	177.8	50	200	0	88.9	30-95	0			
Nitrobenzene	151.8	50	200	0	75.9	45-110	0			
Pentachlorophenol	164.1	200	200	0	82	40-115	0			J
Surr: 2,4,6-Tribromophenol	412.9	0	500	0	82.6	21-125	0			
Surr: 2-Fluorobiphenyl	396.5	0	500	0	79.3	36-94	0			
Surr: 2-Fluorophenol	244.7	0	500	0	48.9	10-75	0			
Surr: 4-Terphenyl-d14	521.5	0	500	0	104	26-119	0			
Surr: Nitrobenzene-d5	343	0	500	0	68.6	41-104	0			
Surr: Phenol-d6	129	0	500	0	25.8	11-50	0			

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

# QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

MS				Sample ID: <b>1305011-07B MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 01:00 PM</b>	
Client ID: <b>LCBP-WA-FB</b>				Run ID: <b>SVMS7_130503A</b>			SeqNo: <b>2305841</b>		Prep Date: <b>5/2/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	181.9	50	200	0	91	50-110	0			
2,4,6-Trichlorophenol	172.8	50	200	0	86.4	50-115	0			
2,4-Dichlorophenol	141.6	100	200	0	70.8	50-105	0			
2,4-Dimethylphenol	119.7	50	200	0	59.8	30-110	0			
2,4-Dinitrophenol	148.9	50	200	0	74.4	15-140	0			
2,4-Dinitrotoluene	168.2	50	200	0	84.1	50-120	0			
2,6-Dinitrotoluene	161.7	50	200	0	80.8	50-115	0			
2-Chloronaphthalene	176.9	50	200	0	88.4	50-105	0			
2-Chlorophenol	155.7	50	200	0	77.8	35-105	0			
2-Methylnaphthalene	147.3	50	200	0	73.6	45-105	0			
2-Methylphenol	133	50	200	0	66.5	40-110	0			
2-Nitroaniline	152.9	200	200	0	76.4	50-115	0			J
2-Nitrophenol	141.5	50	200	0	70.8	40-115	0			
3-Nitroaniline	144.2	200	200	0	72.1	20-125	0			J
4,6-Dinitro-2-methylphenol	170.2	200	200	0	85.1	40-130	0			J
4-Bromophenyl phenyl ether	182.4	50	200	0	91.2	50-115	0			
4-Chloro-3-methylphenol	138.9	50	200	0	69.4	45-110	0			
4-Chloroaniline	142.7	200	200	0	71.4	15-110	0			J
4-Chlorophenyl phenyl ether	151.1	50	200	0	75.6	50-110	0			
4-Methylphenol	117.1	50	200	0	58.6	30-110	0			
4-Nitroaniline	128.9	200	200	0	64.4	35-150	0			J
4-Nitrophenol	69.1	200	200	0	34.6	1-58	0			J
Acenaphthene	150.2	50	200	0	75.1	45-110	0			
Acenaphthylene	153.3	50	200	0	76.6	50-105	0			
Anthracene	153.5	50	200	0	76.8	55-110	0			
Benzo(a)anthracene	185.9	50	200	0	93	55-110	0			
Benzo(a)pyrene	191	50	200	0	95.5	55-110	0			
Benzo(b)fluoranthene	193.8	50	200	0	96.9	45-120	0			
Benzo(g,h,i)perylene	204.1	50	200	0	102	40-125	0			
Benzo(k)fluoranthene	166.8	50	200	0	83.4	45-125	0			
Bis(2-chloroethoxy)methane	148.1	50	200	0	74	45-105	0			
Bis(2-chloroethyl)ether	185.8	50	200	0	92.9	35-110	0			
Bis(2-chloroisopropyl)ether	175.7	50	200	0	87.8	25-130	0			
Bis(2-ethylhexyl)phthalate	189.1	50	200	0	94.6	40-125	0			
Butyl benzyl phthalate	186.8	50	200	0	93.4	45-115	0			
Carbazole	162.6	100	200	0	81.3	50-150	0			
Chrysene	174.1	50	200	0	87	55-110	0			
Dibenzo(a,h)anthracene	206	50	200	0	103	40-125	0			
Dibenzofuran	179.3	50	200	0	89.6	55-105	0			
Diethyl phthalate	165	200	200	0	82.5	40-120	0			J
Dimethyl phthalate	165	200	200	0	82.5	25-125	0			J
Di-n-butyl phthalate	164.3	50	200	1.83	81.2	55-115	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>			
Di-n-octyl phthalate	217.1	50	200	0	109	35-135	0
Fluoranthene	165	50	200	0	82.5	55-115	0
Fluorene	151.4	50	200	0	75.7	50-110	0
Hexachlorobenzene	179	50	200	0	89.5	50-110	0
Hexachlorobutadiene	165	50	200	0	82.5	25-105	0
Hexachlorocyclopentadiene	136.2	200	200	0	68.1	25-105	0
Hexachloroethane	177.8	50	200	0	88.9	30-95	0
Indeno(1,2,3-cd)pyrene	220.2	50	200	0	110	45-125	0
Isophorone	155.3	50	200	0	77.6	50-110	0
Naphthalene	167.5	50	200	0	83.8	40-100	0
Nitrobenzene	151.8	50	200	0	75.9	45-110	0
N-Nitrosodi-n-propylamine	168.4	50	200	0	84.2	35-130	0
N-Nitrosodiphenylamine	175.8	50	200	0	87.9	50-110	0
Pentachlorophenol	164.1	200	200	0	82	40-115	0
Phenanthrene	173.5	50	200	0	86.8	50-115	0
Phenol	54.9	50	200	0	27.4	12-43	0
Pyrene	210.4	50	200	0	105	50-130	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>412.9</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>82.6</i>	<i>38-115</i>	<i>0</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>396.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>79.3</i>	<i>32-100</i>	<i>0</i>
<i>Surr: 2-Fluorophenol</i>	<i>244.7</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>48.9</i>	<i>22-59</i>	<i>0</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>521.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>104</i>	<i>23-112</i>	<i>0</i>
<i>Surr: Nitrobenzene-d5</i>	<i>343</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>68.6</i>	<i>31-93</i>	<i>0</i>
<i>Surr: Phenol-d6</i>	<i>129</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>25.8</i>	<i>13-36</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48107**      Instrument ID **SVMS7**      Method: **SW8270**

MS				Sample ID: <b>1305011-07B MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 01:00 PM</b>	
Client ID: <b>LCBP-WA-FB</b>				Run ID: <b>SVMS7_130503A</b>			SeqNo: <b>2305847</b>		Prep Date: <b>5/2/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	181.9	50	200	0	91	50-110	0			
2,4,6-Trichlorophenol	172.8	50	200	0	86.4	50-115	0			
2,4-Dichlorophenol	141.6	100	200	0	70.8	50-105	0			
2,4-Dimethylphenol	119.7	50	200	0	59.8	30-110	0			
2,4-Dinitrophenol	148.9	50	200	0	74.4	15-140	0			
2,4-Dinitrotoluene	168.2	50	200	0	84.1	50-120	0			
2,6-Dinitrotoluene	161.7	50	200	0	80.8	50-115	0			
2-Chloronaphthalene	176.9	1.0	200	0	88.4	50-105	0			
2-Chlorophenol	155.7	50	200	0	77.8	35-105	0			
2-Methylnaphthalene	147.3	1.0	200	0	73.6	45-105	0			
2-Methylphenol	133	50	200	0	66.5	40-110	0			
2-Nitroaniline	152.9	200	200	0	76.4	50-115	0			J
2-Nitrophenol	141.5	50	200	0	70.8	40-115	0			
3-Nitroaniline	144.2	200	200	0	72.1	20-125	0			J
4,6-Dinitro-2-methylphenol	170.2	200	200	0	85.1	40-130	0			J
4-Bromophenyl phenyl ether	182.4	50	200	0	91.2	50-115	0			
4-Chloro-3-methylphenol	138.9	50	200	0	69.4	45-110	0			
4-Chloroaniline	142.7	200	200	0	71.4	15-110	0			J
4-Chlorophenyl phenyl ether	151.1	50	200	0	75.6	50-110	0			
4-Methylphenol	117.1	50	200	0	58.6	30-110	0			
4-Nitroaniline	128.9	200	200	0	64.4	35-150	0			J
4-Nitrophenol	69.1	200	200	0	34.6	1-58	0			J
Acenaphthene	150.2	1.0	200	0	75.1	45-110	0			
Acenaphthylene	153.3	1.0	200	0	76.6	50-105	0			
Anthracene	153.5	1.2	200	0	76.8	55-110	0			
Benzo(a)anthracene	185.9	1.0	200	0	93	55-110	0			
Benzo(a)pyrene	191	1.0	200	0	95.5	55-110	0			
Benzo(b)fluoranthene	193.8	1.5	200	0	96.9	45-120	0			
Benzo(g,h,i)perylene	204.1	2.0	200	0	102	40-125	0			
Benzo(k)fluoranthene	166.8	1.5	200	0	83.4	45-125	0			
Bis(2-chloroethoxy)methane	148.1	50	200	0	74	45-105	0			
Bis(2-chloroethyl)ether	185.8	50	200	0	92.9	35-110	0			
Bis(2-chloroisopropyl)ether	175.7	50	200	0	87.8	25-130	0			
Bis(2-ethylhexyl)phthalate	189.1	50	200	0	94.6	40-125	0			
Butyl benzyl phthalate	186.8	50	200	0	93.4	45-115	0			
Carbazole	162.6	100	200	0	81.3	50-150	0			
Chrysene	174.1	1.5	200	0	87	55-110	0			
Dibenzo(a,h)anthracene	206	2.0	200	0	103	40-125	0			
Dibenzofuran	179.3	50	200	0	89.6	55-105	0			
Diethyl phthalate	165	200	200	0	82.5	40-120	0			J
Dimethyl phthalate	165	200	200	0	82.5	25-125	0			J
Di-n-butyl phthalate	164.3	50	200	1.83	81.2	55-115	0			

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>	Instrument ID <b>SVMS7</b>	Method: <b>SW8270</b>					
Di-n-octyl phthalate	217.1	50	200	0	109	35-135	0
Fluoranthene	165	1.5	200	0	82.5	55-115	0
Fluorene	151.4	1.0	200	0	75.7	50-110	0
Hexachlorobenzene	179	50	200	0	89.5	50-110	0
Hexachlorobutadiene	165	50	200	0	82.5	25-105	0
Hexachlorocyclopentadiene	136.2	200	200	0	68.1	25-105	0 J
Hexachloroethane	177.8	50	200	0	88.9	30-95	0
Indeno(1,2,3-cd)pyrene	220.2	2.0	200	0	110	45-125	0
Isophorone	155.3	50	200	0	77.6	50-110	0
Naphthalene	167.5	12	200	0	83.8	40-100	0
Nitrobenzene	151.8	50	200	0	75.9	45-110	0
N-Nitrosodi-n-propylamine	168.4	50	200	0	84.2	35-130	0
N-Nitrosodiphenylamine	175.8	50	200	0	87.9	50-110	0
Pentachlorophenol	164.1	200	200	0	82	40-115	0 J
Phenanthrene	173.5	1.0	200	0	86.8	50-115	0
Phenol	54.9	50	200	0	27.4	12-43	0
Pyrene	210.4	2.0	200	0	105	50-130	0
Surr: 2,4,6-Tribromophenol	412.9	0	500	0	82.6	38-115	0
Surr: 2-Fluorobiphenyl	396.5	0	500	0	79.3	32-100	0
Surr: 2-Fluorophenol	244.7	0	500	0	48.9	22-59	0
Surr: 4-Terphenyl-d14	521.5	0	500	0	104	23-112	0
Surr: Nitrobenzene-d5	343	0	500	0	68.6	31-93	0
Surr: Phenol-d6	129	0	500	0	25.8	13-36	0

MSD				Sample ID: 1305011-07B MSD			Units: µg/L		Analysis Date: 5/3/2013 01:21 PM		
Client ID: LCBP-WA-FB			Run ID: SVMS7_130503A			SeqNo: 2305835		Prep Date: 5/2/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2,4,5-Trichlorophenol	175.6	50	200	0	87.8	50-110	181.9	3.52	30		
2,4,6-Trichlorophenol	166.3	50	200	0	83.2	50-115	172.8	3.83	30		
2,4-Dinitrotoluene	164.9	50	200	0	82.4	50-120	168.2	1.98	30		
Hexachlorobenzene	171.7	50	200	0	85.8	50-110	179	4.16	30		
Hexachloroethane	160.9	50	200	0	80.4	30-95	177.8	9.98	30		
Nitrobenzene	142.2	50	200	0	71.1	45-110	151.8	6.53	30		
Pentachlorophenol	163.7	200	200	0	81.8	40-115	164.1	0	30	J	
Surr: 2,4,6-Tribromophenol	394.8	0	500	0	79	21-125	412.9	4.48	0		
Surr: 2-Fluorobiphenyl	370.2	0	500	0	74	36-94	396.5	6.86	0		
Surr: 2-Fluorophenol	211.9	0	500	0	42.4	10-75	244.7	14.4	0		
Surr: 4-Terphenyl-d14	486.4	0	500	0	97.3	26-119	521.5	6.96	0		
Surr: Nitrobenzene-d5	323.8	0	500	0	64.8	41-104	343	5.76	0		
Surr: Phenol-d6	108.3	0	500	0	21.7	11-50	129	17.4	0		

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: 48107 Instrument ID SVMS7 Method: SW8270

MSD Sample ID: 1305011-07B MSD				Units: µg/L			Analysis Date: 5/3/2013 01:21 PM			
Client ID: LCBP-WA-FB		Run ID: SVMS7_130503A		SeqNo: 2305842		Prep Date: 5/2/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	175.6	50	200	0	87.8	50-110	181.9	3.52	30	
2,4,6-Trichlorophenol	166.3	50	200	0	83.2	50-115	172.8	3.83	30	
2,4-Dichlorophenol	132.1	100	200	0	66	50-105	141.6	6.94	30	
2,4-Dimethylphenol	122.2	50	200	0	61.1	30-110	119.7	2.07	30	
2,4-Dinitrophenol	147.6	50	200	0	73.8	15-140	148.9	0.877	30	
2,4-Dinitrotoluene	164.9	50	200	0	82.4	50-120	168.2	1.98	30	
2,6-Dinitrotoluene	160.7	50	200	0	80.4	50-115	161.7	0.62	30	
2-Chloronaphthalene	169.5	50	200	0	84.8	50-105	176.9	4.27	30	
2-Chlorophenol	140.6	50	200	0	70.3	35-105	155.7	10.2	30	
2-Methylnaphthalene	141.8	50	200	0	70.9	45-105	147.3	3.8	30	
2-Methylphenol	119.6	50	200	0	59.8	40-110	133	10.6	30	
2-Nitroaniline	148	200	200	0	74	50-115	152.9	0	30	J
2-Nitrophenol	130.5	50	200	0	65.2	40-115	141.5	8.09	30	
3-Nitroaniline	120.9	200	200	0	60.4	20-125	144.2	0	30	J
4,6-Dinitro-2-methylphenol	166.8	200	200	0	83.4	40-130	170.2	0	30	J
4-Bromophenyl phenyl ether	175.2	50	200	0	87.6	50-115	182.4	4.03	30	
4-Chloro-3-methylphenol	132.2	50	200	0	66.1	45-110	138.9	4.94	30	
4-Chloroaniline	117.4	200	200	0	58.7	15-110	142.7	0	30	J
4-Chlorophenyl phenyl ether	141.4	50	200	0	70.7	50-110	151.1	6.63	30	
4-Methylphenol	105.2	50	200	0	52.6	30-110	117.1	10.7	30	
4-Nitroaniline	113.5	200	200	0	56.8	35-150	128.9	0	30	J
4-Nitrophenol	65.7	200	200	0	32.8	1-58	69.1	0	0	J
Acenaphthene	142.1	50	200	0	71	45-110	150.2	5.54	30	
Acenaphthylene	147.1	50	200	0	73.6	50-105	153.3	4.13	30	
Anthracene	151.5	50	200	0	75.8	55-110	153.5	1.31	30	
Benzo(a)anthracene	189.1	50	200	0	94.6	55-110	185.9	1.71	30	
Benzo(a)pyrene	194	50	200	0	97	55-110	191	1.56	30	
Benzo(b)fluoranthene	194.4	50	200	0	97.2	45-120	193.8	0.309	30	
Benzo(g,h,i)perylene	207.7	50	200	0	104	40-125	204.1	1.75	30	
Benzo(k)fluoranthene	166.3	50	200	0	83.2	45-125	166.8	0.3	30	
Bis(2-chloroethoxy)methane	137.4	50	200	0	68.7	45-105	148.1	7.5	30	
Bis(2-chloroethyl)ether	175.9	50	200	0	88	35-110	185.8	5.47	30	
Bis(2-chloroisopropyl)ether	163.7	50	200	0	81.8	25-130	175.7	7.07	30	
Bis(2-ethylhexyl)phthalate	446.6	50	200	0	223	40-125	189.1	81	30	SR
Butyl benzyl phthalate	194.4	50	200	0	97.2	45-115	186.8	3.99	30	
Carbazole	162.9	100	200	0	81.4	50-150	162.6	0.184	30	
Chrysene	173	50	200	0	86.5	55-110	174.1	0.634	30	
Dibenzo(a,h)anthracene	206.9	50	200	0	103	40-125	206	0.436	30	
Dibenzofuran	169	50	200	0	84.5	55-105	179.3	5.91	30	
Diethyl phthalate	160.2	200	200	0	80.1	40-120	165	0	30	J
Dimethyl phthalate	156.8	200	200	0	78.4	25-125	165	0	30	J
Di-n-butyl phthalate	167.3	50	200	1.83	82.7	55-115	164.3	1.81	30	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>					
Di-n-octyl phthalate	226.3	50	200	0	113	35-135	217.1	4.15	30
Fluoranthene	169.8	50	200	0	84.9	55-115	165	2.87	30
Fluorene	143.2	50	200	0	71.6	50-110	151.4	5.57	30
Hexachlorobenzene	171.7	50	200	0	85.8	50-110	179	4.16	30
Hexachlorobutadiene	156.5	50	200	0	78.2	25-105	165	5.29	30
Hexachlorocyclopentadiene	129.7	200	200	0	64.8	25-105	136.2	0	30 J
Hexachloroethane	160.9	50	200	0	80.4	30-95	177.8	9.98	30
Indeno(1,2,3-cd)pyrene	223.9	50	200	0	112	45-125	220.2	1.67	30
Isophorone	146.7	50	200	0	73.4	50-110	155.3	5.7	30
Naphthalene	155.2	50	200	0	77.6	40-100	167.5	7.62	30
Nitrobenzene	142.2	50	200	0	71.1	45-110	151.8	6.53	30
N-Nitrosodi-n-propylamine	159.7	50	200	0	79.8	35-130	168.4	5.3	30
N-Nitrosodiphenylamine	169.3	50	200	0	84.6	50-110	175.8	3.77	30
Pentachlorophenol	163.7	200	200	0	81.8	40-115	164.1	0	30 J
Phenanthrene	168.8	50	200	0	84.4	50-115	173.5	2.75	30
Phenol	47.4	50	200	0	23.7	12-43	54.9	0	30 J
Pyrene	202.8	50	200	0	101	50-130	210.4	3.68	30
Surr: 2,4,6-Tribromophenol	394.8	0	500	0	79	38-115	412.9	4.48	40
Surr: 2-Fluorobiphenyl	370.2	0	500	0	74	32-100	396.5	6.86	40
Surr: 2-Fluorophenol	211.9	0	500	0	42.4	22-59	244.7	14.4	40
Surr: 4-Terphenyl-d14	486.4	0	500	0	97.3	23-112	521.5	6.96	40
Surr: Nitrobenzene-d5	323.8	0	500	0	64.8	31-93	343	5.76	40
Surr: Phenol-d6	108.3	0	500	0	21.7	13-36	129	17.4	40

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



Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48107** Instrument ID **SVMS7** Method: **SW8270**

MSD Sample ID: <b>1305011-07B MSD</b>				Units: <b>µg/L</b>			Analysis Date: <b>5/3/2013 01:21 PM</b>			
Client ID: <b>LCBP-WA-FB</b>		Run ID: <b>SVMS7_130503A</b>		SeqNo: <b>2305848</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	175.6	50	200	0	87.8	50-110	181.9	3.52	30	
2,4,6-Trichlorophenol	166.3	50	200	0	83.2	50-115	172.8	3.83	30	
2,4-Dichlorophenol	132.1	100	200	0	66	50-105	141.6	6.94	30	
2,4-Dimethylphenol	122.2	50	200	0	61.1	30-110	119.7	2.07	30	
2,4-Dinitrophenol	147.6	50	200	0	73.8	15-140	148.9	0.877	30	
2,4-Dinitrotoluene	164.9	50	200	0	82.4	50-120	168.2	1.98	30	
2,6-Dinitrotoluene	160.7	50	200	0	80.4	50-115	161.7	0.62	30	
2-Chloronaphthalene	169.5	1.0	200	0	84.8	50-105	176.9	4.27	30	
2-Chlorophenol	140.6	50	200	0	70.3	35-105	155.7	10.2	30	
2-Methylnaphthalene	141.8	1.0	200	0	70.9	45-105	147.3	3.8	30	
2-Methylphenol	119.6	50	200	0	59.8	40-110	133	10.6	30	
2-Nitroaniline	148	200	200	0	74	50-115	152.9	0	30	J
2-Nitrophenol	130.5	50	200	0	65.2	40-115	141.5	8.09	30	
3-Nitroaniline	120.9	200	200	0	60.4	20-125	144.2	0	30	J
4,6-Dinitro-2-methylphenol	166.8	200	200	0	83.4	40-130	170.2	0	30	J
4-Bromophenyl phenyl ether	175.2	50	200	0	87.6	50-115	182.4	4.03	30	
4-Chloro-3-methylphenol	132.2	50	200	0	66.1	45-110	138.9	4.94	30	
4-Chloroaniline	117.4	200	200	0	58.7	15-110	142.7	0	30	J
4-Chlorophenyl phenyl ether	141.4	50	200	0	70.7	50-110	151.1	6.63	30	
4-Methylphenol	105.2	50	200	0	52.6	30-110	117.1	10.7	30	
4-Nitroaniline	113.5	200	200	0	56.8	35-150	128.9	0	30	J
4-Nitrophenol	65.7	200	200	0	32.8	1-58	69.1	0	0	J
Acenaphthene	142.1	1.0	200	0	71	45-110	150.2	5.54	30	
Acenaphthylene	147.1	1.0	200	0	73.6	50-105	153.3	4.13	30	
Anthracene	151.5	1.2	200	0	75.8	55-110	153.5	1.31	30	
Benzo(a)anthracene	189.1	1.0	200	0	94.6	55-110	185.9	1.71	30	
Benzo(a)pyrene	194	1.0	200	0	97	55-110	191	1.56	30	
Benzo(b)fluoranthene	194.4	1.5	200	0	97.2	45-120	193.8	0.309	30	
Benzo(g,h,i)perylene	207.7	2.0	200	0	104	40-125	204.1	1.75	30	
Benzo(k)fluoranthene	166.3	1.5	200	0	83.2	45-125	166.8	0.3	30	
Bis(2-chloroethoxy)methane	137.4	50	200	0	68.7	45-105	148.1	7.5	30	
Bis(2-chloroethyl)ether	175.9	50	200	0	88	35-110	185.8	5.47	30	
Bis(2-chloroisopropyl)ether	163.7	50	200	0	81.8	25-130	175.7	7.07	30	
Bis(2-ethylhexyl)phthalate	446.6	50	200	0	223	40-125	189.1	81	30	SR
Butyl benzyl phthalate	194.4	50	200	0	97.2	45-115	186.8	3.99	30	
Carbazole	162.9	100	200	0	81.4	50-150	162.6	0.184	30	
Chrysene	173	1.5	200	0	86.5	55-110	174.1	0.634	30	
Dibenzo(a,h)anthracene	206.9	2.0	200	0	103	40-125	206	0.436	30	
Dibenzofuran	169	50	200	0	84.5	55-105	179.3	5.91	30	
Diethyl phthalate	160.2	200	200	0	80.1	40-120	165	0	30	J
Dimethyl phthalate	156.8	200	200	0	78.4	25-125	165	0	30	J
Di-n-butyl phthalate	167.3	50	200	1.83	82.7	55-115	164.3	1.81	30	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48107</b>	Instrument ID <b>SVMS7</b>			Method: <b>SW8270</b>					
Di-n-octyl phthalate	226.3	50	200	0	113	35-135	217.1	4.15	30
Fluoranthene	169.8	1.5	200	0	84.9	55-115	165	2.87	30
Fluorene	143.2	1.0	200	0	71.6	50-110	151.4	5.57	30
Hexachlorobenzene	171.7	50	200	0	85.8	50-110	179	4.16	30
Hexachlorobutadiene	156.5	50	200	0	78.2	25-105	165	5.29	30
Hexachlorocyclopentadiene	129.7	200	200	0	64.8	25-105	136.2	0	30 J
Hexachloroethane	160.9	50	200	0	80.4	30-95	177.8	9.98	30
Indeno(1,2,3-cd)pyrene	223.9	2.0	200	0	112	45-125	220.2	1.67	30
Isophorone	146.7	50	200	0	73.4	50-110	155.3	5.7	30
Naphthalene	155.2	12	200	0	77.6	40-100	167.5	7.62	30
Nitrobenzene	142.2	50	200	0	71.1	45-110	151.8	6.53	30
N-Nitrosodi-n-propylamine	159.7	50	200	0	79.8	35-130	168.4	5.3	30
N-Nitrosodiphenylamine	169.3	50	200	0	84.6	50-110	175.8	3.77	30
Pentachlorophenol	163.7	200	200	0	81.8	40-115	164.1	0	30 J
Phenanthrene	168.8	1.0	200	0	84.4	50-115	173.5	2.75	30
Phenol	47.4	50	200	0	23.7	12-43	54.9	0	30 J
Pyrene	202.8	2.0	200	0	101	50-130	210.4	3.68	30
<i>Surr: 2,4,6-Tribromophenol</i>	394.8	0	500	0	79	38-115	412.9	4.48	40
<i>Surr: 2-Fluorobiphenyl</i>	370.2	0	500	0	74	32-100	396.5	6.86	40
<i>Surr: 2-Fluorophenol</i>	211.9	0	500	0	42.4	22-59	244.7	14.4	40
<i>Surr: 4-Terphenyl-d14</i>	486.4	0	500	0	97.3	23-112	521.5	6.96	40
<i>Surr: Nitrobenzene-d5</i>	323.8	0	500	0	64.8	31-93	343	5.76	40
<i>Surr: Phenol-d6</i>	108.3	0	500	0	21.7	13-36	129	17.4	40

The following samples were analyzed in this batch:

1305011-07B	1305011-08B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48108** Instrument ID **SVMS5** Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>DBLKW1-48108-48108</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/8/2013 12:05 PM</b>		
Client ID:		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310797</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	0.10								
ORO (C21-C35)	U	0.10								
<i>Surr: 4-Terphenyl-d14</i>	<i>0.05209</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>23-112</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>DLC SW1-48108-48108</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/8/2013 03:47 PM</b>		
Client ID:		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310800</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	2.343	0.10	5	0	46.9	44-116	0			
ORO (C21-C35)	2.929	0.10	5	0	58.6	44-116	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.04175</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>83.5</i>	<i>23-112</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>1305011-07B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/8/2013 04:07 PM</b>		
Client ID: <b>LCBP-WA-FB</b>		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310801</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	24.05	1.0	50	0	48.1	44-116	0			
ORO (C21-C35)	33.47	1.0	50	0	66.9	44-116	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.4192</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>83.8</i>	<i>23-112</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>1305011-07B MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/8/2013 04:27 PM</b>		
Client ID: <b>LCBP-WA-FB</b>		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310802</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	23.73	1.0	50	0	47.5	44-116	24.05	1.33	30	
ORO (C21-C35)	35.54	1.0	50	0	71.1	44-116	33.47	6	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.4245</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>84.9</i>	<i>23-112</i>	<i>0.4192</i>	<i>1.26</i>	<i>30</i>	

The following samples were analyzed in this batch:

1305011-07B 1305011-08B

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48185**      Instrument ID **SVMS6**      Method: **SW8270**

MBLK		Sample ID: <b>SBLKS1-48185-48185</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/8/2013 02:29 PM</b>		
Client ID:		Run ID: <b>SVMS6_130508A</b>				SeqNo: <b>2311012</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	330								
2,4,5-Trichlorophenol	U	160								
2,4,6-Trichlorophenol	U	160								
2,4-Dichlorophenol	U	160								
2,4-Dimethylphenol	U	330								
2,4-Dinitrophenol	U	660								
2,4-Dinitrotoluene	U	160								
2,6-Dinitrotoluene	U	160								
2-Chloronaphthalene	U	80								
2-Chlorophenol	U	160								
2-Methylnaphthalene	U	80								
2-Methylphenol	U	160								
2-Nitroaniline	U	660								
2-Nitrophenol	U	160								
3,3'-Dichlorobenzidine	U	660								
3-Nitroaniline	U	660								
4,6-Dinitro-2-methylphenol	U	330								
4-Bromophenyl phenyl ether	U	160								
4-Chloro-3-methylphenol	U	160								
4-Chloroaniline	U	660								
4-Chlorophenyl phenyl ether	U	160								
4-Methylphenol	U	160								
4-Nitroaniline	U	660								
4-Nitrophenol	U	660								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Acetophenone	U	330								
Anthracene	U	30								
Atrazine	U	330								
Benzaldehyde	U	330								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Bis(2-chloroethoxy)methane	U	160								
Bis(2-chloroethyl)ether	U	160								
Bis(2-chloroisopropyl)ether	U	160								
Bis(2-ethylhexyl)phthalate	U	330								
Butyl benzyl phthalate	U	160								
Caprolactam	U	330								
Carbazole	U	160								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48185</b>	Instrument ID <b>SVMS6</b>	Method: <b>SW8270</b>						
Chrysene	U	30						
Dibenzo(a,h)anthracene	U	30						
Dibenzofuran	U	160						
Diethyl phthalate	U	330						
Dimethyl phthalate	U	330						
Di-n-butyl phthalate	U	330						
Di-n-octyl phthalate	U	160						
Fluoranthene	U	30						
Fluorene	U	30						
Hexachlorobenzene	U	160						
Hexachlorobutadiene	U	160						
Hexachlorocyclopentadiene	U	330						
Hexachloroethane	U	160						
Indeno(1,2,3-cd)pyrene	U	30						
Isophorone	U	160						
Naphthalene	U	30						
Nitrobenzene	U	160						
N-Nitrosodi-n-propylamine	U	160						
N-Nitrosodiphenylamine	U	160						
Pentachlorophenol	U	330						
Phenanthrene	U	30						
Phenol	U	160						
Pyrene	U	30						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1018</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>61.1</i>	<i>34-140</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1389</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>83.3</i>	<i>12-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1643</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>98.6</i>	<i>33-117</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>1649</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>99</i>	<i>25-137</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1439</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.4</i>	<i>37-107</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>1656</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>99.4</i>	<i>40-106</i>	<i>0</i>	

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48185** Instrument ID **SVMS6** Method: **SW8270**

LCS Sample ID: <b>SLCSS1-48185-48185</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/8/2013 12:49 PM</b>			
Client ID:		Run ID: <b>SVMS6_130508A</b>		SeqNo: <b>2311009</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	553.7	160	666.7	0	83	50-110	0			
2,4,6-Trichlorophenol	514	160	666.7	0	77.1	45-110	0			
2,4-Dichlorophenol	539.7	160	666.7	0	80.9	45-110	0			
2,4-Dimethylphenol	331	330	666.7	0	49.6	30-105	0			
2,4-Dinitrophenol	502	660	666.7	0	75.3	15-130	0			J
2,4-Dinitrotoluene	620.7	160	666.7	0	93.1	50-115	0			
2,6-Dinitrotoluene	524	160	666.7	0	78.6	50-110	0			
2-Chloronaphthalene	545.3	80	666.7	0	81.8	45-105	0			
2-Chlorophenol	631.7	160	666.7	0	94.7	45-105	0			
2-Methylnaphthalene	531	80	666.7	0	79.6	45-105	0			
2-Methylphenol	598.7	160	666.7	0	89.8	40-105	0			
2-Nitroaniline	497.7	660	666.7	0	74.6	45-120	0			J
2-Nitrophenol	496.3	160	666.7	0	74.4	40-110	0			
3-Nitroaniline	371.7	660	666.7	0	55.7	25-150	0			J
4-Bromophenyl phenyl ether	492.7	160	666.7	0	73.9	45-115	0			
4-Chloro-3-methylphenol	543.3	160	666.7	0	81.5	45-115	0			
4-Chloroaniline	396.7	660	666.7	0	59.5	15-110	0			J
4-Chlorophenyl phenyl ether	521	160	666.7	0	78.1	45-110	0			
4-Methylphenol	595.7	160	666.7	0	89.3	40-105	0			
4-Nitroaniline	271.3	660	666.7	0	40.7	35-150	0			J
4-Nitrophenol	499.3	660	666.7	0	74.9	15-140	0			J
Acenaphthene	545	30	666.7	0	81.7	45-110	0			
Acenaphthylene	553	30	666.7	0	82.9	45-105	0			
Anthracene	556.3	30	666.7	0	83.4	55-105	0			
Benzo(a)anthracene	558	30	666.7	0	83.7	50-110	0			
Benzo(a)pyrene	551.7	30	666.7	0	82.7	50-110	0			
Benzo(b)fluoranthene	571	30	666.7	0	85.6	45-115	0			
Benzo(g,h,i)perylene	580.7	30	666.7	0	87.1	40-125	0			
Benzo(k)fluoranthene	580.3	30	666.7	0	87	45-115	0			
Bis(2-chloroethoxy)methane	526.7	160	666.7	0	79	45-110	0			
Bis(2-chloroethyl)ether	660.7	160	666.7	0	99.1	40-105	0			
Bis(2-chloroisopropyl)ether	546.7	160	666.7	0	82	20-115	0			
Bis(2-ethylhexyl)phthalate	580.3	330	666.7	0	87	45-125	0			
Butyl benzyl phthalate	517	160	666.7	0	77.5	50-125	0			
Carbazole	591	160	666.7	0	88.6	50-150	0			
Chrysene	622	30	666.7	0	93.3	55-110	0			
Dibenzo(a,h)anthracene	589	30	666.7	0	88.3	40-125	0			
Dibenzofuran	543.7	160	666.7	0	81.5	50-105	0			
Diethyl phthalate	526	330	666.7	0	78.9	50-115	0			
Dimethyl phthalate	541.3	330	666.7	0	81.2	50-110	0			
Di-n-butyl phthalate	533	330	666.7	0	79.9	55-110	0			
Di-n-octyl phthalate	565.7	160	666.7	0	84.8	40-130	0			

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48185</b>		Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>			
Fluoranthene	616.3	30	666.7	0	92.4	55-115	0
Fluorene	551.7	30	666.7	0	82.7	50-110	0
Hexachlorobenzene	467	160	666.7	0	70	45-120	0
Hexachlorobutadiene	471.3	160	666.7	0	70.7	40-115	0
Hexachlorocyclopentadiene	395.3	330	666.7	0	59.3	40-115	0
Hexachloroethane	551.3	160	666.7	0	82.7	35-110	0
Indeno(1,2,3-cd)pyrene	563.3	30	666.7	0	84.5	40-120	0
Isophorone	499	160	666.7	0	74.8	45-110	0
Naphthalene	513.3	30	666.7	0	77	40-105	0
Nitrobenzene	567.3	160	666.7	0	85.1	40-115	0
N-Nitrosodi-n-propylamine	556	160	666.7	0	83.4	40-115	0
N-Nitrosodiphenylamine	536	160	666.7	0	80.4	50-115	0
Pentachlorophenol	441.7	330	666.7	0	66.2	25-120	0
Phenanthrene	514	30	666.7	0	77.1	50-110	0
Phenol	635.3	160	666.7	0	95.3	40-100	0
Pyrene	576	30	666.7	0	86.4	45-125	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1117</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>67</i>	<i>34-140</i>	<i>0</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>1291</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>77.4</i>	<i>12-100</i>	<i>0</i>
<i>Surr: 2-Fluorophenol</i>	<i>1643</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>98.6</i>	<i>33-117</i>	<i>0</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>1653</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>99.2</i>	<i>25-137</i>	<i>0</i>
<i>Surr: Nitrobenzene-d5</i>	<i>1311</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>78.7</i>	<i>37-107</i>	<i>0</i>
<i>Surr: Phenol-d6</i>	<i>1585</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>95.1</i>	<i>40-106</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48185**      Instrument ID **SVMS6**      Method: **SW8270**

MS      Sample ID: <b>1305011-04C MS</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/8/2013 01:09 PM</b>			
Client ID: <b>LCBP-SF-004</b>		Run ID: <b>SVMS6_130508A</b>		SeqNo: <b>2311010</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1202	310	1288	0	93.3	50-110	0			
2,4,6-Trichlorophenol	1147	310	1288	0	89	45-110	0			
2,4-Dichlorophenol	1134	310	1288	0	88	45-110	0			
2,4-Dimethylphenol	1119	640	1288	0	86.9	30-105	0			
2,4-Dinitrophenol	1125	1,300	1288	0	87.3	15-130	0			J
2,4-Dinitrotoluene	1271	310	1288	0	98.7	50-115	0			
2,6-Dinitrotoluene	1060	310	1288	0	82.3	50-110	0			
2-Chloronaphthalene	1094	150	1288	0	84.9	45-105	0			
2-Chlorophenol	1272	310	1288	0	98.8	45-105	0			
2-Methylnaphthalene	1071	150	1288	0	83.1	45-105	0			
2-Methylphenol	1269	310	1288	0	98.5	40-105	0			
2-Nitroaniline	1084	1,300	1288	0	84.1	45-120	0			J
2-Nitrophenol	1025	310	1288	0	79.6	40-110	0			
3-Nitroaniline	451.4	1,300	1288	0	35	25-110	0			J
4-Bromophenyl phenyl ether	1062	310	1288	0	82.5	45-115	0			
4-Chloro-3-methylphenol	1191	310	1288	0	92.5	45-115	0			
4-Chloroaniline	230.5	1,300	1288	0	17.9	15-110	0			J
4-Chlorophenyl phenyl ether	1091	310	1288	0	84.7	45-110	0			
4-Methylphenol	1267	310	1288	0	98.4	40-105	0			
4-Nitroaniline	589.8	1,300	1288	0	45.8	35-150	0			J
4-Nitrophenol	1104	1,300	1288	0	85.7	15-140	0			J
Acenaphthene	1124	58	1288	0	87.2	45-110	0			
Acenaphthylene	1126	58	1288	0	87.4	45-105	0			
Anthracene	1197	58	1288	0	92.9	55-105	0			
Benzo(a)anthracene	1218	58	1288	37.7	91.7	50-110	0			
Benzo(a)pyrene	1222	58	1288	57.52	90.4	50-110	0			
Benzo(b)fluoranthene	1200	58	1288	74.42	87.4	45-115	0			
Benzo(g,h,i)perylene	1207	58	1288	43.87	90.3	40-125	0			
Benzo(k)fluoranthene	1195	58	1288	34.77	90.1	45-115	0			
Bis(2-chloroethoxy)methane	1075	310	1288	0	83.4	45-110	0			
Bis(2-chloroethyl)ether	1370	310	1288	0	106	40-105	0			S
Bis(2-chloroisopropyl)ether	1120	310	1288	0	87	20-115	0			
Bis(2-ethylhexyl)phthalate	2198	640	1288	1172	79.7	45-125	0			
Butyl benzyl phthalate	1258	310	1288	81.9	91.3	50-125	0			
Carbazole	1229	310	1288	0	95.4	50-150	0			
Chrysene	1288	58	1288	33.15	97.5	55-110	0			
Dibenzo(a,h)anthracene	1214	58	1288	0	94.2	40-125	0			
Dibenzofuran	1093	310	1288	0	84.9	50-105	0			
Diethyl phthalate	1110	640	1288	0	86.2	50-115	0			
Dimethyl phthalate	1088	640	1288	0	84.4	50-110	0			
Di-n-butyl phthalate	1260	640	1288	75.07	92	55-110	0			
Di-n-octyl phthalate	1578	310	1288	0	122	40-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48185</b>		Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>			
Fluoranthene	1364	58	1288	44.85	102	55-115	0
Fluorene	1147	58	1288	0	89	50-110	0
Hexachlorobenzene	976.2	310	1288	0	75.8	45-120	0
Hexachlorobutadiene	974.9	310	1288	0	75.7	40-115	0
Hexachlorocyclopentadiene	842.9	640	1288	0	65.4	40-115	0
Hexachloroethane	1126	310	1288	0	87.4	35-110	0
Indeno(1,2,3-cd)pyrene	1247	58	1288	64.02	91.8	40-120	0
Isophorone	1045	310	1288	0	81.1	45-110	0
Naphthalene	1034	58	1288	0	80.3	40-105	0
Nitrobenzene	1123	310	1288	0	87.2	40-115	0
N-Nitrosodi-n-propylamine	1178	310	1288	0	91.5	40-115	0
N-Nitrosodiphenylamine	1150	310	1288	0	89.3	50-115	0
Pentachlorophenol	994.8	640	1288	0	77.2	25-120	0
Phenanthrene	1099	58	1288	0	85.3	50-110	0
Phenol	1284	310	1288	0	99.7	40-100	0
Pyrene	1215	58	1288	51.35	90.4	45-125	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2469</i>	<i>0</i>	<i>3220</i>	<i>0</i>	<i>76.7</i>	<i>34-140</i>	<i>0</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>2588</i>	<i>0</i>	<i>3220</i>	<i>0</i>	<i>80.4</i>	<i>12-100</i>	<i>0</i>
<i>Surr: 2-Fluorophenol</i>	<i>3272</i>	<i>0</i>	<i>3220</i>	<i>0</i>	<i>102</i>	<i>33-117</i>	<i>0</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>3326</i>	<i>0</i>	<i>3220</i>	<i>0</i>	<i>103</i>	<i>25-137</i>	<i>0</i>
<i>Surr: Nitrobenzene-d5</i>	<i>2690</i>	<i>0</i>	<i>3220</i>	<i>0</i>	<i>83.5</i>	<i>37-107</i>	<i>0</i>
<i>Surr: Phenol-d6</i>	<i>3191</i>	<i>0</i>	<i>3220</i>	<i>0</i>	<i>99.1</i>	<i>40-106</i>	<i>0</i>

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: 48185 Instrument ID SVMS6 Method: SW8270

MSD Sample ID: 1305011-04C MSD				Units: µg/Kg			Analysis Date: 5/8/2013 01:29 PM			
Client ID: LCBP-SF-004		Run ID: SVMS6_130508A		SeqNo: 2311011		Prep Date: 5/6/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1177	300	1257	0	93.6	50-110	1202	2.14	30	
2,4,6-Trichlorophenol	1115	300	1257	0	88.7	45-110	1147	2.86	30	
2,4-Dichlorophenol	1091	300	1257	0	86.8	45-110	1134	3.83	30	
2,4-Dimethylphenol	1037	620	1257	0	82.5	30-105	1119	7.65	30	
2,4-Dinitrophenol	1120	1,200	1257	0	89.1	15-130	1125	0	30	J
2,4-Dinitrotoluene	1237	300	1257	0	98.4	50-115	1271	2.71	30	
2,6-Dinitrotoluene	1019	300	1257	0	81.1	50-110	1060	3.93	30	
2-Chloronaphthalene	1040	150	1257	0	82.7	45-105	1094	5.08	30	
2-Chlorophenol	1198	300	1257	0	95.3	45-105	1272	6.01	30	
2-Methylnaphthalene	1018	150	1257	0	81	45-105	1071	5.02	30	
2-Methylphenol	1219	300	1257	0	97	40-105	1269	3.94	30	
2-Nitroaniline	1121	1,200	1257	0	89.2	45-120	1084	0	30	J
2-Nitrophenol	966.9	300	1257	0	76.9	40-110	1025	5.85	30	
3-Nitroaniline	423.4	1,200	1257	0	33.7	25-110	451.4	0	30	J
4-Bromophenyl phenyl ether	1008	300	1257	0	80.2	45-115	1062	5.29	30	
4-Chloro-3-methylphenol	1157	300	1257	0	92	45-115	1191	2.95	30	
4-Chloroaniline	169	1,200	1257	0	13.4	15-110	230.5	0	30	JS
4-Chlorophenyl phenyl ether	1045	300	1257	0	83.1	45-110	1091	4.31	30	
4-Methylphenol	1218	300	1257	0	96.9	40-105	1267	4	30	
4-Nitroaniline	356.2	1,200	1257	0	28.3	35-150	589.8	0	30	JS
4-Nitrophenol	1090	1,200	1257	0	86.7	15-140	1104	0	30	J
Acenaphthene	1071	57	1257	0	85.2	45-110	1124	4.78	30	
Acenaphthylene	1084	57	1257	0	86.3	45-105	1126	3.78	30	
Anthracene	1152	57	1257	0	91.6	55-105	1197	3.87	30	
Benzo(a)anthracene	1165	57	1257	37.7	89.7	50-110	1218	4.44	30	
Benzo(a)pyrene	1162	57	1257	57.52	87.9	50-110	1222	5.02	30	
Benzo(b)fluoranthene	1160	57	1257	74.42	86.4	45-115	1200	3.32	30	
Benzo(g,h,i)perylene	1110	57	1257	43.87	84.8	40-125	1207	8.45	30	
Benzo(k)fluoranthene	1112	57	1257	34.77	85.7	45-115	1195	7.2	30	
Bis(2-chloroethoxy)methane	1002	300	1257	0	79.7	45-110	1075	6.99	30	
Bis(2-chloroethyl)ether	1268	300	1257	0	101	40-105	1370	7.72	30	
Bis(2-chloroisopropyl)ether	1055	300	1257	0	83.9	20-115	1120	6.03	30	
Bis(2-ethylhexyl)phthalate	2427	620	1257	1172	99.9	45-125	2198	9.89	30	
Butyl benzyl phthalate	1183	300	1257	81.9	87.6	50-125	1258	6.11	30	
Carbazole	1196	300	1257	0	95.1	50-150	1229	2.78	30	
Chrysene	1219	57	1257	33.15	94.4	55-110	1288	5.56	30	
Dibenzo(a,h)anthracene	1120	57	1257	0	89.1	40-125	1214	8.02	30	
Dibenzofuran	1067	300	1257	0	84.9	50-105	1093	2.46	30	
Diethyl phthalate	1074	620	1257	0	85.4	50-115	1110	3.33	30	
Dimethyl phthalate	1041	620	1257	0	82.8	50-110	1088	4.37	30	
Di-n-butyl phthalate	1148	620	1257	75.07	85.4	55-110	1260	9.27	30	
Di-n-octyl phthalate	1539	300	1257	0	122	40-130	1578	2.5	30	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48185</b>	Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>						
Fluoranthene	1316	57	1257	44.85	101	55-115	1364	3.65	30
Fluorene	1103	57	1257	0	87.8	50-110	1147	3.87	30
Hexachlorobenzene	933.6	300	1257	0	74.3	45-120	976.2	4.46	30
Hexachlorobutadiene	897.2	300	1257	0	71.4	40-115	974.9	8.3	30
Hexachlorocyclopentadiene	726.9	620	1257	0	57.8	40-115	842.9	14.8	30
Hexachloroethane	1061	300	1257	0	84.4	35-110	1126	5.95	30
Indeno(1,2,3-cd)pyrene	1159	57	1257	64.02	87.1	40-120	1247	7.33	30
Isophorone	1009	300	1257	0	80.3	45-110	1045	3.51	30
Naphthalene	956.8	57	1257	0	76.1	40-105	1034	7.76	30
Nitrobenzene	1051	300	1257	0	83.6	40-115	1123	6.62	30
N-Nitrosodi-n-propylamine	1128	300	1257	0	89.8	40-115	1178	4.34	30
N-Nitrosodiphenylamine	1084	300	1257	0	86.3	50-115	1150	5.88	30
Pentachlorophenol	993.3	620	1257	0	79	25-120	994.8	0.158	30
Phenanthrene	1053	57	1257	0	83.8	50-110	1099	4.29	30
Phenol	1209	300	1257	0	96.2	40-100	1284	5.98	30
Pyrene	1109	57	1257	51.35	84.2	45-125	1215	9.14	30
<i>Surr: 2,4,6-Tribromophenol</i>	2417	0	3141	0	76.9	34-140	2469	2.15	40
<i>Surr: 2-Fluorobiphenyl</i>	2458	0	3141	0	78.3	12-100	2588	5.13	40
<i>Surr: 2-Fluorophenol</i>	3125	0	3141	0	99.5	33-117	3272	4.61	40
<i>Surr: 4-Terphenyl-d14</i>	3019	0	3141	0	96.1	25-137	3326	9.68	40
<i>Surr: Nitrobenzene-d5</i>	2533	0	3141	0	80.6	37-107	2690	5.99	40
<i>Surr: Phenol-d6</i>	3051	0	3141	0	97.1	40-106	3191	4.48	40

The following samples were analyzed in this batch:

1305011-01C  
1305011-04C

1305011-02C

1305011-03C

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48186** Instrument ID **SVMS5** Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>DBLKS1-48186-48186</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/8/2013 01:06 PM</b>		
Client ID:		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310803</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	4.2								
ORO (C21-C35)	U	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.786	0	1.667	0	107	25-137	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-48186-48186</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/8/2013 02:47 PM</b>		
Client ID:		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310815</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	88.95	4.2	166.7	0	53.4	49-124	0			
ORO (C21-C35)	112.1	4.2	166.7	0	67.2	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.675	0	1.667	0	100	25-137	0			

<b>MS</b>		Sample ID: <b>1305011-04C MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/8/2013 03:07 PM</b>		
Client ID: <b>LCBP-SF-004</b>		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310817</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	171.2	8.3	331.5	0	51.6	31-135	0			
ORO (C21-C35)	260.7	8.3	331.5	29.63	69.7	31-135	0			
<i>Surr: 4-Terphenyl-d14</i>	3.403	0	3.315	0	103	25-137	0			

<b>MSD</b>		Sample ID: <b>1305011-04C MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/8/2013 03:27 PM</b>		
Client ID: <b>LCBP-SF-004</b>		Run ID: <b>SVMS5_130508A</b>				SeqNo: <b>2310820</b>		Prep Date: <b>5/6/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	157.7	8.1	325.6	0	48.4	31-135	171.2	8.22	30	
ORO (C21-C35)	251.9	8.1	325.6	29.63	68.3	31-135	260.7	3.41	30	
<i>Surr: 4-Terphenyl-d14</i>	3.259	0	3.256	0	100	25-137	3.403	4.34	30	

The following samples were analyzed in this batch:

1305011-01C	1305011-02C	1305011-03C
1305011-04C		

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/4/2013 11:27 PM</b>		
Client ID:		Run ID: <b>VMS7_130504B</b>				SeqNo: <b>2304522</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>						
Styrene	U	30						
Tetrachloroethene	U	30						
Toluene	U	30						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1075</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>108</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>939</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>93.9</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1062</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1042</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/5/2013 03:09 AM</b>		
Client ID:		Run ID: <b>VMS5_130504B</b>				SeqNo: <b>2304569</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>		Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Styrene	U	30						
Tetrachloroethene	U	30						
Toluene	U	30						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1011</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>967</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.7</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1009</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/5/2013 04:53 AM</b>		
Client ID:		Run ID: <b>VMS8_130504C</b>				SeqNo: <b>2304697</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	298	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>						
Styrene	U	30						
Tetrachloroethene	U	30						
Toluene	U	30						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>858.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>85.8</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>919.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>92</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>971</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.1</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>972</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/5/2013 04:53 PM</b>		
Client ID:		Run ID: <b>VMS8_130505A</b>				SeqNo: <b>2306090</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	97	200								J
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	1004	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	102.5	200								J
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>
Styrene	U	30
Tetrachloroethene	U	30
Toluene	U	30
trans-1,2-Dichloroethene	U	30
trans-1,3-Dichloropropene	U	30
Trichloroethene	U	30
Trichlorofluoromethane	U	30
Vinyl chloride	U	30
Xylenes, Total	U	90
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>839</i>	<i>0 1000 0 83.9 70-130 0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>897.5</i>	<i>0 1000 0 89.8 70-130 0</i>
<i>Surr: Dibromofluoromethane</i>	<i>956.5</i>	<i>0 1000 0 95.6 70-130 0</i>
<i>Surr: Toluene-d8</i>	<i>940.5</i>	<i>0 1000 0 94 70-130 0</i>

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/6/2013 03:02 PM</b>		
Client ID:		Run ID: <b>VMS6_130506A</b>				SeqNo: <b>2307287</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	21	30								J
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>					
Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>983</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.3</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>993.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>950.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>989.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/7/2013 06:10 PM</b>		
Client ID:		Run ID: <b>VMS6_130507A</b>				SeqNo: <b>2309153</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	210	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	24	30								J
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068** Instrument ID **VMS7** Method: **SW8260**

Styrene	U	30							
Tetrachloroethene	U	30							
Toluene	U	30							
trans-1,2-Dichloroethene	U	30							
trans-1,3-Dichloropropene	U	30							
Trichloroethene	U	30							
Trichlorofluoromethane	U	30							
Vinyl chloride	U	30							
Xylenes, Total	U	90							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>958.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.8</i>	<i>70-130</i>	<i>0</i>		
<i>Surr: 4-Bromofluorobenzene</i>	<i>988.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>0</i>		
<i>Surr: Dibromofluoromethane</i>	<i>950.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95</i>	<i>70-130</i>	<i>0</i>		
<i>Surr: Toluene-d8</i>	<i>990.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>		

<b>MBLK</b>		Sample ID: <b>MBLK-48068-48068</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/7/2013 06:10 PM</b>		
Client ID:			Run ID: <b>VMS6_130507A</b>			SeqNo: <b>2309248</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1519	5,000								J
<i>Surr: Toluene-d8</i>	<i>951.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.2</i>	<i>70-130</i>	<i>0</i>			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>LCS-48068-48068</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/4/2013 10:11 PM</b>			
Client ID:		Run ID: <b>VMS7_130504B</b>		SeqNo: <b>2304521</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	961	30	1000	0	96.1	70-135	0			
1,1,2,2-Tetrachloroethane	842.5	30	1000	0	84.2	55-130	0			
1,1,2-Trichloroethane	939	30	1000	0	93.9	60-125	0			
1,1-Dichloroethane	905	30	1000	0	90.5	75-125	0			
1,1-Dichloroethene	817	30	1000	0	81.7	65-135	0			
1,2,4-Trichlorobenzene	1026	30	1000	0	103	65-130	0			
1,2-Dibromo-3-chloropropane	848.5	30	1000	0	84.8	40-135	0			
1,2-Dibromoethane	985	30	1000	0	98.5	70-125	0			
1,2-Dichlorobenzene	982.5	30	1000	0	98.2	75-120	0			
1,2-Dichloroethane	952.5	30	1000	0	95.2	70-135	0			
1,2-Dichloropropane	908.5	30	1000	0	90.8	70-120	0			
1,3-Dichlorobenzene	988	30	1000	0	98.8	70-125	0			
1,4-Dichlorobenzene	988.5	30	1000	0	98.8	70-125	0			
2-Butanone	1196	200	1000	0	120	30-160	0			
2-Hexanone	783	30	1000	0	78.3	45-145	0			
4-Methyl-2-pentanone	1075	30	1000	0	108	45-145	0			
Acetone	1034	100	1000	0	103	20-160	0			
Benzene	947	30	1000	0	94.7	75-125	0			
Bromodichloromethane	855.5	30	1000	0	85.6	70-130	0			
Bromoform	784.5	30	1000	0	78.4	55-135	0			
Bromomethane	1186	75	1000	0	119	30-160	0			
Carbon disulfide	860.5	30	1000	0	86	45-160	0			
Carbon tetrachloride	1028	30	1000	0	103	65-135	0			
Chlorobenzene	1010	30	1000	0	101	75-125	0			
Chloroethane	867.5	100	1000	0	86.8	40-155	0			
Chloroform	991.5	30	1000	0	99.2	70-125	0			
Chloromethane	808.5	100	1000	0	80.8	50-130	0			
cis-1,2-Dichloroethene	928	30	1000	0	92.8	65-125	0			
cis-1,3-Dichloropropene	888.5	30	1000	0	88.8	70-125	0			
Dibromochloromethane	876.5	30	1000	0	87.6	65-135	0			
Dichlorodifluoromethane	671.5	30	1000	0	67.2	35-135	0			
Ethylbenzene	943	30	1000	0	94.3	75-125	0			
Isopropylbenzene	937.5	30	1000	0	93.8	75-130	0			
m,p-Xylene	1968	60	2000	0	98.4	80-125	0			
Methyl tert-butyl ether	1109	30	1000	0	111	75-125	0			
Methylene chloride	882	30	1000	0	88.2	55-145	0			
o-Xylene	931	30	1000	0	93.1	75-125	0			
Styrene	955	30	1000	0	95.5	75-125	0			
Tetrachloroethene	1156	30	1000	0	116	64-140	0			
Toluene	941	30	1000	0	94.1	70-125	0			
trans-1,2-Dichloroethene	903	30	1000	0	90.3	65-135	0			
trans-1,3-Dichloropropene	883	30	1000	0	88.3	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

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Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>					
Trichloroethene	1108	30	1000	0	111	75-125	0
Trichlorofluoromethane	1042	30	1000	0	104	25-185	0
Vinyl chloride	725.5	30	1000	0	72.6	60-125	0
Xylenes, Total	2900	90	3000	0	96.6	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1022</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>895</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>89.5</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1086</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>109</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>980.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

LCS				Sample ID: <b>LCS-48068-48068</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>5/5/2013 01:59 AM</b>	
Client ID:				Run ID: <b>VMS5_130504B</b>			SeqNo: <b>2304568</b>		Prep Date: <b>5/1/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	958.5	30	1000	0	95.8	70-135	0			
1,1,2,2-Tetrachloroethane	963.5	30	1000	0	96.4	55-130	0			
1,1,2-Trichloroethane	906.5	30	1000	0	90.6	60-125	0			
1,1-Dichloroethane	917.5	30	1000	0	91.8	75-125	0			
1,1-Dichloroethene	882	30	1000	0	88.2	65-135	0			
1,2,4-Trichlorobenzene	977.5	30	1000	0	97.8	65-130	0			
1,2-Dibromo-3-chloropropane	951	30	1000	0	95.1	40-135	0			
1,2-Dibromoethane	986	30	1000	0	98.6	70-125	0			
1,2-Dichlorobenzene	959.5	30	1000	0	96	75-120	0			
1,2-Dichloroethane	888.5	30	1000	0	88.8	70-135	0			
1,2-Dichloropropane	854	30	1000	0	85.4	70-120	0			
1,3-Dichlorobenzene	907.5	30	1000	0	90.8	70-125	0			
1,4-Dichlorobenzene	933	30	1000	0	93.3	70-125	0			
2-Butanone	1084	200	1000	0	108	30-160	0			
2-Hexanone	970.5	30	1000	0	97	45-145	0			
4-Methyl-2-pentanone	1488	30	1000	0	149	45-145	0			S
Acetone	1202	100	1000	0	120	20-160	0			
Benzene	910	30	1000	0	91	75-125	0			
Bromodichloromethane	992.5	30	1000	0	99.2	70-130	0			
Bromoform	987.5	30	1000	0	98.8	55-135	0			
Bromomethane	1204	75	1000	0	120	30-160	0			
Carbon disulfide	980.5	30	1000	0	98	45-160	0			
Carbon tetrachloride	956.5	30	1000	0	95.6	65-135	0			
Chlorobenzene	953	30	1000	0	95.3	75-125	0			
Chloroethane	917.5	100	1000	0	91.8	40-155	0			
Chloroform	905	30	1000	0	90.5	70-125	0			
Chloromethane	838.5	100	1000	0	83.8	50-130	0			
cis-1,2-Dichloroethene	920.5	30	1000	0	92	65-125	0			
cis-1,3-Dichloropropene	934	30	1000	0	93.4	70-125	0			
Dibromochloromethane	947	30	1000	0	94.7	65-135	0			
Dichlorodifluoromethane	788.5	30	1000	0	78.8	35-135	0			
Ethylbenzene	964	30	1000	0	96.4	75-125	0			
Isopropylbenzene	998.5	30	1000	0	99.8	75-130	0			
m,p-Xylene	1930	60	2000	0	96.5	80-125	0			
Methyl tert-butyl ether	1014	30	1000	0	101	75-125	0			
Methylene chloride	1030	30	1000	0	103	55-145	0			
o-Xylene	965.5	30	1000	0	96.6	75-125	0			
Styrene	974	30	1000	0	97.4	75-125	0			
Tetrachloroethene	922	30	1000	0	92.2	64-140	0			
Toluene	918.5	30	1000	0	91.8	70-125	0			
trans-1,2-Dichloroethene	923.5	30	1000	0	92.4	65-135	0			
trans-1,3-Dichloropropene	952	30	1000	0	95.2	65-125	0			

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	892	30	1000	0	89.2	75-125	0
Trichlorofluoromethane	936.5	30	1000	0	93.6	25-185	0
Vinyl chloride	814	30	1000	0	81.4	60-125	0
Xylenes, Total	2896	90	3000	0	96.5	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>984.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1016</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>996.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>991.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>LCS-48068-48068</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/5/2013 03:42 AM</b>			
Client ID:		Run ID: <b>VMS8_130504C</b>		SeqNo: <b>2304696</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	941	30	1000	0	94.1	70-135	0			
1,1,2,2-Tetrachloroethane	1130	30	1000	0	113	55-130	0			
1,1,2-Trichloroethane	1038	30	1000	0	104	60-125	0			
1,1-Dichloroethane	812	30	1000	0	81.2	75-125	0			
1,1-Dichloroethene	717.5	30	1000	0	71.8	65-135	0			
1,2,4-Trichlorobenzene	1162	30	1000	0	116	65-130	0			
1,2-Dibromo-3-chloropropane	1353	30	1000	0	135	40-135	0			S
1,2-Dibromoethane	1085	30	1000	0	108	70-125	0			
1,2-Dichlorobenzene	1038	30	1000	0	104	75-120	0			
1,2-Dichloroethane	870.5	30	1000	0	87	70-135	0			
1,2-Dichloropropane	920.5	30	1000	0	92	70-120	0			
1,3-Dichlorobenzene	1004	30	1000	0	100	70-125	0			
1,4-Dichlorobenzene	1001	30	1000	0	100	70-125	0			
2-Butanone	1170	200	1000	0	117	30-160	0			
2-Hexanone	1204	30	1000	0	120	45-145	0			
4-Methyl-2-pentanone	1522	30	1000	0	152	45-145	0			S
Acetone	1484	100	1000	0	148	20-160	0			B
Benzene	912.5	30	1000	0	91.2	75-125	0			
Bromodichloromethane	933	30	1000	0	93.3	70-130	0			
Bromoform	1150	30	1000	0	115	55-135	0			
Bromomethane	850.5	75	1000	0	85	30-160	0			
Carbon disulfide	818.5	30	1000	0	81.8	45-160	0			
Carbon tetrachloride	941	30	1000	0	94.1	65-135	0			
Chlorobenzene	1012	30	1000	0	101	75-125	0			
Chloroethane	628.5	100	1000	0	62.8	40-155	0			
Chloroform	831.5	30	1000	0	83.2	70-125	0			
Chloromethane	612	100	1000	0	61.2	50-130	0			
cis-1,2-Dichloroethene	823	30	1000	0	82.3	65-125	0			
cis-1,3-Dichloropropene	978	30	1000	0	97.8	70-125	0			
Dibromochloromethane	1032	30	1000	0	103	65-135	0			
Dichlorodifluoromethane	447.5	30	1000	0	44.8	35-135	0			
Ethylbenzene	962	30	1000	0	96.2	75-125	0			
Isopropylbenzene	983.5	30	1000	0	98.4	75-130	0			
m,p-Xylene	1906	60	2000	0	95.3	80-125	0			
Methyl tert-butyl ether	1002	30	1000	0	100	75-125	0			
Methylene chloride	771	30	1000	0	77.1	55-145	0			
o-Xylene	975.5	30	1000	0	97.6	75-125	0			
Styrene	1070	30	1000	0	107	75-125	0			
Tetrachloroethene	1161	30	1000	0	116	64-140	0			
Toluene	921	30	1000	0	92.1	70-125	0			
trans-1,2-Dichloroethene	793	30	1000	0	79.3	65-135	0			
trans-1,3-Dichloropropene	945.5	30	1000	0	94.6	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

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Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>					
Trichloroethene	1088	30	1000	0	109	75-125	0
Trichlorofluoromethane	779.5	30	1000	0	78	25-185	0
Vinyl chloride	653.5	30	1000	0	65.4	60-125	0
Xylenes, Total	2882	90	3000	0	96	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>829.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>83</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>882</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>88.2</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>969.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>929.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>93</i>	<i>70-130</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>LCS-48068-48068</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/5/2013 03:42 PM</b>			
Client ID:		Run ID: <b>VMS8_130505A</b>		SeqNo: <b>2306089</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	969.5	30	1000	0	97	70-135	0			
1,1,2,2-Tetrachloroethane	1086	30	1000	0	109	55-130	0			
1,1,2-Trichloroethane	1015	30	1000	0	102	60-125	0			
1,1-Dichloroethane	805	30	1000	0	80.5	75-125	0			
1,1-Dichloroethene	741.5	30	1000	0	74.2	65-135	0			
1,2,4-Trichlorobenzene	1186	30	1000	0	119	65-130	0			
1,2-Dibromo-3-chloropropane	1273	30	1000	0	127	40-135	0			
1,2-Dibromoethane	1072	30	1000	0	107	70-125	0			
1,2-Dichlorobenzene	1013	30	1000	0	101	75-120	0			
1,2-Dichloroethane	840.5	30	1000	0	84	70-135	0			
1,2-Dichloropropane	934.5	30	1000	0	93.4	70-120	0			
1,3-Dichlorobenzene	1016	30	1000	0	102	70-125	0			
1,4-Dichlorobenzene	1012	30	1000	0	101	70-125	0			
2-Butanone	1172	200	1000	0	117	30-160	0			
2-Hexanone	1102	30	1000	0	110	45-145	0			
4-Methyl-2-pentanone	1392	30	1000	0	139	45-145	0			
Acetone	2490	100	1000	0	249	20-160	0			BS
Benzene	924.5	30	1000	0	92.4	75-125	0			
Bromodichloromethane	957.5	30	1000	0	95.8	70-130	0			
Bromoform	1118	30	1000	0	112	55-135	0			
Bromomethane	893	75	1000	0	89.3	30-160	0			
Carbon disulfide	858	30	1000	0	85.8	45-160	0			
Carbon tetrachloride	984.5	30	1000	0	98.4	65-135	0			
Chlorobenzene	1004	30	1000	0	100	75-125	0			
Chloroethane	563.5	100	1000	0	56.4	40-155	0			
Chloroform	824	30	1000	0	82.4	70-125	0			
Chloromethane	594.5	100	1000	0	59.4	50-130	0			
cis-1,2-Dichloroethene	829.5	30	1000	0	83	65-125	0			
cis-1,3-Dichloropropene	1001	30	1000	0	100	70-125	0			
Dibromochloromethane	1012	30	1000	0	101	65-135	0			
Dichlorodifluoromethane	520.5	30	1000	0	52	35-135	0			
Ethylbenzene	978	30	1000	0	97.8	75-125	0			
Isopropylbenzene	1032	30	1000	0	103	75-130	0			
m,p-Xylene	1949	60	2000	0	97.4	80-125	0			
Methyl tert-butyl ether	977	30	1000	0	97.7	75-125	0			
Methylene chloride	758	30	1000	0	75.8	55-145	0			
o-Xylene	979.5	30	1000	0	98	75-125	0			
Styrene	1072	30	1000	0	107	75-125	0			
Tetrachloroethene	1180	30	1000	0	118	64-140	0			
Toluene	941	30	1000	0	94.1	70-125	0			
trans-1,2-Dichloroethene	811	30	1000	0	81.1	65-135	0			
trans-1,3-Dichloropropene	968	30	1000	0	96.8	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	1091	30	1000	0	109	75-125	0
Trichlorofluoromethane	844.5	30	1000	0	84.4	25-185	0
Vinyl chloride	686.5	30	1000	0	68.6	60-125	0
Xylenes, Total	2928	90	3000	0	97.6	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>849</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>84.9</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>900</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>90</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>993.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>962</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.2</i>	<i>70-130</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>LCS-48068-48068</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/6/2013 01:08 PM</b>			
Client ID:		Run ID: <b>VMS6_130506A</b>		SeqNo: <b>2307286</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1100	30	1000	0	110	70-135	0			
1,1,2,2-Tetrachloroethane	1158	30	1000	0	116	55-130	0			
1,1,2-Trichloroethane	1057	30	1000	0	106	60-125	0			
1,1-Dichloroethane	1182	30	1000	0	118	75-125	0			
1,1-Dichloroethene	1230	30	1000	0	123	65-135	0			
1,2,4-Trichlorobenzene	1076	30	1000	0	108	65-130	0			
1,2-Dibromo-3-chloropropane	975	30	1000	0	97.5	40-135	0			
1,2-Dibromoethane	1184	30	1000	0	118	70-125	0			
1,2-Dichlorobenzene	1067	30	1000	0	107	75-120	0			
1,2-Dichloroethane	1094	30	1000	0	109	70-135	0			
1,2-Dichloropropane	1133	30	1000	0	113	70-120	0			
1,3-Dichlorobenzene	1060	30	1000	0	106	70-125	0			
1,4-Dichlorobenzene	1052	30	1000	0	105	70-125	0			
2-Butanone	1426	200	1000	0	143	30-160	0			
2-Hexanone	1136	30	1000	0	114	45-145	0			
4-Methyl-2-pentanone	1496	30	1000	0	150	45-145	0			S
Acetone	1290	100	1000	0	129	20-160	0			
Benzene	1167	30	1000	0	117	75-125	0			
Bromodichloromethane	1166	30	1000	0	117	70-130	0			
Bromoform	857	30	1000	0	85.7	55-135	0			
Bromomethane	1179	75	1000	0	118	30-160	0			
Carbon disulfide	1270	30	1000	0	127	45-160	0			
Carbon tetrachloride	1029	30	1000	0	103	65-135	0			
Chlorobenzene	1092	30	1000	0	109	75-125	0			
Chloroethane	1058	100	1000	0	106	40-155	0			
Chloroform	1156	30	1000	0	116	70-125	0			
Chloromethane	905.5	100	1000	0	90.6	50-130	0			
cis-1,2-Dichloroethene	1178	30	1000	0	118	65-125	0			
cis-1,3-Dichloropropene	1183	30	1000	0	118	70-125	0			
Dibromochloromethane	862	30	1000	0	86.2	65-135	0			
Dichlorodifluoromethane	699	30	1000	0	69.9	35-135	0			
Ethylbenzene	1148	30	1000	0	115	75-125	0			
Isopropylbenzene	1162	30	1000	0	116	75-130	0			
m,p-Xylene	2296	60	2000	0	115	80-125	0			
Methyl tert-butyl ether	1140	30	1000	0	114	75-125	0			
Methylene chloride	1213	30	1000	0	121	55-145	0			
o-Xylene	1066	30	1000	0	107	75-125	0			
Styrene	1162	30	1000	0	116	75-125	0			
Tetrachloroethene	1118	30	1000	0	112	64-140	0			
Toluene	1090	30	1000	0	109	70-125	0			
trans-1,2-Dichloroethene	1272	30	1000	0	127	65-135	0			
trans-1,3-Dichloropropene	1164	30	1000	0	116	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	1164	30	1000	0	116	75-125	0
Trichlorofluoromethane	1004	30	1000	0	100	25-185	0
Vinyl chloride	1001	30	1000	0	100	60-125	0
Xylenes, Total	3362	90	3000	0	112	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>974</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1032</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1022</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1010</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: <b>LCS-48068-48068</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/7/2013 04:31 PM</b>			
Client ID:		Run ID: <b>VMS6_130507A</b>		SeqNo: <b>2309152</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1118	30	1000	0	112	70-135	0			
1,1,2,2-Tetrachloroethane	1150	30	1000	0	115	55-130	0			
1,1,2-Trichloroethane	1034	30	1000	0	103	60-125	0			
1,1-Dichloroethane	1152	30	1000	0	115	75-125	0			
1,1-Dichloroethene	1245	30	1000	0	124	65-135	0			
1,2,4-Trichlorobenzene	975.5	30	1000	0	97.6	65-130	0			
1,2-Dibromo-3-chloropropane	961.5	30	1000	0	96.2	40-135	0			
1,2-Dibromoethane	1166	30	1000	0	117	70-125	0			
1,2-Dichlorobenzene	1058	30	1000	0	106	75-120	0			
1,2-Dichloroethane	1064	30	1000	0	106	70-135	0			
1,2-Dichloropropane	1121	30	1000	0	112	70-120	0			
1,3-Dichlorobenzene	1057	30	1000	0	106	70-125	0			
1,4-Dichlorobenzene	1036	30	1000	0	104	70-125	0			
2-Butanone	1200	200	1000	0	120	30-160	0			
2-Hexanone	1152	30	1000	0	115	45-145	0			
4-Methyl-2-pentanone	1530	30	1000	0	153	45-145	0			S
Acetone	1339	100	1000	0	134	20-160	0			B
Benzene	1152	30	1000	0	115	75-125	0			
Bromodichloromethane	1137	30	1000	0	114	70-130	0			
Bromoform	813	30	1000	0	81.3	55-135	0			
Bromomethane	1122	75	1000	0	112	30-160	0			
Carbon disulfide	1216	30	1000	0	122	45-160	0			
Carbon tetrachloride	1052	30	1000	0	105	65-135	0			
Chlorobenzene	1069	30	1000	0	107	75-125	0			
Chloroethane	1092	100	1000	0	109	40-155	0			
Chloroform	1136	30	1000	0	114	70-125	0			
Chloromethane	959.5	100	1000	0	96	50-130	0			
cis-1,2-Dichloroethene	1146	30	1000	0	115	65-125	0			
cis-1,3-Dichloropropene	1136	30	1000	0	114	70-125	0			
Dibromochloromethane	848.5	30	1000	0	84.8	65-135	0			
Dichlorodifluoromethane	946	30	1000	0	94.6	35-135	0			
Ethylbenzene	1158	30	1000	0	116	75-125	0			
Isopropylbenzene	1197	30	1000	0	120	75-130	0			
m,p-Xylene	2328	60	2000	0	116	80-125	0			
Methyl tert-butyl ether	1146	30	1000	0	115	75-125	0			
Methylene chloride	1194	30	1000	0	119	55-145	0			
o-Xylene	1072	30	1000	0	107	75-125	0			
Styrene	1156	30	1000	0	116	75-125	0			
Tetrachloroethene	1129	30	1000	0	113	64-140	0			
Toluene	1082	30	1000	0	108	70-125	0			
trans-1,2-Dichloroethene	1239	30	1000	0	124	65-135	0			
trans-1,3-Dichloropropene	1101	30	1000	0	110	65-125	0			

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>					
Trichloroethene	1130	30	1000	0	113	75-125	0
Trichlorofluoromethane	1088	30	1000	0	109	25-185	0
Vinyl chloride	1052	30	1000	0	105	60-125	0
Xylenes, Total	3399	90	3000	0	113	75-125	0
Surr: 1,2-Dichloroethane-d4	954	0	1000	0	95.4	70-130	0
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0
Surr: Dibromofluoromethane	1002	0	1000	0	100	70-130	0
Surr: Toluene-d8	980.5	0	1000	0	98	70-130	0

<b>LCS</b>	Sample ID: <b>LCS-48068-48068</b>	Units: <b>µg/Kg</b>	Analysis Date: <b>5/7/2013 04:56 PM</b>							
Client ID:	Run ID: <b>VMS6_130507A</b>	SeqNo: <b>2309247</b>	Prep Date: <b>5/1/2013</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	23100	5,000	25000	0	92.4	70-130	0			
Surr: Toluene-d8	972.5	0	1000	0	97.2	70-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MS				Sample ID: <b>1305012-01A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>5/5/2013 11:21 AM</b>	
Client ID:				Run ID: <b>VMS5_130504B</b>			SeqNo: <b>2304678</b>		Prep Date: <b>5/1/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	955	30	1000	0	95.5	70-135	0			
1,1,2,2-Tetrachloroethane	891	30	1000	0	89.1	55-130	0			
1,1,2-Trichloroethane	875.5	30	1000	0	87.6	60-125	0			
1,1-Dichloroethane	900	30	1000	0	90	75-125	0			
1,1-Dichloroethene	945	30	1000	0	94.5	65-135	0			
1,2,4-Trichlorobenzene	863	30	1000	0	86.3	65-130	0			
1,2-Dibromo-3-chloropropane	794	30	1000	0	79.4	40-135	0			
1,2-Dibromoethane	907	30	1000	0	90.7	70-125	0			
1,2-Dichlorobenzene	890	30	1000	0	89	75-120	0			
1,2-Dichloroethane	901.5	30	1000	0	90.2	70-135	0			
1,2-Dichloropropane	852	30	1000	0	85.2	70-120	0			
1,3-Dichlorobenzene	849	30	1000	0	84.9	70-125	0			
1,4-Dichlorobenzene	864.5	30	1000	0	86.4	70-125	0			
2-Butanone	992.5	200	1000	0	99.2	30-160	0			
2-Hexanone	903	30	1000	0	90.3	45-145	0			
4-Methyl-2-pentanone	1374	30	1000	0	137	45-145	0			
Acetone	997	100	1000	0	99.7	20-160	0			
Benzene	913.5	30	1000	0	91.4	75-125	0			
Bromodichloromethane	883.5	30	1000	0	88.4	70-130	0			
Bromoform	786.5	30	1000	0	78.6	55-135	0			
Bromomethane	748	75	1000	0	74.8	30-160	0			
Carbon disulfide	992.5	30	1000	0	99.2	45-160	0			
Carbon tetrachloride	943.5	30	1000	0	94.4	65-135	0			
Chlorobenzene	913	30	1000	0	91.3	75-125	0			
Chloroethane	861	100	1000	0	86.1	40-155	0			
Chloroform	890	30	1000	0	89	70-125	0			
Chloromethane	953.5	100	1000	0	95.4	50-130	0			
cis-1,2-Dichloroethene	891.5	30	1000	0	89.2	65-125	0			
cis-1,3-Dichloropropene	847.5	30	1000	0	84.8	70-125	0			
Dibromochloromethane	776	30	1000	0	77.6	65-135	0			
Dichlorodifluoromethane	984	30	1000	0	98.4	35-135	0			
Ethylbenzene	939.5	30	1000	0	94	75-125	0			
Isopropylbenzene	960	30	1000	0	96	75-130	0			
m,p-Xylene	1843	60	2000	0	92.2	80-125	0			
Methyl tert-butyl ether	969.5	30	1000	0	97	75-125	0			
Methylene chloride	1006	30	1000	0	101	55-145	0			
o-Xylene	935	30	1000	0	93.5	75-125	0			
Styrene	928.5	30	1000	0	92.8	75-125	0			
Tetrachloroethene	925	30	1000	0	92.5	64-140	0			
Toluene	925	30	1000	29.5	89.6	70-125	0			
trans-1,2-Dichloroethene	947	30	1000	0	94.7	65-135	0			
trans-1,3-Dichloropropene	835	30	1000	0	83.5	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	894	30	1000	0	89.4	75-125	0
Trichlorofluoromethane	1027	30	1000	0	103	25-185	0
Vinyl chloride	884	30	1000	0	88.4	60-125	0
Xylenes, Total	2778	90	3000	0	92.6	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	969	0	1000	0	96.9	70-130	0
<i>Surr: 4-Bromofluorobenzene</i>	999.5	0	1000	0	100	70-130	0
<i>Surr: Dibromofluoromethane</i>	962	0	1000	0	96.2	70-130	0
<i>Surr: Toluene-d8</i>	993	0	1000	0	99.3	70-130	0

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **48068**      Instrument ID **VMS7**      Method: **SW8260**

MSD				Sample ID: 1305012-01A MSD				Units: µg/Kg		Analysis Date: 5/5/2013 11:45 AM	
Client ID:		Run ID: VMS5_130504B			SeqNo: 2304679		Prep Date: 5/1/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	979	30	1000	0	97.9	70-135	955	2.48	30		
1,1,2,2-Tetrachloroethane	923.5	30	1000	0	92.4	55-130	891	3.58	30		
1,1,2-Trichloroethane	877.5	30	1000	0	87.8	60-125	875.5	0.228	30		
1,1-Dichloroethane	912.5	30	1000	0	91.2	75-125	900	1.38	30		
1,1-Dichloroethene	912	30	1000	0	91.2	65-135	945	3.55	30		
1,2,4-Trichlorobenzene	960.5	30	1000	0	96	65-130	863	10.7	30		
1,2-Dibromo-3-chloropropane	835	30	1000	0	83.5	40-135	794	5.03	30		
1,2-Dibromoethane	942.5	30	1000	0	94.2	70-125	907	3.84	30		
1,2-Dichlorobenzene	944.5	30	1000	0	94.4	75-120	890	5.94	30		
1,2-Dichloroethane	926	30	1000	0	92.6	70-135	901.5	2.68	30		
1,2-Dichloropropane	903	30	1000	0	90.3	70-120	852	5.81	30		
1,3-Dichlorobenzene	905	30	1000	0	90.5	70-125	849	6.39	30		
1,4-Dichlorobenzene	906	30	1000	0	90.6	70-125	864.5	4.69	30		
2-Butanone	975	200	1000	0	97.5	30-160	992.5	1.78	30		
2-Hexanone	926.5	30	1000	0	92.6	45-145	903	2.57	30		
4-Methyl-2-pentanone	1440	30	1000	0	144	45-145	1374	4.69	30		
Acetone	1004	100	1000	0	100	20-160	997	0.65	30		
Benzene	931	30	1000	0	93.1	75-125	913.5	1.9	30		
Bromodichloromethane	927.5	30	1000	0	92.8	70-130	883.5	4.86	30		
Bromoform	779.5	30	1000	0	78	55-135	786.5	0.894	30		
Bromomethane	772	75	1000	0	77.2	30-160	748	3.16	30		
Carbon disulfide	948	30	1000	0	94.8	45-160	992.5	4.59	30		
Carbon tetrachloride	957.5	30	1000	0	95.8	65-135	943.5	1.47	30		
Chlorobenzene	925.5	30	1000	0	92.6	75-125	913	1.36	30		
Chloroethane	765	100	1000	0	76.5	40-155	861	11.8	30		
Chloroform	879	30	1000	0	87.9	70-125	890	1.24	30		
Chloromethane	931	100	1000	0	93.1	50-130	953.5	2.39	30		
cis-1,2-Dichloroethene	871	30	1000	0	87.1	65-125	891.5	2.33	30		
cis-1,3-Dichloropropene	895	30	1000	0	89.5	70-125	847.5	5.45	30		
Dibromochloromethane	779	30	1000	0	77.9	65-135	776	0.386	30		
Dichlorodifluoromethane	956	30	1000	0	95.6	35-135	984	2.89	30		
Ethylbenzene	956	30	1000	0	95.6	75-125	939.5	1.74	30		
Isopropylbenzene	994.5	30	1000	0	99.4	75-130	960	3.53	30		
m,p-Xylene	1890	60	2000	0	94.5	80-125	1843	2.52	30		
Methyl tert-butyl ether	1016	30	1000	0	102	75-125	969.5	4.63	30		
Methylene chloride	1008	30	1000	0	101	55-145	1006	0.298	30		
o-Xylene	952	30	1000	0	95.2	75-125	935	1.8	30		
Styrene	942.5	30	1000	0	94.2	75-125	928.5	1.5	30		
Tetrachloroethene	947.5	30	1000	0	94.8	64-140	925	2.4	30		
Toluene	932	30	1000	29.5	90.2	70-125	925	0.754	30		
trans-1,2-Dichloroethene	926	30	1000	0	92.6	65-135	947	2.24	30		
trans-1,3-Dichloropropene	872.5	30	1000	0	87.2	65-125	835	4.39	30		

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>48068</b>	Instrument ID <b>VMS7</b>			Method: <b>SW8260</b>					
Trichloroethene	918	30	1000	0	91.8	75-125	894	2.65	30
Trichlorofluoromethane	1039	30	1000	0	104	25-185	1027	1.16	30
Vinyl chloride	876	30	1000	0	87.6	60-125	884	0.909	30
Xylenes, Total	2842	90	3000	0	94.7	75-125	2778	2.28	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>993.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>969</i>	<i>2.5</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1010</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>999.5</i>	<i>0.996</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>997</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.7</i>	<i>70-130</i>	<i>962</i>	<i>3.57</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>1027</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>993</i>	<i>3.37</i>	<i>30</i>

The following samples were analyzed in this batch:

1305011-01A	1305011-02A	1305011-03A
1305011-04A		

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120319A**      Instrument ID **VMS6**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKW1-130507-R120319A</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/7/2013 05:45 PM</b>		
Client ID:		Run ID: <b>VMS6_130507A</b>				SeqNo: <b>2309112</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	7.34	20								J
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
o-Xylene	U	1.0								
Styrene	U	1.0								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>R120319A</b>	Instrument ID <b>VMS6</b>	Method: <b>SW8260</b>						
Tetrachloroethene	U	2.0						
Toluene	U	1.0						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.61</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.46</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.3</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.49</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.65</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.2</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120319A**      Instrument ID **VMS6**      Method: **SW8260**

LCS		Sample ID: <b>VLCSW1-130507-R120319A</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/7/2013 04:31 PM</b>		
Client ID:		Run ID: <b>VMS6_130507A</b>				SeqNo: <b>2309111</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.35	1.0	20	0	112	65-130	0			
1,1,2,2-Tetrachloroethane	23.01	1.0	20	0	115	65-130	0			
1,1,2-Trichloroethane	20.68	1.0	20	0	103	75-125	0			
1,1-Dichloroethane	23.05	1.0	20	0	115	70-135	0			
1,1-Dichloroethene	24.9	1.0	20	0	124	70-130	0			
1,2,4-Trichlorobenzene	19.51	1.0	20	0	97.6	65-135	0			
1,2-Dibromo-3-chloropropane	19.23	1.0	20	0	96.2	50-130	0			
1,2-Dibromoethane	23.32	1.0	20	0	117	80-120	0			
1,2-Dichlorobenzene	21.17	1.0	20	0	106	70-120	0			
1,2-Dichloroethane	21.28	1.0	20	0	106	70-130	0			
1,2-Dichloropropane	22.42	2.0	20	0	112	75-125	0			
1,3-Dichlorobenzene	21.14	2.0	20	0	106	75-125	0			
1,4-Dichlorobenzene	20.72	2.0	20	0	104	75-125	0			
2-Butanone	24.01	5.0	20	0	120	30-150	0			
2-Hexanone	23.04	5.0	20	0	115	55-130	0			
4-Methyl-2-pentanone	30.6	5.0	20	0	153	60-135	0			S
Acetone	26.78	20	20	0	134	40-140	0			
Benzene	23.05	1.0	20	0	115	80-120	0			
Bromodichloromethane	22.74	1.0	20	0	114	75-120	0			
Bromoform	16.26	1.0	20	0	81.3	70-130	0			
Bromomethane	22.43	1.0	20	0	112	30-145	0			
Carbon disulfide	24.33	2.5	20	0	122	35-165	0			
Carbon tetrachloride	21.05	1.0	20	0	105	65-140	0			
Chlorobenzene	21.38	1.0	20	0	107	80-120	0			
Chloroethane	21.85	1.0	20	0	109	60-135	0			
Chloroform	22.73	1.0	20	0	114	65-135	0			
Chloromethane	19.19	1.0	20	0	96	70-125	0			
cis-1,2-Dichloroethene	22.92	1.0	20	0	115	70-125	0			
cis-1,3-Dichloropropene	22.71	1.0	20	0	114	70-130	0			
Dibromochloromethane	16.97	1.0	20	0	84.8	60-135	0			
Dichlorodifluoromethane	18.92	1.0	20	0	94.6	30-155	0			
Ethylbenzene	23.17	1.0	20	0	116	75-125	0			
Isopropylbenzene	23.94	1.0	20	0	120	75-125	0			
m,p-Xylene	46.55	2.0	40	0	116	75-130	0			
Methyl tert-butyl ether	22.91	5.0	20	0	115	65-125	0			
Methylene chloride	23.87	5.0	20	0	119	55-140	0			
o-Xylene	21.43	1.0	20	0	107	80-120	0			
Styrene	23.11	1.0	20	0	116	65-135	0			
Tetrachloroethene	22.58	2.0	20	0	113	45-150	0			
Toluene	21.63	1.0	20	0	108	75-120	0			
trans-1,2-Dichloroethene	24.78	1.0	20	0	124	60-140	0			
trans-1,3-Dichloropropene	22.02	1.0	20	0	110	55-140	0			

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>R120319A</b>	Instrument ID <b>VMS6</b>		Method: <b>SW8260</b>				
Trichloroethene	22.6	1.0	20	0	113	70-125	0
Trichlorofluoromethane	21.76	1.0	20	0	109	60-145	0
Vinyl chloride	21.03	1.0	20	0	105	50-145	0
Xylenes, Total	67.98	3.0	60	0	113	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.08</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.4</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.05</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.61</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>85-120</i>	<i>0</i>

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120319A** Instrument ID **VMS6** Method: **SW8260**

MS Sample ID: <b>1305270-01A MS</b>				Units: <b>µg/L</b>			Analysis Date: <b>5/8/2013 01:57 AM</b>			
Client ID:		Run ID: <b>VMS6_130507A</b>		SeqNo: <b>2309125</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23.44	1.0	20	0	117	65-130	0			
1,1,2,2-Tetrachloroethane	19.54	1.0	20	0	97.7	65-130	0			
1,1,2-Trichloroethane	19.18	1.0	20	0	95.9	75-125	0			
1,1-Dichloroethane	23.51	1.0	20	0	118	70-135	0			
1,1-Dichloroethene	26.78	1.0	20	0	134	70-130	0			S
1,2,4-Trichlorobenzene	18.99	1.0	20	0	95	65-135	0			
1,2-Dibromo-3-chloropropane	16.28	1.0	20	0	81.4	50-130	0			
1,2-Dibromoethane	21.36	1.0	20	0	107	80-120	0			
1,2-Dichlorobenzene	20.18	1.0	20	0	101	70-120	0			
1,2-Dichloroethane	20.3	1.0	20	0	102	70-130	0			
1,2-Dichloropropane	22.16	2.0	20	0	111	75-125	0			
1,3-Dichlorobenzene	20.25	2.0	20	0	101	75-125	0			
1,4-Dichlorobenzene	20.03	2.0	20	0	100	75-125	0			
2-Butanone	31.69	5.0	20	0	158	30-150	0			S
2-Hexanone	26.06	5.0	20	0	130	55-130	0			S
4-Methyl-2-pentanone	24.96	5.0	20	0	125	60-135	0			
Acetone	40.83	20	20	0	204	40-140	0			S
Benzene	23.69	1.0	20	0	118	80-120	0			
Bromodichloromethane	22.47	1.0	20	0	112	75-120	0			
Bromoform	17.09	1.0	20	0	85.4	70-130	0			
Bromomethane	21.8	1.0	20	0	109	30-145	0			
Carbon disulfide	26.92	2.5	20	0	135	35-165	0			
Carbon tetrachloride	22.63	1.0	20	0	113	65-140	0			
Chlorobenzene	21.3	1.0	20	0	106	80-120	0			
Chloroethane	22.86	1.0	20	0	114	60-135	0			
Chloroform	23.04	1.0	20	0	115	65-135	0			
Chloromethane	20.3	1.0	20	0	102	70-125	0			
cis-1,2-Dichloroethene	23.01	1.0	20	0	115	70-125	0			
cis-1,3-Dichloropropene	21.85	1.0	20	0	109	70-130	0			
Dibromochloromethane	16.26	1.0	20	0	81.3	60-135	0			
Dichlorodifluoromethane	20.26	1.0	20	0	101	30-155	0			
Ethylbenzene	23.21	1.0	20	0	116	75-125	0			
Isopropylbenzene	24.34	1.0	20	0	122	75-125	0			
m,p-Xylene	46.42	2.0	40	0	116	75-130	0			
Methyl tert-butyl ether	21.36	5.0	20	0	107	65-125	0			
Methylene chloride	21.88	5.0	20	0	109	55-140	0			
o-Xylene	21.15	1.0	20	0	106	80-120	0			
Styrene	22.63	1.0	20	0	113	65-135	0			
Tetrachloroethene	38.07	2.0	20	0	190	45-150	0			S
Toluene	21.56	1.0	20	0	108	75-120	0			
trans-1,2-Dichloroethene	25.46	1.0	20	0	127	60-140	0			
trans-1,3-Dichloropropene	19.93	1.0	20	0	99.6	55-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

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Batch ID: <b>R120319A</b>	Instrument ID <b>VMS6</b>	Method: <b>SW8260</b>					
Trichloroethene	24.72	1.0	20	0	124	70-125	0
Trichlorofluoromethane	23.76	1.0	20	0	119	60-145	0
Vinyl chloride	23.91	1.0	20	0	120	50-145	0
Xylenes, Total	67.57	3.0	60	0	113	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.35</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.8</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.99</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.22</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.23</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.2</i>	<i>85-120</i>	<i>0</i>

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120319A** Instrument ID **VMS6** Method: **SW8260**

MSD Sample ID: <b>1305270-01A MSD</b>				Units: <b>µg/L</b>			Analysis Date: <b>5/8/2013 02:22 AM</b>			
Client ID:		Run ID: <b>VMS6_130507A</b>			SeqNo: <b>2309126</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.7	1.0	20	0	114	65-130	23.44	3.21	30	
1,1,2,2-Tetrachloroethane	19.62	1.0	20	0	98.1	65-130	19.54	0.409	30	
1,1,2-Trichloroethane	19.21	1.0	20	0	96	75-125	19.18	0.156	30	
1,1-Dichloroethane	22.78	1.0	20	0	114	70-135	23.51	3.15	30	
1,1-Dichloroethene	25.16	1.0	20	0	126	70-130	26.78	6.24	30	
1,2,4-Trichlorobenzene	20.52	1.0	20	0	103	65-135	18.99	7.74	30	
1,2-Dibromo-3-chloropropane	17.13	1.0	20	0	85.6	50-130	16.28	5.09	30	
1,2-Dibromoethane	21.39	1.0	20	0	107	80-120	21.36	0.14	30	
1,2-Dichlorobenzene	20.79	1.0	20	0	104	70-120	20.18	2.98	30	
1,2-Dichloroethane	19.54	1.0	20	0	97.7	70-130	20.3	3.82	30	
1,2-Dichloropropane	21.58	2.0	20	0	108	75-125	22.16	2.65	30	
1,3-Dichlorobenzene	20.82	2.0	20	0	104	75-125	20.25	2.78	30	
1,4-Dichlorobenzene	20.56	2.0	20	0	103	75-125	20.03	2.61	30	
2-Butanone	32.75	5.0	20	0	164	30-150	31.69	3.29	30	S
2-Hexanone	27.23	5.0	20	0	136	55-130	26.06	4.39	30	S
4-Methyl-2-pentanone	25.69	5.0	20	0	128	60-135	24.96	2.88	30	
Acetone	43.16	20	20	0	216	40-140	40.83	5.55	30	S
Benzene	22.52	1.0	20	0	113	80-120	23.69	5.06	30	
Bromodichloromethane	21.93	1.0	20	0	110	75-120	22.47	2.43	30	
Bromoform	17.35	1.0	20	0	86.8	70-130	17.09	1.51	30	
Bromomethane	21.55	1.0	20	0	108	30-145	21.8	1.15	30	
Carbon disulfide	25.72	2.5	20	0	129	35-165	26.92	4.56	30	
Carbon tetrachloride	21.88	1.0	20	0	109	65-140	22.63	3.37	30	
Chlorobenzene	20.71	1.0	20	0	104	80-120	21.3	2.81	30	
Chloroethane	21.96	1.0	20	0	110	60-135	22.86	4.02	30	
Chloroform	22.71	1.0	20	0	114	65-135	23.04	1.44	30	
Chloromethane	19.18	1.0	20	0	95.9	70-125	20.3	5.67	30	
cis-1,2-Dichloroethene	21.87	1.0	20	0	109	70-125	23.01	5.08	30	
cis-1,3-Dichloropropene	21.27	1.0	20	0	106	70-130	21.85	2.69	30	
Dibromochloromethane	16.6	1.0	20	0	83	60-135	16.26	2.07	30	
Dichlorodifluoromethane	19.11	1.0	20	0	95.6	30-155	20.26	5.84	30	
Ethylbenzene	22.93	1.0	20	0	115	75-125	23.21	1.21	30	
Isopropylbenzene	24.78	1.0	20	0	124	75-125	24.34	1.79	30	
m,p-Xylene	45.73	2.0	40	0	114	75-130	46.42	1.5	30	
Methyl tert-butyl ether	21.36	5.0	20	0	107	65-125	21.36	0	30	
Methylene chloride	20.77	5.0	20	0	104	55-140	21.88	5.21	30	
o-Xylene	20.78	1.0	20	0	104	80-120	21.15	1.76	30	
Styrene	22.51	1.0	20	0	113	65-135	22.63	0.532	30	
Tetrachloroethene	37.65	2.0	20	0	188	45-150	38.07	1.11	30	S
Toluene	20.82	1.0	20	0	104	75-120	21.56	3.49	30	
trans-1,2-Dichloroethene	24.28	1.0	20	0	121	60-140	25.46	4.74	30	
trans-1,3-Dichloropropene	20.13	1.0	20	0	101	55-140	19.93	0.999	30	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>R120319A</b>	Instrument ID <b>VMS6</b>			Method: <b>SW8260</b>						
Trichloroethene	22.97	1.0	20	0	115	70-125	24.72	7.34	30	
Trichlorofluoromethane	23.09	1.0	20	0	115	60-145	23.76	2.86	30	
Vinyl chloride	22.22	1.0	20	0	111	50-145	23.91	7.33	30	
Xylenes, Total	66.51	3.0	60	0	111	75-130	67.57	1.58	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.96</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>70-120</i>	<i>19.35</i>	<i>3.1</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>21.23</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>75-120</i>	<i>19.99</i>	<i>6.02</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>21.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>85-115</i>	<i>20.22</i>	<i>4.92</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>20.23</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>19.23</i>	<i>5.07</i>	<i>30</i>	

The following samples were analyzed in this batch:

1305011-07A	1305011-08A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120319B**      Instrument ID **VMS6**      Method: **SW8260GRO**

<b>MBLK</b>		Sample ID: <b>VBLKW1-130507-R120319B</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/7/2013 05:45 PM</b>		
Client ID:		Run ID: <b>VMS6_130507A</b>				SeqNo: <b>2309244</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	33.4	100								J
<i>Surr: Toluene-d8</i>	<i>19.52</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>70-120</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>VLCSW2-130507-R120319B</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/7/2013 04:56 PM</b>		
Client ID:		Run ID: <b>VMS6_130507A</b>				SeqNo: <b>2309243</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	462	100	500	0	92.4	70-130	0			
<i>Surr: Toluene-d8</i>	<i>19.45</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>			

The following samples were analyzed in this batch:      | 1305011-07A      1305011-08A      |

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

# QC BATCH REPORT

Batch ID: **R120347**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKS1-130508-R120347</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/8/2013 12:44 PM</b>		
Client ID:		Run ID: <b>VMS7_130508A</b>				SeqNo: <b>2310398</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	3.66	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>R120347</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>
Tetrachloroethene	U	5.0
Toluene	U	5.0
trans-1,2-Dichloroethene	U	5.0
trans-1,3-Dichloropropene	U	10
Trichloroethene	U	5.0
Trichlorofluoromethane	U	5.0
Vinyl chloride	U	5.0
Xylenes, Total	U	5.0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.67</i>	<i>0 20 0 98.4 70-120 0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.91</i>	<i>0 20 0 99.6 75-120 0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.24</i>	<i>0 20 0 96.2 85-115 0</i>
<i>Surr: Toluene-d8</i>	<i>19.42</i>	<i>0 20 0 97.1 85-120 0</i>

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



**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

# QC BATCH REPORT

Batch ID: **R120347**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>VLCSS2-130508-R120347</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/8/2013 11:38 AM</b>			
Client ID:		Run ID: <b>VMS7_130508A</b>			SeqNo: <b>2310397</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.22	5.0	20	0	91.1	70-135	0			
1,1,2,2-Tetrachloroethane	16.77	5.0	20	0	83.8	55-130	0			
1,1,2-Trichloroethane	16.51	5.0	20	0	82.6	60-125	0			
1,1-Dichloroethane	19.25	5.0	20	0	96.2	75-125	0			
1,1-Dichloroethene	19.35	5.0	20	0	96.8	65-135	0			
1,2,4-Trichlorobenzene	18.06	5.0	20	0	90.3	65-130	0			
1,2-Dibromo-3-chloropropane	16.83	5.0	20	0	84.2	40-135	0			
1,2-Dibromoethane	19	5.0	20	0	95	70-125	0			
1,2-Dichlorobenzene	17.22	5.0	20	0	86.1	75-120	0			
1,2-Dichloroethane	17.04	5.0	20	0	85.2	70-135	0			
1,2-Dichloropropane	18.05	5.0	20	0	90.2	70-120	0			
1,3-Dichlorobenzene	17.07	5.0	20	0	85.4	70-125	0			
1,4-Dichlorobenzene	17.11	5.0	20	0	85.6	70-125	0			
2-Butanone	22.22	10	20	0	111	30-160	0			
2-Hexanone	17.97	5.0	20	0	89.8	45-145	0			
4-Methyl-2-pentanone	21.16	5.0	20	0	106	45-145	0			
Acetone	19.11	10	20	0	95.6	20-160	0			
Benzene	18.97	5.0	20	0	94.8	75-125	0			
Bromodichloromethane	16.94	5.0	20	0	84.7	70-130	0			
Bromoform	14.84	5.0	20	0	74.2	55-135	0			
Bromomethane	25.86	10	20	0	129	30-160	0			
Carbon disulfide	22.53	5.0	20	0	113	45-160	0			
Carbon tetrachloride	20.03	5.0	20	0	100	65-135	0			
Chlorobenzene	17.29	5.0	20	0	86.4	75-125	0			
Chloroethane	26.53	5.0	20	0	133	40-155	0			
Chloroform	19.06	5.0	20	0	95.3	70-125	0			
Chloromethane	29.82	10	20	0	149	50-130	0			S
cis-1,2-Dichloroethene	19.63	5.0	20	0	98.2	65-125	0			
cis-1,3-Dichloropropene	17.89	5.0	20	0	89.4	70-125	0			
Dibromochloromethane	15.14	5.0	20	0	75.7	65-135	0			
Dichlorodifluoromethane	46.29	10	20	0	231	35-135	0			S
Ethylbenzene	17.7	5.0	20	0	88.5	75-125	0			
Isopropylbenzene	17.4	5.0	20	0	87	75-130	0			
m,p-Xylene	35.58	2.5	40	0	89	80-125	0			
Methyl tert-butyl ether	17.37	5.0	20	0	86.8	75-125	0			
Methylene chloride	26.23	5.0	20	0	131	55-140	0			
o-Xylene	17.87	2.5	20	0	89.4	75-125	0			
Styrene	17.48	5.0	20	0	87.4	75-125	0			
Tetrachloroethene	18.54	5.0	20	0	92.7	65-140	0			
Toluene	17.64	5.0	20	0	88.2	70-125	0			
trans-1,2-Dichloroethene	20.26	5.0	20	0	101	65-135	0			
trans-1,3-Dichloropropene	17.21	10	20	0	86	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

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Batch ID: <b>R120347</b>	Instrument ID <b>VMS7</b>			Method: <b>SW8260</b>			
Trichloroethene	19.45	5.0	20	0	97.2	75-125	0
Trichlorofluoromethane	20.43	5.0	20	0	102	25-185	0
Vinyl chloride	24.88	5.0	20	0	124	60-125	0
Xylenes, Total	53.45	5.0	60	0	89.1	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.41</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.97</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.11</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.84</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>85-120</i>	<i>0</i>

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120347** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: <b>1305174-40A MS</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/8/2013 08:46 PM</b>			
Client ID:		Run ID: <b>VMS7_130508A</b>		SeqNo: <b>2311995</b>		Prep Date:		DF: <b>1.49</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.02	7.4	29.8	0	70.6	70-135	0			
1,1,2,2-Tetrachloroethane	15.51	7.4	29.8	0	52	55-130	0			S
1,1,2-Trichloroethane	16.81	7.4	29.8	0	56.4	60-125	0			S
1,1-Dichloroethane	22.59	7.4	29.8	0	75.8	75-125	0			
1,1-Dichloroethene	23.75	7.4	29.8	0	79.7	65-135	0			
1,2,4-Trichlorobenzene	4.753	7.4	29.8	0	16	65-130	0			JS
1,2-Dibromo-3-chloropropane	10.83	7.4	29.8	0	36.4	40-135	0			S
1,2-Dibromoethane	17.69	7.4	29.8	0	59.4	70-125	0			S
1,2-Dichlorobenzene	8.404	7.4	29.8	0	28.2	75-120	0			S
1,2-Dichloroethane	19.68	7.4	29.8	0	66	70-135	0			S
1,2-Dichloropropane	20.26	7.4	29.8	0	68	70-120	0			S
1,3-Dichlorobenzene	9.074	7.4	29.8	0	30.4	70-125	0			S
1,4-Dichlorobenzene	8.24	7.4	29.8	0	27.6	70-125	0			S
2-Butanone	33.39	15	29.8	0	112	30-160	0			
2-Hexanone	19.79	7.4	29.8	0	66.4	45-145	0			
4-Methyl-2-pentanone	25.67	7.4	29.8	0	86.2	45-145	0			
Acetone	47.5	15	29.8	8.027	132	20-160	0			
Benzene	26.15	7.4	29.8	0	87.8	75-125	0			
Bromodichloromethane	17.11	7.4	29.8	0	57.4	70-130	0			S
Bromoform	10.24	7.4	29.8	0	34.4	55-135	0			S
Bromomethane	15.15	15	29.8	0	50.8	30-160	0			
Carbon disulfide	24.54	7.4	29.8	0	82.4	45-160	0			
Carbon tetrachloride	21.23	7.4	29.8	0	71.2	65-135	0			
Chlorobenzene	13.83	7.4	29.8	0	46.4	75-125	0			S
Chloroethane	27.36	7.4	29.8	0	91.8	40-155	0			
Chloroform	21.66	7.4	29.8	0	72.7	70-125	0			
Chloromethane	31.86	15	29.8	0	107	50-130	0			
cis-1,2-Dichloroethene	21.28	7.4	29.8	0	71.4	65-125	0			
cis-1,3-Dichloropropene	16.6	7.4	29.8	0	55.7	70-125	0			S
Dibromochloromethane	12.49	7.4	29.8	0	41.9	65-135	0			S
Dichlorodifluoromethane	52	15	29.8	0	174	35-135	0			S
Ethylbenzene	16.78	7.4	29.8	0	56.3	75-125	0			S
Isopropylbenzene	15.91	7.4	29.8	0	53.4	75-130	0			S
m,p-Xylene	31.1	3.7	59.6	0	52.2	80-125	0			S
Methyl tert-butyl ether	22.34	7.4	29.8	0	75	75-125	0			S
Methylene chloride	25.51	7.4	29.8	0.4478	84.1	55-140	0			
o-Xylene	15.5	3.7	29.8	0	52	75-125	0			S
Styrene	11.31	7.4	29.8	0	38	75-125	0			S
Tetrachloroethene	17.64	7.4	29.8	0	59.2	65-140	0			S
Toluene	17.79	7.4	29.8	0	59.7	70-125	0			S
trans-1,2-Dichloroethene	22.07	7.4	29.8	0	74	65-135	0			
trans-1,3-Dichloropropene	14.02	15	29.8	0	47	65-125	0			JS

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>R120347</b>		Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	20.14	7.4	29.8	0	67.6	75-125	0	S
Trichlorofluoromethane	25.78	7.4	29.8	0	86.5	25-185	0	
Vinyl chloride	29.11	7.4	29.8	0	97.7	60-125	0	
Xylenes, Total	46.59	7.4	89.4	0	52.1	75-125	0	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>37.24</i>	<i>0</i>	<i>29.8</i>	<i>0</i>	<i>125</i>	<i>70-120</i>	<i>0</i>	<i>S</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>32.36</i>	<i>0</i>	<i>29.8</i>	<i>0</i>	<i>109</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>35.7</i>	<i>0</i>	<i>29.8</i>	<i>0</i>	<i>120</i>	<i>85-115</i>	<i>0</i>	<i>S</i>
<i>Surr: Toluene-d8</i>	<i>33.05</i>	<i>0</i>	<i>29.8</i>	<i>0</i>	<i>111</i>	<i>85-120</i>	<i>0</i>	

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

Client: Tetra Tech  
 Work Order: 1305011  
 Project: Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: **R120347** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: <b>1305174-40A MSD</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/8/2013 09:14 PM</b>			
Client ID:		Run ID: <b>VMS7_130508A</b>		SeqNo: <b>2311996</b>		Prep Date:		DF: <b>1.06</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	17.13	5.3	21.2	0	80.8	70-135	21.02	20.4	30	
1,1,2,2-Tetrachloroethane	16.84	5.3	21.2	0	79.4	55-130	15.51	8.24	30	
1,1,2-Trichloroethane	16.19	5.3	21.2	0	76.4	60-125	16.81	3.76	30	
1,1-Dichloroethane	18.72	5.3	21.2	0	88.3	75-125	22.59	18.7	30	
1,1-Dichloroethene	18.32	5.3	21.2	0	86.4	65-135	23.75	25.8	30	
1,2,4-Trichlorobenzene	8.321	5.3	21.2	0	39.2	65-130	4.753	54.6	30	SR
1,2-Dibromo-3-chloropropane	15.05	5.3	21.2	0	71	40-135	10.83	32.6	30	R
1,2-Dibromoethane	17.71	5.3	21.2	0	83.6	70-125	17.69	0.149	30	
1,2-Dichlorobenzene	11.4	5.3	21.2	0	53.8	75-120	8.404	30.2	30	SR
1,2-Dichloroethane	17.91	5.3	21.2	0	84.5	70-135	19.68	9.41	30	
1,2-Dichloropropane	17.96	5.3	21.2	0	84.7	70-120	20.26	12.1	30	
1,3-Dichlorobenzene	10.93	5.3	21.2	0	51.6	70-125	9.074	18.5	30	S
1,4-Dichlorobenzene	10.79	5.3	21.2	0	50.9	70-125	8.24	26.8	30	S
2-Butanone	32.94	11	21.2	0	155	30-160	33.39	1.34	30	
2-Hexanone	21.65	5.3	21.2	0	102	45-145	19.79	8.97	30	
4-Methyl-2-pentanone	24.66	5.3	21.2	0	116	45-145	25.67	4.04	30	
Acetone	68.25	11	21.2	8.027	284	20-160	47.5	35.9	30	SR
Benzene	20.28	5.3	21.2	0	95.6	75-125	26.15	25.3	30	
Bromodichloromethane	14.82	5.3	21.2	0	69.9	70-130	17.11	14.3	30	S
Bromoform	11.94	5.3	21.2	0	56.3	55-135	10.24	15.3	30	
Bromomethane	18.35	11	21.2	0	86.6	30-160	15.15	19.1	30	
Carbon disulfide	19.47	5.3	21.2	0	91.8	45-160	24.54	23	30	
Carbon tetrachloride	17.64	5.3	21.2	0	83.2	65-135	21.23	18.5	30	
Chlorobenzene	13.65	5.3	21.2	0	64.4	75-125	13.83	1.27	30	S
Chloroethane	25.37	5.3	21.2	0	120	40-155	27.36	7.55	30	
Chloroform	17.99	5.3	21.2	0	84.8	70-125	21.66	18.5	30	
Chloromethane	26.78	11	21.2	0	126	50-130	31.86	17.3	30	
cis-1,2-Dichloroethene	17.94	5.3	21.2	0	84.6	65-125	21.28	17	30	
cis-1,3-Dichloropropene	15.51	5.3	21.2	0	73.2	70-125	16.6	6.79	30	
Dibromochloromethane	12.48	5.3	21.2	0	58.8	65-135	12.49	0.0801	30	S
Dichlorodifluoromethane	41.59	11	21.2	0	196	35-135	52	22.2	30	S
Ethylbenzene	14.76	5.3	21.2	0	69.6	75-125	16.78	12.8	30	S
Isopropylbenzene	14.35	5.3	21.2	0	67.7	75-130	15.91	10.3	30	S
m,p-Xylene	29.15	2.6	42.4	0	68.8	80-125	31.1	6.46	30	S
Methyl tert-butyl ether	18.89	5.3	21.2	0	89.1	75-125	22.34	16.7	30	
Methylene chloride	21.06	5.3	21.2	0.4478	97.2	55-140	25.51	19.1	30	
o-Xylene	14.85	2.6	21.2	0	70	75-125	15.5	4.25	30	S
Styrene	12.76	5.3	21.2	0	60.2	75-125	11.31	12.1	30	S
Tetrachloroethene	15.33	5.3	21.2	0	72.3	65-140	17.64	14	30	
Toluene	15.41	5.3	21.2	0	72.7	70-125	17.79	14.3	30	
trans-1,2-Dichloroethene	18.44	5.3	21.2	0	87	65-135	22.07	17.9	30	
trans-1,3-Dichloropropene	13.79	11	21.2	0	65	65-125	14.02	1.66	30	

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

## QC BATCH REPORT

Batch ID: <b>R120347</b>	Instrument ID <b>VMS7</b>			Method: <b>SW8260</b>					
Trichloroethene	16.93	5.3	21.2	0	79.8	75-125	20.14	17.4	30
Trichlorofluoromethane	19.68	5.3	21.2	0	92.8	25-185	25.78	26.8	30
Vinyl chloride	23.11	5.3	21.2	0	109	60-125	29.11	23	30
Xylenes, Total	44	5.3	63.6	0	69.2	75-125	46.59	5.72	30 S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>26.3</i>	<i>0</i>	<i>21.2</i>	<i>0</i>	<i>124</i>	<i>70-120</i>	<i>37.24</i>	<i>34.4</i>	<i>30 SR</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>23.93</i>	<i>0</i>	<i>21.2</i>	<i>0</i>	<i>113</i>	<i>75-120</i>	<i>32.36</i>	<i>29.9</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>25.06</i>	<i>0</i>	<i>21.2</i>	<i>0</i>	<i>118</i>	<i>85-115</i>	<i>35.7</i>	<i>35</i>	<i>30 SR</i>
<i>Surr: Toluene-d8</i>	<i>23.46</i>	<i>0</i>	<i>21.2</i>	<i>0</i>	<i>111</i>	<i>85-120</i>	<i>33.05</i>	<i>33.9</i>	<i>30 R</i>

The following samples were analyzed in this batch:

1305011-01A	1305011-02A	1305011-03A
1305011-04A		

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

**Client:** Tetra Tech  
**Work Order:** 1305011  
**Project:** Municipal Farms-LaFarge Concrete Plant 4/26/13

# QC BATCH REPORT

Batch ID: **R119997**      Instrument ID **MOIST**      Method: **A2540 G**

MBLK				Sample ID: WBLKS-R119997				Units: % of sample				Analysis Date: 5/1/2013 11:30 AM									
Client ID:				Run ID: MOIST_130501B				SeqNo: 2301190				Prep Date:				DF: 1					
Analyte		Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture      U      0.050

LCS				Sample ID: LCS-R119997				Units: % of sample				Analysis Date: 5/1/2013 11:30 AM									
Client ID:				Run ID: MOIST_130501B				SeqNo: 2301180				Prep Date:				DF: 1					
Analyte		Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture      100      0.050      100      0      100      99.5-100.5      0

<b>DUP</b>				Sample ID: <b>13041169-22B DUP</b>				Units: % of sample			Analysis Date: <b>5/1/2013 11:30 AM</b>			
Client ID:				Run ID: <b>MOIST_130501B</b>				SeqNo: <b>2301129</b>			Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture      16.23      0.050      0      0      0      0-0      16.19      0.247      20

<b>DUP</b>				Sample ID: <b>13041176-06A DUP</b>				Units: % of sample			Analysis Date: <b>5/1/2013 11:30 AM</b>			
Client ID:				Run ID: <b>MOIST_130501B</b>				SeqNo: <b>2301149</b>			Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture      73.11      0.050      0      0      0      0-0      72.33      1.07      20

The following samples were analyzed in this batch:

1305011-01B	1305011-02B	1305011-03B
1305011-04B	1305011-05A	1305011-06A

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



**Environmental**

Cincinnati, OH  
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Holland, MI  
+1 616 399 6070

# Chain of Custody Form

Page 1 of 1

COC ID: 69744

Houston, TX  
+1 281 530 5656

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Spring City, PA  
+1 610 948 4903

Salt Lake City, UT  
+1 801 266 7700

South Charleston, WV  
+1 304 356 3168

York, PA  
+1 717 505 5280

Customer Information				Project Information				ALS Project Manager: _____ ALS Work Order #: 1305011																									
Purchase Order		Project Name		Project Number		Bill To Company		Invoice Attn		Address		City/State/Zip		Phone		Fax		e-Mail Address		Parameter/Method Request for Analysis													
		Municipal Farm Lafarge				Concrete Plant		Tetra Tech		Emily Fisher		415 Oak Street		Kansas City, MO 64106		(816) 412-1755		(816) 410-1748				<div style="display: flex; justify-content: space-between;"> <div>A</div> <div>TCL Volatiles with GRO (C6-C10)</div> </div>											
Work Order																						<div style="display: flex; justify-content: space-between;"> <div>B</div> <div>SVols with DRO (C10-C21), ORO (C21-C35)</div> </div>											
Company Name		Tetra Tech																				<div style="display: flex; justify-content: space-between;"> <div>C</div> <div>RCRA 8 Metals-Total</div> </div>											
Send Report To		Emily Fisher																				<div style="display: flex; justify-content: space-between;"> <div>D</div> <div>% Moisture</div> </div>											
Address		415 Oak Street																				<div style="display: flex; justify-content: space-between;"> <div>E</div> <div>RCRA 8 Metals-Dissolved</div> </div>											
																						<div style="display: flex; justify-content: space-between;"> <div>F</div> <div>Project Specific MS/MSD on this sample point</div> </div>											
City/State/Zip		Kansas City, MO 64106																				<div style="display: flex; justify-content: space-between;"> <div>G</div> <div>TDS Only</div> </div>											
Phone		(816) 412-1755																				<div style="display: flex; justify-content: space-between;"> <div>H</div> <div>Lead Only</div> </div>											
Fax		(816) 410-1748																				<div style="display: flex; justify-content: space-between;"> <div>I</div> <div>Grain Size</div> </div>											
e-Mail Address																						<div style="display: flex; justify-content: space-between;"> <div>J</div> <div></div> </div>											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LCBP-SF-001	4/26/13	1050	SD	2-Meth 2-5	6	X	X	X		X						
2	LCBP-SF-002	4/26/13	1110	SD		6	X	X	X		X						
3	LCBP-SF-003	4/26/13	1120	SD		6	X	X	X		X						
4	LCBP-SF-004	4/26/13	1130	SD	✓	6	X	X	X		X						
5	LCBP-SF-005	4/26/13	1140	SD	None	1									X		
6	LCBP-SL-002	4/29/13	1115	SD	None	1										X	
7	LCBP-WA-FB	4/29/13	1130	WA	3-1 2-2	7	X	X	X		X						
8	LCBP-WA-ERB	4/29/13	1135	WA	↓	7	X	X	X		X						
9																	
10																	

Sampler(s) Please Print & Sign <i>Bryan Erickson</i>			Shipment Method <i>Fed Ex</i>		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>[Signature]</i>		Date: 4/29/13	Time: 1630	Received by:		Notes:				
Relinquished by:		Date: 04/30/13	Time: 1000	Received by (Laboratory): <i>[Signature]</i>		Cooler ID		Cooler Temp. 5.1C	QC Package: (Check One Box Below)	
Logged by (Laboratory): <i>KE</i>		Date: 5/1/13	Time: 0730	Checked by (Laboratory): <i>[Signature]</i>					<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other	
Preservative Key: 1-HCl   2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH   5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other   8-4°C   9-5035										

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: **TETRATECH - MO**

Date/Time Received: **30-Apr-13 10:00**

Work Order: **1305011**

Received by: **KRW**

Checklist completed by Keith Wurenga 01-May-13  
eSignature Date

Reviewed by: Ann Preston 01-May-13  
eSignature Date

Matrices: **Water & Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.4 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>5/1/2013 8:21:26 AM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

-----

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ORIGIN ID: MKCA (816) 421-1741  
BRYAN ERICKSON  
TETRA TECH  
415 OAK STREET

KANSAS CITY, MO 64106  
UNITED STATES US

SHIP DATE: 29APR13  
ACTWGT: 40.0 LB MAN  
CAD: 468185/CAFE2608

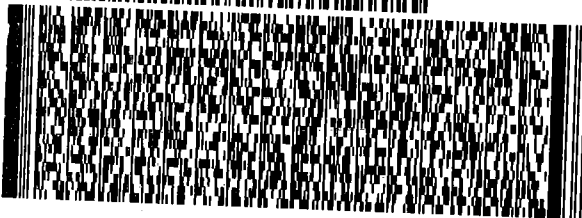
BILL SENDER

ANN PRESTON  
ALS ENVIRONMENTAL  
3352 128TH AVENUE

HOLLAND MI 49424

(816) 738-7346

REF: 103DX9004L060000150222



FedEx  
Express



TRK# 4465 1406 6350  
0201

TUE - 30 APR 10:30  
PRIORITY OVERNIGHT

NA GRRA

49424  
MI-US GRR



Part # 156148-434 RIT2 01/12

SL2C1/9983/CF68

EPA FORM  
7500-2(M7-75)

DATE	
SEAL BROKEN BY	
DATE	4/29/13
SAMPLE NO.	
SIGNATURE	
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICIAL SAMPLE SEAL	



09-May-2013

Emily Fisher  
Tetra Tech  
415 Oak Street  
Kansas City, MO 64106

Re: **Municipal Farms Lafarge Concrete Plt 4.23-4.24.13**

Work Order: **13041107**

Dear Emily,

ALS Environmental received 26 samples on 26-Apr-2013 10:00 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.

Sample results are compliant with NELAP standard requirements and QC results achieved 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 Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 206.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Work Order:** 13041107

## Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13041107-01	LCBP-WA-001	Water		4/23/2013 13:20	4/26/2013 10:00	<input type="checkbox"/>
13041107-02	LCBP-SW-001	Water		4/23/2013 13:40	4/26/2013 10:00	<input type="checkbox"/>
13041107-03	LCBP-SD-001	Sediment		4/23/2013 13:55	4/26/2013 10:00	<input type="checkbox"/>
13041107-04	LCBP-SW-002	Water		4/23/2013 14:10	4/26/2013 10:00	<input type="checkbox"/>
13041107-05	LCBP-SD-002	Sediment		4/23/2013 14:30	4/26/2013 10:00	<input type="checkbox"/>
13041107-06	LCBP-SS-001	Soil		4/24/2013 09:50	4/26/2013 10:00	<input type="checkbox"/>
13041107-07	LCBP-SS-002	Soil		4/24/2013 10:10	4/26/2013 10:00	<input type="checkbox"/>
13041107-08	LCBP-SS-002A	Soil		4/24/2013 10:20	4/26/2013 10:00	<input type="checkbox"/>
13041107-09	LCBP-SS-003	Soil		4/24/2013 11:30	4/26/2013 10:00	<input type="checkbox"/>
13041107-10	LCBP-SS-003A	Soil		4/24/2013 11:35	4/26/2013 10:00	<input type="checkbox"/>
13041107-11	LCBP-SS-004	Soil		4/24/2013 11:55	4/26/2013 10:00	<input type="checkbox"/>
13041107-12	LCBP-SS-004A	Soil		4/24/2013 11:55	4/26/2013 10:00	<input type="checkbox"/>
13041107-13	LCBP-SS-005	Soil		4/24/2013 13:20	4/26/2013 10:00	<input type="checkbox"/>
13041107-14	LCBP-SS-005A	Soil		4/24/2013 13:20	4/26/2013 10:00	<input type="checkbox"/>
13041107-15	LCBP-SS-006	Soil		4/24/2013 13:45	4/26/2013 10:00	<input type="checkbox"/>
13041107-16	LCBP-SS-006A	Soil		4/24/2013 13:45	4/26/2013 10:00	<input type="checkbox"/>
13041107-17	LCBP-SS-007	Soil		4/24/2013 14:50	4/26/2013 10:00	<input type="checkbox"/>
13041107-18	LCBP-SS-007A	Soil		4/24/2013 14:50	4/26/2013 10:00	<input type="checkbox"/>
13041107-19	LCBP-GW-007	Water		4/24/2013 15:30	4/26/2013 10:00	<input type="checkbox"/>
13041107-20	LCBP-SS-008	Soil		4/25/2013 10:10	4/26/2013 10:00	<input type="checkbox"/>
13041107-21	LCBP-SS-008A	Soil		4/25/2013 10:20	4/26/2013 10:00	<input type="checkbox"/>
13041107-22	LCBP-SS-009	Soil		4/25/2013 11:05	4/26/2013 10:00	<input type="checkbox"/>
13041107-23	LCBP-SS-010	Soil		4/25/2013 13:05	4/26/2013 10:00	<input type="checkbox"/>
13041107-24	LCBP-SC-001	Soil		4/25/2013 13:40	4/26/2013 10:00	<input type="checkbox"/>
13041107-25	Trip Blank Water	Water		4/24/2013	4/26/2013 10:00	<input type="checkbox"/>
13041107-26	Trip Blank Soil	Soil		4/24/2013	4/26/2013 10:00	<input type="checkbox"/>

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**WorkOrder:** 13041107

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	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

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
% Passing	Percent Passing
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-WA-001  
**Collection Date:** 4/23/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-01  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7470		Prep: SW7470 / 5/1/13		Analyst: LR
Mercury	U		0.00010	0.00020	mg/L	1	5/1/2013 15:25
<b>MERCURY BY CVAA (DISSOLVED)</b>							
			Method:SW7470		Prep: SW7470 / 5/1/13		Analyst: LR
Mercury	U		0.00010	0.00020	mg/L	1	5/1/2013 15:33
<b>METALS BY ICP-MS</b>							
			Method:SW6020A		Prep: SW3005A / 5/2/13		Analyst: RH
Arsenic	U		0.00058	0.0050	mg/L	1	5/3/2013 20:27
Barium	0.045		0.000063	0.0050	mg/L	1	5/3/2013 20:27
Cadmium	0.00024	J	0.000045	0.0020	mg/L	1	5/3/2013 20:27
Chromium	0.00050	J	0.00027	0.0050	mg/L	1	5/3/2013 20:27
Lead	0.00032	J	0.000051	0.0030	mg/L	1	5/3/2013 20:27
Selenium	0.0054		0.00064	0.0050	mg/L	1	5/3/2013 20:27
Silver	U		0.000042	0.00020	mg/L	1	5/3/2013 20:27
<b>METALS BY ICP-MS (DISSOLVED)</b>							
			Method:SW6020A				Analyst: RH
Arsenic	U		0.00058	0.0050	mg/L	1	5/2/2013 01:00
Barium	0.043		0.000063	0.0050	mg/L	1	5/2/2013 01:00
Cadmium	0.00023	J	0.000045	0.0020	mg/L	1	5/2/2013 01:00
Chromium	0.00035	J	0.00027	0.0050	mg/L	1	5/2/2013 01:00
Lead	0.00018	J	0.000051	0.0030	mg/L	1	5/2/2013 01:00
Selenium	0.0062		0.00064	0.0050	mg/L	1	5/2/2013 01:00
Silver	U		0.000042	0.00020	mg/L	1	5/2/2013 01:00
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270		Prep: SW3510 / 4/29/13		Analyst: RM
DRO (C10-C21)	U		0.013	0.10	mg/L	1	5/5/2013 18:21
ORO (C21-C35)	U		0.027	0.10	mg/L	1	5/5/2013 18:21
Surr: 4-Terphenyl-d14	73.6			23-112	%REC	1	5/5/2013 18:21
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270		Prep: SW3510 / 4/29/13		Analyst: HL
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	4/30/2013 13:23
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	4/30/2013 13:23
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	4/30/2013 13:23
2,4-Dichlorophenol	U		0.22	10	µg/L	1	4/30/2013 13:23
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	4/30/2013 13:23
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	4/30/2013 13:23
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	4/30/2013 13:23
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	4/30/2013 13:23
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 13:23
2-Chlorophenol	U		0.73	5.0	µg/L	1	4/30/2013 13:23
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 13:23
2-Methylphenol	U		0.60	5.0	µg/L	1	4/30/2013 13:23

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-WA-001  
**Collection Date:** 4/23/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-01  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Nitroaniline	U		0.11	20	µg/L	1	4/30/2013 13:23
2-Nitrophenol	U		0.19	5.0	µg/L	1	4/30/2013 13:23
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	4/30/2013 13:23
3-Nitroaniline	U		2.5	20	µg/L	1	4/30/2013 13:23
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	4/30/2013 13:23
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 13:23
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	4/30/2013 13:23
4-Chloroaniline	U		1.1	20	µg/L	1	4/30/2013 13:23
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 13:23
4-Methylphenol	U		0.55	5.0	µg/L	1	4/30/2013 13:23
4-Nitroaniline	U		1.5	20	µg/L	1	4/30/2013 13:23
4-Nitrophenol	U		1.6	20	µg/L	1	4/30/2013 13:23
Acenaphthene	U		0.11	5.0	µg/L	1	4/30/2013 13:23
Acenaphthylene	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Acetophenone	U		0.090	1.0	µg/L	1	4/30/2013 13:23
Anthracene	U		0.72	5.0	µg/L	1	4/30/2013 13:23
Atrazine	U		3.2	10	µg/L	1	4/30/2013 13:23
Benzaldehyde	U		0.46	1.0	µg/L	1	4/30/2013 13:23
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	4/30/2013 13:23
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	4/30/2013 13:23
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	4/30/2013 13:23
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	4/30/2013 13:23
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	4/30/2013 13:23
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	4/30/2013 13:23
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	4/30/2013 13:23
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	4/30/2013 13:23
Caprolactam	U		4.7	10	µg/L	1	4/30/2013 13:23
Carbazole	U		0.84	10	µg/L	1	4/30/2013 13:23
Chrysene	U		0.71	5.0	µg/L	1	4/30/2013 13:23
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	4/30/2013 13:23
Dibenzofuran	U		0.11	5.0	µg/L	1	4/30/2013 13:23
<b>Diethyl phthalate</b>	<b>1.2</b>	<b>J</b>	<b>0.69</b>	<b>20</b>	<b>µg/L</b>	1	4/30/2013 13:23
Dimethyl phthalate	U		0.14	20	µg/L	1	4/30/2013 13:23
<b>Di-n-butyl phthalate</b>	<b>1.8</b>	<b>J</b>	<b>0.71</b>	<b>5.0</b>	<b>µg/L</b>	1	4/30/2013 13:23
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Fluoranthene	U		0.77	5.0	µg/L	1	4/30/2013 13:23
Fluorene	U		0.10	5.0	µg/L	1	4/30/2013 13:23
Hexachlorobenzene	U		0.10	5.0	µg/L	1	4/30/2013 13:23

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-WA-001  
**Collection Date:** 4/23/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-01  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	4/30/2013 13:23
Hexachloroethane	U		0.13	5.0	µg/L	1	4/30/2013 13:23
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	4/30/2013 13:23
Isophorone	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Naphthalene	U		0.12	5.0	µg/L	1	4/30/2013 13:23
Nitrobenzene	U		0.10	5.0	µg/L	1	4/30/2013 13:23
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	4/30/2013 13:23
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	4/30/2013 13:23
Pentachlorophenol	U		0.11	20	µg/L	1	4/30/2013 13:23
Phenanthrene	U		0.86	5.0	µg/L	1	4/30/2013 13:23
Phenol	U		0.094	5.0	µg/L	1	4/30/2013 13:23
Pyrene	U		0.65	5.0	µg/L	1	4/30/2013 13:23
Surr: 2,4,6-Tribromophenol	58.1			32-115	%REC	1	4/30/2013 13:23
Surr: 2-Fluorobiphenyl	58.8			32-100	%REC	1	4/30/2013 13:23
Surr: 2-Fluorophenol	38.7			22-59	%REC	1	4/30/2013 13:23
Surr: 4-Terphenyl-d14	87.3			23-112	%REC	1	4/30/2013 13:23
Surr: Nitrobenzene-d5	46.5			31-93	%REC	1	4/30/2013 13:23
Surr: Phenol-d6	19.3			13-36	%REC	1	4/30/2013 13:23
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>			Analyst: <b>AK</b>	
GRO (C6-C10)	U		25	100	µg/L	1	4/28/2013 13:58
Surr: Toluene-d8	97.5			70-130	%REC	1	4/28/2013 13:58
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>			Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	5/3/2013 04:17
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	5/3/2013 04:17
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	5/3/2013 04:17
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	5/3/2013 04:17
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	5/3/2013 04:17
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	5/3/2013 04:17
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	5/3/2013 04:17
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	5/3/2013 04:17
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	5/3/2013 04:17
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	5/3/2013 04:17
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	5/3/2013 04:17
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	5/3/2013 04:17
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	5/3/2013 04:17
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	5/3/2013 04:17
2-Butanone	U		0.22	5.0	µg/L	1	5/3/2013 04:17
2-Hexanone	U		0.12	5.0	µg/L	1	5/3/2013 04:17

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-WA-001  
**Collection Date:** 4/23/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-01  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	5/3/2013 04:17
Acetone	U		0.33	20	µg/L	1	5/3/2013 04:17
Benzene	U		0.18	1.0	µg/L	1	5/3/2013 04:17
Bromodichloromethane	U		0.12	1.0	µg/L	1	5/3/2013 04:17
Bromoform	U		0.15	1.0	µg/L	1	5/3/2013 04:17
Bromomethane	U		0.21	1.0	µg/L	1	5/3/2013 04:17
Carbon disulfide	U		0.17	2.5	µg/L	1	5/3/2013 04:17
Carbon tetrachloride	U		0.12	1.0	µg/L	1	5/3/2013 04:17
Chlorobenzene	U		0.13	1.0	µg/L	1	5/3/2013 04:17
Chloroethane	U		0.46	1.0	µg/L	1	5/3/2013 04:17
Chloroform	U		0.15	1.0	µg/L	1	5/3/2013 04:17
Chloromethane	U		0.16	1.0	µg/L	1	5/3/2013 04:17
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	5/3/2013 04:17
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	5/3/2013 04:17
Cyclohexane	U		0.22	5.0	µg/L	1	5/3/2013 04:17
Dibromochloromethane	U		0.13	1.0	µg/L	1	5/3/2013 04:17
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	5/3/2013 04:17
Ethylbenzene	U		0.13	1.0	µg/L	1	5/3/2013 04:17
Isopropylbenzene	U		0.14	1.0	µg/L	1	5/3/2013 04:17
m,p-Xylene	U		0.20	2.0	µg/L	1	5/3/2013 04:17
Methyl acetate	U		0.19	2.0	µg/L	1	5/3/2013 04:17
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	5/3/2013 04:17
Methylcyclohexane	U		0.99	5.0	µg/L	1	5/3/2013 04:17
Methylene chloride	U		0.19	5.0	µg/L	1	5/3/2013 04:17
o-Xylene	U		0.086	1.0	µg/L	1	5/3/2013 04:17
Styrene	U		0.11	1.0	µg/L	1	5/3/2013 04:17
Tetrachloroethene	U		0.15	2.0	µg/L	1	5/3/2013 04:17
Toluene	U		0.12	1.0	µg/L	1	5/3/2013 04:17
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	5/3/2013 04:17
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	5/3/2013 04:17
Trichloroethene	U		0.14	1.0	µg/L	1	5/3/2013 04:17
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	5/3/2013 04:17
Vinyl chloride	U		0.17	1.0	µg/L	1	5/3/2013 04:17
Xylenes, Total	U		0.29	3.0	µg/L	1	5/3/2013 04:17
Surr: 1,2-Dichloroethane-d4	89.7			70-120	%REC	1	5/3/2013 04:17
Surr: 4-Bromofluorobenzene	92.4			75-120	%REC	1	5/3/2013 04:17
Surr: Dibromofluoromethane	100			85-115	%REC	1	5/3/2013 04:17
Surr: Toluene-d8	99.4			85-120	%REC	1	5/3/2013 04:17

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-001  
**Collection Date:** 4/23/2013 01:40 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-02  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7470</b>		Prep: SW7470 / 5/1/13		Analyst: <b>LR</b>
Mercury	U		0.00010	0.00020	mg/L	1	5/1/2013 15:35
<b>MERCURY BY CVAA (DISSOLVED)</b>							
			Method: <b>SW7470</b>		Prep: SW7470 / 5/1/13		Analyst: <b>LR</b>
Mercury	U		0.00010	0.00020	mg/L	1	5/1/2013 15:37
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020A</b>		Prep: SW3005A / 5/2/13		Analyst: <b>RH</b>
Arsenic	U		0.00058	0.0050	mg/L	1	5/3/2013 20:32
<b>Barium</b>	<b>0.019</b>		<b>0.000063</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/3/2013 20:32
Cadmium	U		0.000045	0.0020	mg/L	1	5/3/2013 20:32
<b>Chromium</b>	<b>0.00056</b>	J	<b>0.00027</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/3/2013 20:32
<b>Lead</b>	<b>0.000070</b>	J	<b>0.000051</b>	<b>0.0030</b>	<b>mg/L</b>	1	5/3/2013 20:32
Selenium	U		0.00064	0.0050	mg/L	1	5/3/2013 20:32
Silver	U		0.000042	0.00020	mg/L	1	5/3/2013 20:32
<b>METALS BY ICP-MS (DISSOLVED)</b>							
			Method: <b>SW6020A</b>				Analyst: <b>RH</b>
Arsenic	U		0.00058	0.0050	mg/L	1	5/2/2013 01:31
<b>Barium</b>	<b>0.017</b>		<b>0.000063</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/2/2013 01:31
Cadmium	U		0.000045	0.0020	mg/L	1	5/2/2013 01:31
<b>Chromium</b>	<b>0.00057</b>	J	<b>0.00027</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/2/2013 01:31
<b>Lead</b>	<b>0.00012</b>	J	<b>0.000051</b>	<b>0.0030</b>	<b>mg/L</b>	1	5/2/2013 01:31
Selenium	U		0.00064	0.0050	mg/L	1	5/2/2013 01:31
Silver	U		0.000042	0.00020	mg/L	1	5/2/2013 01:31
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method: <b>SW8270</b>		Prep: SW3510 / 4/29/13		Analyst: <b>RM</b>
DRO (C10-C21)	U		0.013	0.10	mg/L	1	5/5/2013 19:01
ORO (C21-C35)	U		0.027	0.10	mg/L	1	5/5/2013 19:01
Surr: 4-Terphenyl-d14	91.2			23-112	%REC	1	5/5/2013 19:01
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8270</b>		Prep: SW3510 / 4/29/13		Analyst: <b>HL</b>
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	4/30/2013 13:46
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	4/30/2013 13:46
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	4/30/2013 13:46
2,4-Dichlorophenol	U		0.22	10	µg/L	1	4/30/2013 13:46
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	4/30/2013 13:46
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	4/30/2013 13:46
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	4/30/2013 13:46
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	4/30/2013 13:46
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 13:46
2-Chlorophenol	U		0.73	5.0	µg/L	1	4/30/2013 13:46
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 13:46
2-Methylphenol	U		0.60	5.0	µg/L	1	4/30/2013 13:46

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-001  
**Collection Date:** 4/23/2013 01:40 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-02  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Nitroaniline	U		0.11	20	µg/L	1	4/30/2013 13:46
2-Nitrophenol	U		0.19	5.0	µg/L	1	4/30/2013 13:46
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	4/30/2013 13:46
3-Nitroaniline	U		2.5	20	µg/L	1	4/30/2013 13:46
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	4/30/2013 13:46
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 13:46
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	4/30/2013 13:46
4-Chloroaniline	U		1.1	20	µg/L	1	4/30/2013 13:46
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 13:46
4-Methylphenol	U		0.55	5.0	µg/L	1	4/30/2013 13:46
4-Nitroaniline	U		1.5	20	µg/L	1	4/30/2013 13:46
4-Nitrophenol	U		1.6	20	µg/L	1	4/30/2013 13:46
Acenaphthene	U		0.11	5.0	µg/L	1	4/30/2013 13:46
Acenaphthylene	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Acetophenone	U		0.090	1.0	µg/L	1	4/30/2013 13:46
Anthracene	U		0.72	5.0	µg/L	1	4/30/2013 13:46
Atrazine	U		3.2	10	µg/L	1	4/30/2013 13:46
Benzaldehyde	U		0.46	1.0	µg/L	1	4/30/2013 13:46
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	4/30/2013 13:46
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	4/30/2013 13:46
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	4/30/2013 13:46
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	4/30/2013 13:46
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	4/30/2013 13:46
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	4/30/2013 13:46
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	4/30/2013 13:46
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	4/30/2013 13:46
Caprolactam	U		4.7	10	µg/L	1	4/30/2013 13:46
Carbazole	U		0.84	10	µg/L	1	4/30/2013 13:46
Chrysene	U		0.71	5.0	µg/L	1	4/30/2013 13:46
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	4/30/2013 13:46
Dibenzofuran	U		0.11	5.0	µg/L	1	4/30/2013 13:46
<b>Diethyl phthalate</b>	<b>1.2</b>	<b>J</b>	<b>0.69</b>	<b>20</b>	<b>µg/L</b>	1	4/30/2013 13:46
Dimethyl phthalate	U		0.14	20	µg/L	1	4/30/2013 13:46
<b>Di-n-butyl phthalate</b>	<b>1.8</b>	<b>J</b>	<b>0.71</b>	<b>5.0</b>	<b>µg/L</b>	1	4/30/2013 13:46
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Fluoranthene	U		0.77	5.0	µg/L	1	4/30/2013 13:46
Fluorene	U		0.10	5.0	µg/L	1	4/30/2013 13:46
Hexachlorobenzene	U		0.10	5.0	µg/L	1	4/30/2013 13:46

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-001  
**Collection Date:** 4/23/2013 01:40 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-02  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	4/30/2013 13:46
Hexachloroethane	U		0.13	5.0	µg/L	1	4/30/2013 13:46
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	4/30/2013 13:46
Isophorone	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Naphthalene	U		0.12	5.0	µg/L	1	4/30/2013 13:46
Nitrobenzene	U		0.10	5.0	µg/L	1	4/30/2013 13:46
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	4/30/2013 13:46
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	4/30/2013 13:46
Pentachlorophenol	U		0.11	20	µg/L	1	4/30/2013 13:46
Phenanthrene	U		0.86	5.0	µg/L	1	4/30/2013 13:46
Phenol	U		0.094	5.0	µg/L	1	4/30/2013 13:46
Pyrene	U		0.65	5.0	µg/L	1	4/30/2013 13:46
Surr: 2,4,6-Tribromophenol	58.6			32-115	%REC	1	4/30/2013 13:46
Surr: 2-Fluorobiphenyl	63.4			32-100	%REC	1	4/30/2013 13:46
Surr: 2-Fluorophenol	36.0			22-59	%REC	1	4/30/2013 13:46
Surr: 4-Terphenyl-d14	98.4			23-112	%REC	1	4/30/2013 13:46
Surr: Nitrobenzene-d5	49.5			31-93	%REC	1	4/30/2013 13:46
Surr: Phenol-d6	17.9			13-36	%REC	1	4/30/2013 13:46
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: SW8260GRO			Analyst: AK	
GRO (C6-C10)	U		25	100	µg/L	1	4/29/2013 15:25
Surr: Toluene-d8	97.0			70-130	%REC	1	4/29/2013 15:25
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260			Analyst: AK	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	4/29/2013 15:25
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	4/29/2013 15:25
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	4/29/2013 15:25
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	4/29/2013 15:25
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	4/29/2013 15:25
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	4/29/2013 15:25
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	4/29/2013 15:25
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	4/29/2013 15:25
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	4/29/2013 15:25
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	4/29/2013 15:25
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	4/29/2013 15:25
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	4/29/2013 15:25
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	4/29/2013 15:25
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	4/29/2013 15:25
2-Butanone	U		0.22	5.0	µg/L	1	4/29/2013 15:25
2-Hexanone	U		0.12	5.0	µg/L	1	4/29/2013 15:25

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-001  
**Collection Date:** 4/23/2013 01:40 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-02  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	4/29/2013 15:25
Acetone	U		0.33	20	µg/L	1	4/29/2013 15:25
Benzene	U		0.18	1.0	µg/L	1	4/29/2013 15:25
Bromodichloromethane	U		0.12	1.0	µg/L	1	4/29/2013 15:25
Bromoform	U		0.15	1.0	µg/L	1	4/29/2013 15:25
Bromomethane	U		0.21	1.0	µg/L	1	4/29/2013 15:25
Carbon disulfide	U		0.17	2.5	µg/L	1	4/29/2013 15:25
Carbon tetrachloride	U		0.12	1.0	µg/L	1	4/29/2013 15:25
Chlorobenzene	U		0.13	1.0	µg/L	1	4/29/2013 15:25
Chloroethane	U		0.46	1.0	µg/L	1	4/29/2013 15:25
<b>Chloroform</b>	<b>0.78</b>	<b>J</b>	<b>0.15</b>	<b>1.0</b>	<b>µg/L</b>	1	4/29/2013 15:25
Chloromethane	U		0.16	1.0	µg/L	1	4/29/2013 15:25
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	4/29/2013 15:25
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	4/29/2013 15:25
Cyclohexane	U		0.22	5.0	µg/L	1	4/29/2013 15:25
Dibromochloromethane	U		0.13	1.0	µg/L	1	4/29/2013 15:25
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	4/29/2013 15:25
Ethylbenzene	U		0.13	1.0	µg/L	1	4/29/2013 15:25
Isopropylbenzene	U		0.14	1.0	µg/L	1	4/29/2013 15:25
m,p-Xylene	U		0.20	2.0	µg/L	1	4/29/2013 15:25
Methyl acetate	U		0.19	2.0	µg/L	1	4/29/2013 15:25
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	4/29/2013 15:25
Methylcyclohexane	U		0.99	5.0	µg/L	1	4/29/2013 15:25
Methylene chloride	U		0.19	5.0	µg/L	1	4/29/2013 15:25
o-Xylene	U		0.086	1.0	µg/L	1	4/29/2013 15:25
Styrene	U		0.11	1.0	µg/L	1	4/29/2013 15:25
Tetrachloroethene	U		0.15	2.0	µg/L	1	4/29/2013 15:25
Toluene	U		0.12	1.0	µg/L	1	4/29/2013 15:25
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	4/29/2013 15:25
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	4/29/2013 15:25
Trichloroethene	U		0.14	1.0	µg/L	1	4/29/2013 15:25
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	4/29/2013 15:25
Vinyl chloride	U		0.17	1.0	µg/L	1	4/29/2013 15:25
Xylenes, Total	U		0.29	3.0	µg/L	1	4/29/2013 15:25
Surr: 1,2-Dichloroethane-d4	88.2			70-120	%REC	1	4/29/2013 15:25
Surr: 4-Bromofluorobenzene	101			75-120	%REC	1	4/29/2013 15:25
Surr: Dibromofluoromethane	93.6			85-115	%REC	1	4/29/2013 15:25
Surr: Toluene-d8	99.1			85-120	%REC	1	4/29/2013 15:25

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-001  
**Collection Date:** 4/23/2013 01:55 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-03  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.023	J	0.0030	0.060	mg/Kg-dry	1	5/2/2013 14:34
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	4.0	J	0.98	7.2	mg/Kg-dry	5	5/3/2013 20:34
Barium	280		0.20	7.2	mg/Kg-dry	5	5/3/2013 20:34
Cadmium	0.79	J	0.029	2.9	mg/Kg-dry	5	5/3/2013 20:34
Chromium	50		1.2	7.2	mg/Kg-dry	5	5/6/2013 16:44
Lead	16		0.029	7.2	mg/Kg-dry	5	5/3/2013 20:34
Selenium	2.0	J	0.92	7.2	mg/Kg-dry	5	5/3/2013 20:34
Silver	0.090	J	0.029	7.2	mg/Kg-dry	5	5/3/2013 20:34
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		4.4	10	mg/Kg-dry	1	5/5/2013 21:39
ORO (C21-C35)	U		5.0	10	mg/Kg-dry	1	5/5/2013 21:39
Surr: 4-Terphenyl-d14	105			25-137	%REC	1	5/5/2013 21:39
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		18	1,200	µg/Kg-dry	1	5/1/2013 02:52
2,4,5-Trichlorophenol	U		28	570	µg/Kg-dry	1	5/1/2013 02:52
2,4,6-Trichlorophenol	U		28	570	µg/Kg-dry	1	5/1/2013 02:52
2,4-Dichlorophenol	U		35	570	µg/Kg-dry	1	5/1/2013 02:52
2,4-Dimethylphenol	U		140	1,200	µg/Kg-dry	1	5/1/2013 02:52
2,4-Dinitrophenol	U		150	2,300	µg/Kg-dry	1	5/1/2013 02:52
2,4-Dinitrotoluene	U		32	570	µg/Kg-dry	1	5/1/2013 02:52
2,6-Dinitrotoluene	U		33	570	µg/Kg-dry	1	5/1/2013 02:52
2-Chloronaphthalene	U		32	280	µg/Kg-dry	1	5/1/2013 02:52
2-Chlorophenol	U		32	570	µg/Kg-dry	1	5/1/2013 02:52
2-Methylnaphthalene	U		35	280	µg/Kg-dry	1	5/1/2013 02:52
2-Methylphenol	U		34	570	µg/Kg-dry	1	5/1/2013 02:52
2-Nitroaniline	U		27	2,300	µg/Kg-dry	1	5/1/2013 02:52
2-Nitrophenol	U		31	570	µg/Kg-dry	1	5/1/2013 02:52
3,3'-Dichlorobenzidine	U		33	2,300	µg/Kg-dry	1	5/1/2013 02:52
3-Nitroaniline	U		290	2,300	µg/Kg-dry	1	5/1/2013 02:52
4,6-Dinitro-2-methylphenol	U		170	1,200	µg/Kg-dry	1	5/1/2013 02:52
4-Bromophenyl phenyl ether	U		31	570	µg/Kg-dry	1	5/1/2013 02:52
4-Chloro-3-methylphenol	U		32	570	µg/Kg-dry	1	5/1/2013 02:52
4-Chloroaniline	U		45	2,300	µg/Kg-dry	1	5/1/2013 02:52
4-Chlorophenyl phenyl ether	U		32	570	µg/Kg-dry	1	5/1/2013 02:52
4-Methylphenol	U		35	570	µg/Kg-dry	1	5/1/2013 02:52
4-Nitroaniline	U		53	2,300	µg/Kg-dry	1	5/1/2013 02:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-001  
**Collection Date:** 4/23/2013 01:55 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-03  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		140	2,300	µg/Kg-dry	1	5/1/2013 02:52
Acenaphthene	U		32	110	µg/Kg-dry	1	5/1/2013 02:52
Acenaphthylene	U		34	110	µg/Kg-dry	1	5/1/2013 02:52
Acetophenone	U		18	1,200	µg/Kg-dry	1	5/1/2013 02:52
Anthracene	U		36	110	µg/Kg-dry	1	5/1/2013 02:52
Atrazine	U		36	1,200	µg/Kg-dry	1	5/1/2013 02:52
Benzaldehyde	U		45	1,200	µg/Kg-dry	1	5/1/2013 02:52
Benzo(a)anthracene	U		43	110	µg/Kg-dry	1	5/1/2013 02:52
Benzo(a)pyrene	U		55	110	µg/Kg-dry	1	5/1/2013 02:52
Benzo(b)fluoranthene	U		57	110	µg/Kg-dry	1	5/1/2013 02:52
Benzo(g,h,i)perylene	U		84	110	µg/Kg-dry	1	5/1/2013 02:52
Benzo(k)fluoranthene	U		48	110	µg/Kg-dry	1	5/1/2013 02:52
Bis(2-chloroethoxy)methane	U		29	570	µg/Kg-dry	1	5/1/2013 02:52
Bis(2-chloroethyl)ether	U		30	570	µg/Kg-dry	1	5/1/2013 02:52
Bis(2-chloroisopropyl)ether	U		28	570	µg/Kg-dry	1	5/1/2013 02:52
Bis(2-ethylhexyl)phthalate	U		35	1,200	µg/Kg-dry	1	5/1/2013 02:52
Butyl benzyl phthalate	U		49	570	µg/Kg-dry	1	5/1/2013 02:52
Caprolactam	U		52	1,200	µg/Kg-dry	1	5/1/2013 02:52
Carbazole	U		41	570	µg/Kg-dry	1	5/1/2013 02:52
Chrysene	U		40	110	µg/Kg-dry	1	5/1/2013 02:52
Dibenzo(a,h)anthracene	U		61	110	µg/Kg-dry	1	5/1/2013 02:52
Dibenzofuran	U		32	570	µg/Kg-dry	1	5/1/2013 02:52
Diethyl phthalate	U		30	1,200	µg/Kg-dry	1	5/1/2013 02:52
Dimethyl phthalate	U		30	1,200	µg/Kg-dry	1	5/1/2013 02:52
Di-n-butyl phthalate	U		36	1,200	µg/Kg-dry	1	5/1/2013 02:52
Di-n-octyl phthalate	U		44	570	µg/Kg-dry	1	5/1/2013 02:52
Fluoranthene	U		42	110	µg/Kg-dry	1	5/1/2013 02:52
Fluorene	U		31	110	µg/Kg-dry	1	5/1/2013 02:52
Hexachlorobenzene	U		32	570	µg/Kg-dry	1	5/1/2013 02:52
Hexachlorobutadiene	U		30	570	µg/Kg-dry	1	5/1/2013 02:52
Hexachlorocyclopentadiene	U		120	1,200	µg/Kg-dry	1	5/1/2013 02:52
Hexachloroethane	U		31	570	µg/Kg-dry	1	5/1/2013 02:52
Indeno(1,2,3-cd)pyrene	U		67	110	µg/Kg-dry	1	5/1/2013 02:52
Isophorone	U		31	570	µg/Kg-dry	1	5/1/2013 02:52
Naphthalene	U		30	110	µg/Kg-dry	1	5/1/2013 02:52
Nitrobenzene	U		31	570	µg/Kg-dry	1	5/1/2013 02:52
N-Nitrosodi-n-propylamine	U		31	570	µg/Kg-dry	1	5/1/2013 02:52
N-Nitrosodiphenylamine	U		210	570	µg/Kg-dry	1	5/1/2013 02:52
Pentachlorophenol	U		52	1,200	µg/Kg-dry	1	5/1/2013 02:52
Phenanthrene	U		110	110	µg/Kg-dry	1	5/1/2013 02:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-001  
**Collection Date:** 4/23/2013 01:55 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-03  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		30	570	µg/Kg-dry	1	5/1/2013 02:52
Pyrene	U		44	110	µg/Kg-dry	1	5/1/2013 02:52
Surr: 2,4,6-Tribromophenol	34.6			34-140	%REC	1	5/1/2013 02:52
Surr: 2-Fluorobiphenyl	83.8			12-100	%REC	1	5/1/2013 02:52
Surr: 2-Fluorophenol	92.8			33-117	%REC	1	5/1/2013 02:52
Surr: 4-Terphenyl-d14	124			25-137	%REC	1	5/1/2013 02:52
Surr: Nitrobenzene-d5	80.0			37-107	%REC	1	5/1/2013 02:52
Surr: Phenol-d6	88.3			40-106	%REC	1	5/1/2013 02:52
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		5,800	23,000	µg/Kg-dry	1	4/28/2013 14:22
Surr: Toluene-d8	98.2			70-130	%REC	1	4/28/2013 14:22
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>				Analyst: <b>AK</b>
1,1,1-Trichloroethane	U		0.81	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,1,2,2-Tetrachloroethane	U		0.52	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,1,2-Trichloroethane	U		0.70	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,1,2-Trichlorotrifluoroethane	U		1.0	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,1-Dichloroethane	U		0.94	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,1-Dichloroethene	U		0.83	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,2,4-Trichlorobenzene	U		0.76	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,2-Dibromo-3-chloropropane	U		0.73	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,2-Dibromoethane	U		0.74	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,2-Dichlorobenzene	U		0.74	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,2-Dichloroethane	U		1.0	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,2-Dichloropropane	U		0.95	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,3-Dichlorobenzene	U		0.69	18	µg/Kg-dry	1.03	4/29/2013 19:12
1,4-Dichlorobenzene	U		0.77	18	µg/Kg-dry	1.03	4/29/2013 19:12
<b>2-Butanone</b>	<b>9.7</b>	<b>J</b>	<b>2.8</b>	<b>37</b>	<b>µg/Kg-dry</b>	1.03	4/29/2013 19:12
2-Hexanone	U		1.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
4-Methyl-2-pentanone	U		0.73	18	µg/Kg-dry	1.03	4/29/2013 19:12
<b>Acetone</b>	<b>60</b>		<b>3.4</b>	<b>37</b>	<b>µg/Kg-dry</b>	1.03	4/29/2013 19:12
Benzene	U		0.91	18	µg/Kg-dry	1.03	4/29/2013 19:12
Bromodichloromethane	U		0.76	18	µg/Kg-dry	1.03	4/29/2013 19:12
Bromoform	U		0.57	18	µg/Kg-dry	1.03	4/29/2013 19:12
Bromomethane	U		1.3	37	µg/Kg-dry	1.03	4/29/2013 19:12
<b>Carbon disulfide</b>	<b>13</b>	<b>J</b>	<b>1.4</b>	<b>18</b>	<b>µg/Kg-dry</b>	1.03	4/29/2013 19:12
Carbon tetrachloride	U		0.74	18	µg/Kg-dry	1.03	4/29/2013 19:12
Chlorobenzene	U		0.81	18	µg/Kg-dry	1.03	4/29/2013 19:12
Chloroethane	U		2.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
<b>Chloroform</b>	<b>1.6</b>	<b>J</b>	<b>0.96</b>	<b>18</b>	<b>µg/Kg-dry</b>	1.03	4/29/2013 19:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-001  
**Collection Date:** 4/23/2013 01:55 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-03  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		1.1	37	µg/Kg-dry	1.03	4/29/2013 19:12
cis-1,2-Dichloroethene	U		1.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
cis-1,3-Dichloropropene	U		0.66	18	µg/Kg-dry	1.03	4/29/2013 19:12
Cyclohexane	U		1.2	18	µg/Kg-dry	1.03	4/29/2013 19:12
Dibromochloromethane	U		0.62	18	µg/Kg-dry	1.03	4/29/2013 19:12
Dichlorodifluoromethane	U		1.2	37	µg/Kg-dry	1.03	4/29/2013 19:12
Ethylbenzene	U		0.71	18	µg/Kg-dry	1.03	4/29/2013 19:12
Isopropylbenzene	U		0.71	18	µg/Kg-dry	1.03	4/29/2013 19:12
m,p-Xylene	U		1.4	9.2	µg/Kg-dry	1.03	4/29/2013 19:12
Methyl acetate	U		3.0	37	µg/Kg-dry	1.03	4/29/2013 19:12
Methyl tert-butyl ether	U		0.93	18	µg/Kg-dry	1.03	4/29/2013 19:12
<b>Methylcyclohexane</b>	<b>2.0</b>	<b>J</b>	<b>1.0</b>	<b>37</b>	<b>µg/Kg-dry</b>	1.03	4/29/2013 19:12
Methylene chloride	U		1.0	18	µg/Kg-dry	1.03	4/29/2013 19:12
o-Xylene	U		0.73	9.2	µg/Kg-dry	1.03	4/29/2013 19:12
Styrene	U		0.67	18	µg/Kg-dry	1.03	4/29/2013 19:12
Tetrachloroethene	U		1.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
<b>Toluene</b>	<b>2.4</b>	<b>J</b>	<b>0.87</b>	<b>18</b>	<b>µg/Kg-dry</b>	1.03	4/29/2013 19:12
trans-1,2-Dichloroethene	U		1.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
trans-1,3-Dichloropropene	U		0.68	37	µg/Kg-dry	1.03	4/29/2013 19:12
Trichloroethene	U		0.85	18	µg/Kg-dry	1.03	4/29/2013 19:12
Trichlorofluoromethane	U		4.3	18	µg/Kg-dry	1.03	4/29/2013 19:12
Vinyl chloride	U		1.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
Xylenes, Total	U		2.1	18	µg/Kg-dry	1.03	4/29/2013 19:12
Surr: 1,2-Dichloroethane-d4	93.2			70-120	%REC	1.03	4/29/2013 19:12
Surr: 4-Bromofluorobenzene	92.0			75-120	%REC	1.03	4/29/2013 19:12
Surr: Dibromofluoromethane	90.2			85-115	%REC	1.03	4/29/2013 19:12
Surr: Toluene-d8	85.2			85-120	%REC	1.03	4/29/2013 19:12
<b>MOISTURE</b>			Method: A2540 G				Analyst: <b>KF</b>
<b>Moisture</b>	<b>72</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-002  
**Collection Date:** 4/23/2013 02:10 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-04  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7470</b>			Prep: SW7470 / 5/1/13	Analyst: <b>LR</b>
Mercury	U		0.00010	0.00020	mg/L	1	5/1/2013 15:39
<b>MERCURY BY CVAA (DISSOLVED)</b>							
			Method: <b>SW7470</b>			Prep: SW7470 / 5/1/13	Analyst: <b>LR</b>
Mercury	U		0.00010	0.00020	mg/L	1	5/1/2013 15:41
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020A</b>			Prep: SW3005A / 5/2/13	Analyst: <b>RH</b>
Arsenic	U		0.00058	0.0050	mg/L	1	5/3/2013 20:37
<b>Barium</b>	<b>0.022</b>		<b>0.000063</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/3/2013 20:37
Cadmium	U		0.000045	0.0020	mg/L	1	5/3/2013 20:37
<b>Chromium</b>	<b>0.00063</b>	J	<b>0.00027</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/3/2013 20:37
<b>Lead</b>	<b>0.000065</b>	J	<b>0.000051</b>	<b>0.0030</b>	<b>mg/L</b>	1	5/3/2013 20:37
Selenium	U		0.00064	0.0050	mg/L	1	5/3/2013 20:37
Silver	U		0.000042	0.00020	mg/L	1	5/3/2013 20:37
<b>METALS BY ICP-MS (DISSOLVED)</b>							
			Method: <b>SW6020A</b>				Analyst: <b>RH</b>
Arsenic	U		0.00058	0.0050	mg/L	1	5/2/2013 01:36
<b>Barium</b>	<b>0.019</b>		<b>0.000063</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/2/2013 01:36
Cadmium	U		0.000045	0.0020	mg/L	1	5/2/2013 01:36
<b>Chromium</b>	<b>0.00045</b>	J	<b>0.00027</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/2/2013 01:36
Lead	U		0.000051	0.0030	mg/L	1	5/2/2013 01:36
<b>Selenium</b>	<b>0.00069</b>	J	<b>0.00064</b>	<b>0.0050</b>	<b>mg/L</b>	1	5/2/2013 01:36
Silver	U		0.000042	0.00020	mg/L	1	5/2/2013 01:36
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method: <b>SW8270</b>			Prep: SW3510 / 4/29/13	Analyst: <b>RM</b>
DRO (C10-C21)	U		0.013	0.10	mg/L	1	5/5/2013 18:41
ORO (C21-C35)	U		0.027	0.10	mg/L	1	5/5/2013 18:41
Surr: 4-Terphenyl-d14	88.6			23-112	%REC	1	5/5/2013 18:41
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8270</b>			Prep: SW3510 / 4/29/13	Analyst: <b>HL</b>
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	4/30/2013 14:08
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	4/30/2013 14:08
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	4/30/2013 14:08
2,4-Dichlorophenol	U		0.22	10	µg/L	1	4/30/2013 14:08
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	4/30/2013 14:08
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	4/30/2013 14:08
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	4/30/2013 14:08
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	4/30/2013 14:08
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 14:08
2-Chlorophenol	U		0.73	5.0	µg/L	1	4/30/2013 14:08
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 14:08
2-Methylphenol	U		0.60	5.0	µg/L	1	4/30/2013 14:08

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-002  
**Collection Date:** 4/23/2013 02:10 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-04  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Nitroaniline	U		0.11	20	µg/L	1	4/30/2013 14:08
2-Nitrophenol	U		0.19	5.0	µg/L	1	4/30/2013 14:08
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	4/30/2013 14:08
3-Nitroaniline	U		2.5	20	µg/L	1	4/30/2013 14:08
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	4/30/2013 14:08
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 14:08
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	4/30/2013 14:08
4-Chloroaniline	U		1.1	20	µg/L	1	4/30/2013 14:08
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 14:08
4-Methylphenol	U		0.55	5.0	µg/L	1	4/30/2013 14:08
4-Nitroaniline	U		1.5	20	µg/L	1	4/30/2013 14:08
4-Nitrophenol	U		1.6	20	µg/L	1	4/30/2013 14:08
Acenaphthene	U		0.11	5.0	µg/L	1	4/30/2013 14:08
Acenaphthylene	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Acetophenone	U		0.090	1.0	µg/L	1	4/30/2013 14:08
Anthracene	U		0.72	5.0	µg/L	1	4/30/2013 14:08
Atrazine	U		3.2	10	µg/L	1	4/30/2013 14:08
Benzaldehyde	U		0.46	1.0	µg/L	1	4/30/2013 14:08
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	4/30/2013 14:08
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	4/30/2013 14:08
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	4/30/2013 14:08
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	4/30/2013 14:08
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	4/30/2013 14:08
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	4/30/2013 14:08
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	4/30/2013 14:08
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	4/30/2013 14:08
Caprolactam	U		4.7	10	µg/L	1	4/30/2013 14:08
Carbazole	U		0.84	10	µg/L	1	4/30/2013 14:08
Chrysene	U		0.71	5.0	µg/L	1	4/30/2013 14:08
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	4/30/2013 14:08
Dibenzofuran	U		0.11	5.0	µg/L	1	4/30/2013 14:08
<b>Diethyl phthalate</b>	<b>1.2</b>	<b>J</b>	<b>0.69</b>	<b>20</b>	<b>µg/L</b>	1	4/30/2013 14:08
Dimethyl phthalate	U		0.14	20	µg/L	1	4/30/2013 14:08
<b>Di-n-butyl phthalate</b>	<b>1.8</b>	<b>J</b>	<b>0.71</b>	<b>5.0</b>	<b>µg/L</b>	1	4/30/2013 14:08
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Fluoranthene	U		0.77	5.0	µg/L	1	4/30/2013 14:08
Fluorene	U		0.10	5.0	µg/L	1	4/30/2013 14:08
Hexachlorobenzene	U		0.10	5.0	µg/L	1	4/30/2013 14:08

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-002  
**Collection Date:** 4/23/2013 02:10 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-04  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	4/30/2013 14:08
Hexachloroethane	U		0.13	5.0	µg/L	1	4/30/2013 14:08
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	4/30/2013 14:08
Isophorone	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Naphthalene	U		0.12	5.0	µg/L	1	4/30/2013 14:08
Nitrobenzene	U		0.10	5.0	µg/L	1	4/30/2013 14:08
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	4/30/2013 14:08
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	4/30/2013 14:08
Pentachlorophenol	U		0.11	20	µg/L	1	4/30/2013 14:08
Phenanthrene	U		0.86	5.0	µg/L	1	4/30/2013 14:08
Phenol	U		0.094	5.0	µg/L	1	4/30/2013 14:08
Pyrene	U		0.65	5.0	µg/L	1	4/30/2013 14:08
Surr: 2,4,6-Tribromophenol	55.4			32-115	%REC	1	4/30/2013 14:08
Surr: 2-Fluorobiphenyl	65.6			32-100	%REC	1	4/30/2013 14:08
Surr: 2-Fluorophenol	38.3			22-59	%REC	1	4/30/2013 14:08
Surr: 4-Terphenyl-d14	98.2			23-112	%REC	1	4/30/2013 14:08
Surr: Nitrobenzene-d5	51.1			31-93	%REC	1	4/30/2013 14:08
Surr: Phenol-d6	18.8			13-36	%REC	1	4/30/2013 14:08
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: SW8260GRO			Analyst: AK	
GRO (C6-C10)	U		25	100	µg/L	1	4/29/2013 15:49
Surr: Toluene-d8	98.2			70-130	%REC	1	4/29/2013 15:49
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260			Analyst: AK	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	4/29/2013 15:49
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	4/29/2013 15:49
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	4/29/2013 15:49
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	4/29/2013 15:49
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	4/29/2013 15:49
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	4/29/2013 15:49
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	4/29/2013 15:49
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	4/29/2013 15:49
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	4/29/2013 15:49
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	4/29/2013 15:49
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	4/29/2013 15:49
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	4/29/2013 15:49
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	4/29/2013 15:49
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	4/29/2013 15:49
2-Butanone	U		0.22	5.0	µg/L	1	4/29/2013 15:49
2-Hexanone	U		0.12	5.0	µg/L	1	4/29/2013 15:49

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SW-002  
**Collection Date:** 4/23/2013 02:10 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-04  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	4/29/2013 15:49
Acetone	U		0.33	20	µg/L	1	4/29/2013 15:49
Benzene	U		0.18	1.0	µg/L	1	4/29/2013 15:49
Bromodichloromethane	U		0.12	1.0	µg/L	1	4/29/2013 15:49
Bromoform	U		0.15	1.0	µg/L	1	4/29/2013 15:49
Bromomethane	U		0.21	1.0	µg/L	1	4/29/2013 15:49
Carbon disulfide	U		0.17	2.5	µg/L	1	4/29/2013 15:49
Carbon tetrachloride	U		0.12	1.0	µg/L	1	4/29/2013 15:49
Chlorobenzene	U		0.13	1.0	µg/L	1	4/29/2013 15:49
Chloroethane	U		0.46	1.0	µg/L	1	4/29/2013 15:49
<b>Chloroform</b>	<b>0.82</b>	<b>J</b>	<b>0.15</b>	<b>1.0</b>	<b>µg/L</b>	1	4/29/2013 15:49
Chloromethane	U		0.16	1.0	µg/L	1	4/29/2013 15:49
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	4/29/2013 15:49
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	4/29/2013 15:49
Cyclohexane	U		0.22	5.0	µg/L	1	4/29/2013 15:49
Dibromochloromethane	U		0.13	1.0	µg/L	1	4/29/2013 15:49
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	4/29/2013 15:49
Ethylbenzene	U		0.13	1.0	µg/L	1	4/29/2013 15:49
Isopropylbenzene	U		0.14	1.0	µg/L	1	4/29/2013 15:49
m,p-Xylene	U		0.20	2.0	µg/L	1	4/29/2013 15:49
Methyl acetate	U		0.19	2.0	µg/L	1	4/29/2013 15:49
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	4/29/2013 15:49
Methylcyclohexane	U		0.99	5.0	µg/L	1	4/29/2013 15:49
Methylene chloride	U		0.19	5.0	µg/L	1	4/29/2013 15:49
o-Xylene	U		0.086	1.0	µg/L	1	4/29/2013 15:49
Styrene	U		0.11	1.0	µg/L	1	4/29/2013 15:49
Tetrachloroethene	U		0.15	2.0	µg/L	1	4/29/2013 15:49
Toluene	U		0.12	1.0	µg/L	1	4/29/2013 15:49
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	4/29/2013 15:49
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	4/29/2013 15:49
Trichloroethene	U		0.14	1.0	µg/L	1	4/29/2013 15:49
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	4/29/2013 15:49
Vinyl chloride	U		0.17	1.0	µg/L	1	4/29/2013 15:49
Xylenes, Total	U		0.29	3.0	µg/L	1	4/29/2013 15:49
Surr: 1,2-Dichloroethane-d4	87.2			70-120	%REC	1	4/29/2013 15:49
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	4/29/2013 15:49
Surr: Dibromofluoromethane	93.0			85-115	%REC	1	4/29/2013 15:49
Surr: Toluene-d8	98.5			85-120	%REC	1	4/29/2013 15:49

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-002  
**Collection Date:** 4/23/2013 02:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-05  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.044		0.0020	0.039	mg/Kg-dry	1	5/2/2013 14:36
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	3.0	J	0.75	5.5	mg/Kg-dry	5	5/3/2013 20:40
Barium	1,800		0.15	5.5	mg/Kg-dry	5	5/3/2013 20:40
Cadmium	0.92	J	0.022	2.2	mg/Kg-dry	5	5/3/2013 20:40
Chromium	31		0.91	5.5	mg/Kg-dry	5	5/6/2013 16:50
Lead	15		0.022	5.5	mg/Kg-dry	5	5/3/2013 20:40
Selenium	1.6	J	0.71	5.5	mg/Kg-dry	5	5/3/2013 20:40
Silver	0.037	J	0.022	5.5	mg/Kg-dry	5	5/3/2013 20:40
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		3.5	8.2	mg/Kg-dry	1	5/5/2013 21:59
ORO (C21-C35)	140		3.9	8.2	mg/Kg-dry	1	5/5/2013 21:59
Surr: 4-Terphenyl-d14	103			25-137	%REC	1	5/5/2013 21:59
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		14	930	µg/Kg-dry	1	5/1/2013 03:12
2,4,5-Trichlorophenol	U		22	450	µg/Kg-dry	1	5/1/2013 03:12
2,4,6-Trichlorophenol	U		22	450	µg/Kg-dry	1	5/1/2013 03:12
2,4-Dichlorophenol	U		27	450	µg/Kg-dry	1	5/1/2013 03:12
2,4-Dimethylphenol	U		110	930	µg/Kg-dry	1	5/1/2013 03:12
2,4-Dinitrophenol	U		120	1,900	µg/Kg-dry	1	5/1/2013 03:12
2,4-Dinitrotoluene	U		25	450	µg/Kg-dry	1	5/1/2013 03:12
2,6-Dinitrotoluene	U		26	450	µg/Kg-dry	1	5/1/2013 03:12
2-Chloronaphthalene	U		26	220	µg/Kg-dry	1	5/1/2013 03:12
2-Chlorophenol	U		25	450	µg/Kg-dry	1	5/1/2013 03:12
2-Methylnaphthalene	U		28	220	µg/Kg-dry	1	5/1/2013 03:12
2-Methylphenol	U		27	450	µg/Kg-dry	1	5/1/2013 03:12
2-Nitroaniline	U		21	1,900	µg/Kg-dry	1	5/1/2013 03:12
2-Nitrophenol	U		24	450	µg/Kg-dry	1	5/1/2013 03:12
3,3'-Dichlorobenzidine	U		26	1,900	µg/Kg-dry	1	5/1/2013 03:12
3-Nitroaniline	U		230	1,900	µg/Kg-dry	1	5/1/2013 03:12
4,6-Dinitro-2-methylphenol	U		130	930	µg/Kg-dry	1	5/1/2013 03:12
4-Bromophenyl phenyl ether	U		24	450	µg/Kg-dry	1	5/1/2013 03:12
4-Chloro-3-methylphenol	U		25	450	µg/Kg-dry	1	5/1/2013 03:12
4-Chloroaniline	U		36	1,900	µg/Kg-dry	1	5/1/2013 03:12
4-Chlorophenyl phenyl ether	U		26	450	µg/Kg-dry	1	5/1/2013 03:12
4-Methylphenol	U		28	450	µg/Kg-dry	1	5/1/2013 03:12
4-Nitroaniline	U		42	1,900	µg/Kg-dry	1	5/1/2013 03:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-002  
**Collection Date:** 4/23/2013 02:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-05  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		110	1,900	µg/Kg-dry	1	5/1/2013 03:12
Acenaphthene	U		26	84	µg/Kg-dry	1	5/1/2013 03:12
Acenaphthylene	U		27	84	µg/Kg-dry	1	5/1/2013 03:12
Acetophenone	U		14	930	µg/Kg-dry	1	5/1/2013 03:12
Anthracene	U		29	84	µg/Kg-dry	1	5/1/2013 03:12
Atrazine	U		28	930	µg/Kg-dry	1	5/1/2013 03:12
Benzaldehyde	U		36	930	µg/Kg-dry	1	5/1/2013 03:12
<b>Benzo(a)anthracene</b>	<b>97</b>		<b>34</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
<b>Benzo(a)pyrene</b>	<b>160</b>		<b>43</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
<b>Benzo(b)fluoranthene</b>	<b>180</b>		<b>45</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
<b>Benzo(g,h,i)perylene</b>	<b>120</b>		<b>66</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
<b>Benzo(k)fluoranthene</b>	<b>88</b>		<b>38</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
Bis(2-chloroethoxy)methane	U		23	450	µg/Kg-dry	1	5/1/2013 03:12
Bis(2-chloroethyl)ether	U		23	450	µg/Kg-dry	1	5/1/2013 03:12
Bis(2-chloroisopropyl)ether	U		22	450	µg/Kg-dry	1	5/1/2013 03:12
Bis(2-ethylhexyl)phthalate	U		28	930	µg/Kg-dry	1	5/1/2013 03:12
Butyl benzyl phthalate	U		39	450	µg/Kg-dry	1	5/1/2013 03:12
Caprolactam	U		41	930	µg/Kg-dry	1	5/1/2013 03:12
Carbazole	U		32	450	µg/Kg-dry	1	5/1/2013 03:12
<b>Chrysene</b>	<b>70</b>	J	<b>32</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
Dibenzo(a,h)anthracene	U		48	84	µg/Kg-dry	1	5/1/2013 03:12
Dibenzofuran	U		26	450	µg/Kg-dry	1	5/1/2013 03:12
Diethyl phthalate	U		23	930	µg/Kg-dry	1	5/1/2013 03:12
Dimethyl phthalate	U		23	930	µg/Kg-dry	1	5/1/2013 03:12
Di-n-butyl phthalate	U		28	930	µg/Kg-dry	1	5/1/2013 03:12
Di-n-octyl phthalate	U		35	450	µg/Kg-dry	1	5/1/2013 03:12
<b>Fluoranthene</b>	<b>120</b>		<b>33</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
Fluorene	U		25	84	µg/Kg-dry	1	5/1/2013 03:12
Hexachlorobenzene	U		26	450	µg/Kg-dry	1	5/1/2013 03:12
Hexachlorobutadiene	U		24	450	µg/Kg-dry	1	5/1/2013 03:12
Hexachlorocyclopentadiene	U		98	930	µg/Kg-dry	1	5/1/2013 03:12
Hexachloroethane	U		25	450	µg/Kg-dry	1	5/1/2013 03:12
<b>Indeno(1,2,3-cd)pyrene</b>	<b>180</b>		<b>53</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
Isophorone	U		24	450	µg/Kg-dry	1	5/1/2013 03:12
Naphthalene	U		24	84	µg/Kg-dry	1	5/1/2013 03:12
Nitrobenzene	U		24	450	µg/Kg-dry	1	5/1/2013 03:12
N-Nitrosodi-n-propylamine	U		25	450	µg/Kg-dry	1	5/1/2013 03:12
N-Nitrosodiphenylamine	U		170	450	µg/Kg-dry	1	5/1/2013 03:12
Pentachlorophenol	U		41	930	µg/Kg-dry	1	5/1/2013 03:12
Phenanthrene	U		84	84	µg/Kg-dry	1	5/1/2013 03:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-002  
**Collection Date:** 4/23/2013 02:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-05  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		24	450	µg/Kg-dry	1	5/1/2013 03:12
<b>Pyrene</b>	<b>160</b>		<b>35</b>	<b>84</b>	<b>µg/Kg-dry</b>	1	5/1/2013 03:12
Surr: 2,4,6-Tribromophenol	72.7			34-140	%REC	1	5/1/2013 03:12
Surr: 2-Fluorobiphenyl	82.2			12-100	%REC	1	5/1/2013 03:12
Surr: 2-Fluorophenol	93.2			33-117	%REC	1	5/1/2013 03:12
Surr: 4-Terphenyl-d14	119			25-137	%REC	1	5/1/2013 03:12
Surr: Nitrobenzene-d5	76.1			37-107	%REC	1	5/1/2013 03:12
Surr: Phenol-d6	82.2			40-106	%REC	1	5/1/2013 03:12
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
<b>GRO (C6-C10)</b>	<b>7,200</b>	J	<b>3,900</b>	<b>15,000</b>	<b>µg/Kg-dry</b>	1	4/28/2013 14:46
Surr: Toluene-d8	97.2			70-130	%REC	1	4/28/2013 14:46
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		35	93	µg/Kg-dry	1	4/28/2013 14:46
1,1,2,2-Tetrachloroethane	U		41	93	µg/Kg-dry	1	4/28/2013 14:46
1,1,2-Trichloroethane	U		33	93	µg/Kg-dry	1	4/28/2013 14:46
1,1,2-Trichlorotrifluoroethane	U		34	93	µg/Kg-dry	1	4/28/2013 14:46
1,1-Dichloroethane	U		34	93	µg/Kg-dry	1	4/28/2013 14:46
1,1-Dichloroethene	U		39	93	µg/Kg-dry	1	4/28/2013 14:46
1,2,4-Trichlorobenzene	U		48	93	µg/Kg-dry	1	4/28/2013 14:46
1,2-Dibromo-3-chloropropane	U		45	93	µg/Kg-dry	1	4/28/2013 14:46
1,2-Dibromoethane	U		37	93	µg/Kg-dry	1	4/28/2013 14:46
1,2-Dichlorobenzene	U		37	93	µg/Kg-dry	1	4/28/2013 14:46
1,2-Dichloroethane	U		44	93	µg/Kg-dry	1	4/28/2013 14:46
1,2-Dichloropropane	U		31	93	µg/Kg-dry	1	4/28/2013 14:46
1,3-Dichlorobenzene	U		37	93	µg/Kg-dry	1	4/28/2013 14:46
1,4-Dichlorobenzene	U		35	93	µg/Kg-dry	1	4/28/2013 14:46
2-Butanone	U		230	620	µg/Kg-dry	1	4/28/2013 14:46
2-Hexanone	U		23	93	µg/Kg-dry	1	4/28/2013 14:46
4-Methyl-2-pentanone	U		31	93	µg/Kg-dry	1	4/28/2013 14:46
Acetone	U		200	310	µg/Kg-dry	1	4/28/2013 14:46
Benzene	U		37	93	µg/Kg-dry	1	4/28/2013 14:46
Bromodichloromethane	U		21	93	µg/Kg-dry	1	4/28/2013 14:46
Bromoform	U		18	93	µg/Kg-dry	1	4/28/2013 14:46
Bromomethane	U		36	230	µg/Kg-dry	1	4/28/2013 14:46
Carbon disulfide	U		46	93	µg/Kg-dry	1	4/28/2013 14:46
Carbon tetrachloride	U		26	93	µg/Kg-dry	1	4/28/2013 14:46
Chlorobenzene	U		38	93	µg/Kg-dry	1	4/28/2013 14:46
Chloroethane	U		200	310	µg/Kg-dry	1	4/28/2013 14:46
Chloroform	U		38	93	µg/Kg-dry	1	4/28/2013 14:46

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SD-002  
**Collection Date:** 4/23/2013 02:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-05  
**Matrix:** SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		52	310	µg/Kg-dry	1	4/28/2013 14:46
cis-1,2-Dichloroethene	U		38	93	µg/Kg-dry	1	4/28/2013 14:46
cis-1,3-Dichloropropene	U		32	93	µg/Kg-dry	1	4/28/2013 14:46
Cyclohexane	U		42	93	µg/Kg-dry	1	4/28/2013 14:46
Dibromochloromethane	U		17	93	µg/Kg-dry	1	4/28/2013 14:46
Dichlorodifluoromethane	U		42	93	µg/Kg-dry	1	4/28/2013 14:46
Ethylbenzene	U		34	93	µg/Kg-dry	1	4/28/2013 14:46
Isopropylbenzene	U		40	93	µg/Kg-dry	1	4/28/2013 14:46
m,p-Xylene	U		70	190	µg/Kg-dry	1	4/28/2013 14:46
<b>Methyl acetate</b>	<b>220</b>	<b>J</b>	<b>120</b>	<b>620</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>4/28/2013 14:46</b>
Methyl tert-butyl ether	U		39	93	µg/Kg-dry	1	4/28/2013 14:46
Methylcyclohexane	U		43	93	µg/Kg-dry	1	4/28/2013 14:46
Methylene chloride	U		36	93	µg/Kg-dry	1	4/28/2013 14:46
o-Xylene	U		39	93	µg/Kg-dry	1	4/28/2013 14:46
Styrene	U		35	93	µg/Kg-dry	1	4/28/2013 14:46
Tetrachloroethene	U		41	93	µg/Kg-dry	1	4/28/2013 14:46
<b>Toluene</b>	<b>62</b>	<b>J</b>	<b>35</b>	<b>93</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>4/28/2013 14:46</b>
trans-1,2-Dichloroethene	U		29	93	µg/Kg-dry	1	4/28/2013 14:46
trans-1,3-Dichloropropene	U		31	93	µg/Kg-dry	1	4/28/2013 14:46
Trichloroethene	U		43	93	µg/Kg-dry	1	4/28/2013 14:46
Trichlorofluoromethane	U		26	93	µg/Kg-dry	1	4/28/2013 14:46
Vinyl chloride	U		42	93	µg/Kg-dry	1	4/28/2013 14:46
Xylenes, Total	U		110	280	µg/Kg-dry	1	4/28/2013 14:46
Surr: 1,2-Dichloroethane-d4	90.4			70-130	%REC	1	4/28/2013 14:46
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	4/28/2013 14:46
Surr: Dibromofluoromethane	93.0			70-130	%REC	1	4/28/2013 14:46
Surr: Toluene-d8	101			70-130	%REC	1	4/28/2013 14:46
<b>MOISTURE</b>			Method: A2540 G				Analyst: <b>KF</b>
<b>Moisture</b>	<b>64</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-001  
**Collection Date:** 4/24/2013 09:50 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-06  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.0067	J	0.00093	0.019	mg/Kg-dry	1	5/2/2013 14:45
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	1.3		0.11	0.78	mg/Kg-dry	2	5/3/2013 20:46
Barium	33		0.022	0.78	mg/Kg-dry	2	5/3/2013 20:46
Cadmium	0.11	J	0.0031	0.31	mg/Kg-dry	2	5/3/2013 20:46
Chromium	3.1		0.13	0.78	mg/Kg-dry	2	5/6/2013 16:56
Lead	3.4		0.0031	0.78	mg/Kg-dry	2	5/3/2013 20:46
Selenium	0.29	J	0.10	0.78	mg/Kg-dry	2	5/3/2013 20:46
Silver	U		0.0031	0.78	mg/Kg-dry	2	5/3/2013 20:46
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	5/5/2013 22:19
ORO (C21-C35)	26		1.7	3.5	mg/Kg-dry	1	5/5/2013 22:19
Surr: 4-Terphenyl-d14	96.9			25-137	%REC	1	5/5/2013 22:19
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		5.9	390	µg/Kg-dry	1	5/1/2013 03:32
2,4,5-Trichlorophenol	U		9.5	190	µg/Kg-dry	1	5/1/2013 03:32
2,4,6-Trichlorophenol	U		9.5	190	µg/Kg-dry	1	5/1/2013 03:32
2,4-Dichlorophenol	U		12	190	µg/Kg-dry	1	5/1/2013 03:32
2,4-Dimethylphenol	U		49	390	µg/Kg-dry	1	5/1/2013 03:32
2,4-Dinitrophenol	U		51	790	µg/Kg-dry	1	5/1/2013 03:32
2,4-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
2-Chloronaphthalene	U		11	96	µg/Kg-dry	1	5/1/2013 03:32
2-Chlorophenol	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
2-Methylnaphthalene	U		12	96	µg/Kg-dry	1	5/1/2013 03:32
2-Methylphenol	U		12	190	µg/Kg-dry	1	5/1/2013 03:32
2-Nitroaniline	U		9.1	790	µg/Kg-dry	1	5/1/2013 03:32
2-Nitrophenol	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
3,3'-Dichlorobenzidine	U		11	790	µg/Kg-dry	1	5/1/2013 03:32
3-Nitroaniline	U		97	790	µg/Kg-dry	1	5/1/2013 03:32
4,6-Dinitro-2-methylphenol	U		58	390	µg/Kg-dry	1	5/1/2013 03:32
4-Bromophenyl phenyl ether	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
4-Chloroaniline	U		15	790	µg/Kg-dry	1	5/1/2013 03:32
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
4-Methylphenol	U		12	190	µg/Kg-dry	1	5/1/2013 03:32
4-Nitroaniline	U		18	790	µg/Kg-dry	1	5/1/2013 03:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-001  
**Collection Date:** 4/24/2013 09:50 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-06  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		48	790	µg/Kg-dry	1	5/1/2013 03:32
Acenaphthene	U		11	36	µg/Kg-dry	1	5/1/2013 03:32
Acenaphthylene	U		11	36	µg/Kg-dry	1	5/1/2013 03:32
Acetophenone	U		6.0	390	µg/Kg-dry	1	5/1/2013 03:32
Anthracene	U		12	36	µg/Kg-dry	1	5/1/2013 03:32
Atrazine	U		12	390	µg/Kg-dry	1	5/1/2013 03:32
Benzaldehyde	U		15	390	µg/Kg-dry	1	5/1/2013 03:32
Benzo(a)anthracene	U		15	36	µg/Kg-dry	1	5/1/2013 03:32
Benzo(a)pyrene	U		18	36	µg/Kg-dry	1	5/1/2013 03:32
Benzo(b)fluoranthene	U		19	36	µg/Kg-dry	1	5/1/2013 03:32
Benzo(g,h,i)perylene	U		28	36	µg/Kg-dry	1	5/1/2013 03:32
Benzo(k)fluoranthene	U		16	36	µg/Kg-dry	1	5/1/2013 03:32
Bis(2-chloroethoxy)methane	U		9.8	190	µg/Kg-dry	1	5/1/2013 03:32
Bis(2-chloroethyl)ether	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
Bis(2-chloroisopropyl)ether	U		9.3	190	µg/Kg-dry	1	5/1/2013 03:32
Bis(2-ethylhexyl)phthalate	U		12	390	µg/Kg-dry	1	5/1/2013 03:32
Butyl benzyl phthalate	U		17	190	µg/Kg-dry	1	5/1/2013 03:32
Caprolactam	U		17	390	µg/Kg-dry	1	5/1/2013 03:32
Carbazole	U		14	190	µg/Kg-dry	1	5/1/2013 03:32
Chrysene	U		14	36	µg/Kg-dry	1	5/1/2013 03:32
Dibenzo(a,h)anthracene	U		20	36	µg/Kg-dry	1	5/1/2013 03:32
Dibenzofuran	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
Diethyl phthalate	U		9.9	390	µg/Kg-dry	1	5/1/2013 03:32
Dimethyl phthalate	U		10	390	µg/Kg-dry	1	5/1/2013 03:32
Di-n-butyl phthalate	U		12	390	µg/Kg-dry	1	5/1/2013 03:32
Di-n-octyl phthalate	U		15	190	µg/Kg-dry	1	5/1/2013 03:32
Fluoranthene	U		14	36	µg/Kg-dry	1	5/1/2013 03:32
Fluorene	U		10	36	µg/Kg-dry	1	5/1/2013 03:32
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	5/1/2013 03:32
Hexachlorobutadiene	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
Hexachlorocyclopentadiene	U		42	390	µg/Kg-dry	1	5/1/2013 03:32
Hexachloroethane	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
Indeno(1,2,3-cd)pyrene	U		23	36	µg/Kg-dry	1	5/1/2013 03:32
Isophorone	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
Naphthalene	U		10	36	µg/Kg-dry	1	5/1/2013 03:32
Nitrobenzene	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
N-Nitrosodi-n-propylamine	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
N-Nitrosodiphenylamine	U		71	190	µg/Kg-dry	1	5/1/2013 03:32
Pentachlorophenol	U		18	390	µg/Kg-dry	1	5/1/2013 03:32
Phenanthrene	U		36	36	µg/Kg-dry	1	5/1/2013 03:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-001  
**Collection Date:** 4/24/2013 09:50 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-06  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	190	µg/Kg-dry	1	5/1/2013 03:32
Pyrene	U		15	36	µg/Kg-dry	1	5/1/2013 03:32
Surr: 2,4,6-Tribromophenol	68.1			34-140	%REC	1	5/1/2013 03:32
Surr: 2-Fluorobiphenyl	82.1			12-100	%REC	1	5/1/2013 03:32
Surr: 2-Fluorophenol	96.4			33-117	%REC	1	5/1/2013 03:32
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	5/1/2013 03:32
Surr: Nitrobenzene-d5	78.9			37-107	%REC	1	5/1/2013 03:32
Surr: Phenol-d6	83.7			40-106	%REC	1	5/1/2013 03:32
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,600	6,600	µg/Kg-dry	1	4/28/2013 15:10
Surr: Toluene-d8	93.4			70-130	%REC	1	4/28/2013 15:10
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.29	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,1,2,2-Tetrachloroethane	U		0.18	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,1,2-Trichloroethane	U		0.25	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,1,2-Trichlorotrifluoroethane	U		0.36	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,1-Dichloroethane	U		0.33	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,1-Dichloroethene	U		0.29	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,2,4-Trichlorobenzene	U		0.27	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,2-Dibromo-3-chloropropane	U		0.26	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,2-Dibromoethane	U		0.26	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,2-Dichlorobenzene	U		0.26	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,2-Dichloroethane	U		0.36	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,2-Dichloropropane	U		0.34	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,3-Dichlorobenzene	U		0.24	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
1,4-Dichlorobenzene	U		0.27	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>2-Butanone</b>	<b>2.4</b>	<b>J</b>	<b>1.0</b>	<b>13</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
2-Hexanone	U		0.39	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
4-Methyl-2-pentanone	U		0.26	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Acetone</b>	<b>24</b>		<b>1.2</b>	<b>13</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
<b>Benzene</b>	<b>0.71</b>	<b>J</b>	<b>0.32</b>	<b>6.5</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
Bromodichloromethane	U		0.27	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Bromoform	U		0.20	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Bromomethane	U		0.46	13	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Carbon disulfide</b>	<b>0.53</b>	<b>J</b>	<b>0.48</b>	<b>6.5</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
Carbon tetrachloride	U		0.26	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Chlorobenzene	U		0.29	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Chloroethane	U		0.73	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Chloroform</b>	<b>0.53</b>	<b>J</b>	<b>0.34</b>	<b>6.5</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-001  
**Collection Date:** 4/24/2013 09:50 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-06  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.40	13	µg/Kg-dry	1.06	4/29/2013 19:40
cis-1,2-Dichloroethene	U		0.38	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
cis-1,3-Dichloropropene	U		0.23	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Cyclohexane</b>	<b>1.2</b>	<b>J</b>	<b>0.41</b>	<b>6.5</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
Dibromochloromethane	U		0.22	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Dichlorodifluoromethane	U		0.43	13	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Ethylbenzene</b>	<b>0.39</b>	<b>J</b>	<b>0.25</b>	<b>6.5</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
Isopropylbenzene	U		0.25	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>m,p-Xylene</b>	<b>0.52</b>	<b>J</b>	<b>0.49</b>	<b>3.2</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
Methyl acetate	U		1.0	13	µg/Kg-dry	1.06	4/29/2013 19:40
Methyl tert-butyl ether	U		0.33	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Methylcyclohexane</b>	<b>2.1</b>	<b>J</b>	<b>0.36</b>	<b>13</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
Methylene chloride	U		0.37	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
o-Xylene	U		0.26	3.2	µg/Kg-dry	1.06	4/29/2013 19:40
Styrene	U		0.24	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Tetrachloroethene	U		0.39	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
<b>Toluene</b>	<b>1.3</b>	<b>J</b>	<b>0.31</b>	<b>6.5</b>	<b>µg/Kg-dry</b>	1.06	4/29/2013 19:40
trans-1,2-Dichloroethene	U		0.38	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
trans-1,3-Dichloropropene	U		0.24	13	µg/Kg-dry	1.06	4/29/2013 19:40
Trichloroethene	U		0.30	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Trichlorofluoromethane	U		1.5	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Vinyl chloride	U		0.40	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Xylenes, Total	U		0.75	6.5	µg/Kg-dry	1.06	4/29/2013 19:40
Surr: 1,2-Dichloroethane-d4	96.5			70-120	%REC	1.06	4/29/2013 19:40
Surr: 4-Bromofluorobenzene	96.1			75-120	%REC	1.06	4/29/2013 19:40
Surr: Dibromofluoromethane	93.1			85-115	%REC	1.06	4/29/2013 19:40
Surr: Toluene-d8	90.8			85-120	%REC	1.06	4/29/2013 19:40
<b>MOISTURE</b>			Method: A2540 G				Analyst: <b>KF</b>
<b>Moisture</b>	<b>18</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002  
**Collection Date:** 4/24/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-07  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.057		0.00092	0.018	mg/Kg-dry	1	5/2/2013 14:47
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	9.5		0.12	0.87	mg/Kg-dry	2	5/3/2013 20:51
Barium	130		0.024	0.87	mg/Kg-dry	2	5/3/2013 20:51
Cadmium	0.78		0.0035	0.35	mg/Kg-dry	2	5/3/2013 20:51
Chromium	29		0.28	1.7	mg/Kg-dry	4	5/6/2013 17:02
Lead	29		0.0035	0.87	mg/Kg-dry	2	5/3/2013 20:51
Selenium	0.76	J	0.11	0.87	mg/Kg-dry	2	5/3/2013 20:51
Silver	0.51	J	0.0035	0.87	mg/Kg-dry	2	5/3/2013 20:51
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	5/5/2013 22:39
ORO (C21-C35)	19		1.7	3.6	mg/Kg-dry	1	5/5/2013 22:39
Surr: 4-Terphenyl-d14	102			25-137	%REC	1	5/5/2013 22:39
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.1	400	µg/Kg-dry	1	5/1/2013 03:52
2,4,5-Trichlorophenol	U		9.7	200	µg/Kg-dry	1	5/1/2013 03:52
2,4,6-Trichlorophenol	U		9.7	200	µg/Kg-dry	1	5/1/2013 03:52
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/1/2013 03:52
2,4-Dimethylphenol	U		50	400	µg/Kg-dry	1	5/1/2013 03:52
2,4-Dinitrophenol	U		52	810	µg/Kg-dry	1	5/1/2013 03:52
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
2,6-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
2-Chloronaphthalene	U		11	98	µg/Kg-dry	1	5/1/2013 03:52
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
2-Methylnaphthalene	U		12	98	µg/Kg-dry	1	5/1/2013 03:52
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 03:52
2-Nitroaniline	U		9.3	810	µg/Kg-dry	1	5/1/2013 03:52
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
3,3'-Dichlorobenzidine	U		11	810	µg/Kg-dry	1	5/1/2013 03:52
3-Nitroaniline	U		99	810	µg/Kg-dry	1	5/1/2013 03:52
4,6-Dinitro-2-methylphenol	U		59	400	µg/Kg-dry	1	5/1/2013 03:52
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
4-Chloroaniline	U		16	810	µg/Kg-dry	1	5/1/2013 03:52
4-Chlorophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
4-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 03:52
4-Nitroaniline	U		18	810	µg/Kg-dry	1	5/1/2013 03:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002  
**Collection Date:** 4/24/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-07  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		49	810	µg/Kg-dry	1	5/1/2013 03:52
Acenaphthene	U		11	37	µg/Kg-dry	1	5/1/2013 03:52
Acenaphthylene	U		12	37	µg/Kg-dry	1	5/1/2013 03:52
Acetophenone	U		6.1	400	µg/Kg-dry	1	5/1/2013 03:52
Anthracene	U		12	37	µg/Kg-dry	1	5/1/2013 03:52
Atrazine	U		12	400	µg/Kg-dry	1	5/1/2013 03:52
Benzaldehyde	U		15	400	µg/Kg-dry	1	5/1/2013 03:52
Benzo(a)anthracene	U		15	37	µg/Kg-dry	1	5/1/2013 03:52
Benzo(a)pyrene	U		19	37	µg/Kg-dry	1	5/1/2013 03:52
Benzo(b)fluoranthene	U		20	37	µg/Kg-dry	1	5/1/2013 03:52
Benzo(g,h,i)perylene	U		29	37	µg/Kg-dry	1	5/1/2013 03:52
Benzo(k)fluoranthene	U		17	37	µg/Kg-dry	1	5/1/2013 03:52
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	5/1/2013 03:52
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	5/1/2013 03:52
Bis(2-chloroisopropyl)ether	U		9.5	200	µg/Kg-dry	1	5/1/2013 03:52
Bis(2-ethylhexyl)phthalate	U		12	400	µg/Kg-dry	1	5/1/2013 03:52
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	5/1/2013 03:52
Caprolactam	U		18	400	µg/Kg-dry	1	5/1/2013 03:52
Carbazole	U		14	200	µg/Kg-dry	1	5/1/2013 03:52
Chrysene	U		14	37	µg/Kg-dry	1	5/1/2013 03:52
Dibenzo(a,h)anthracene	U		21	37	µg/Kg-dry	1	5/1/2013 03:52
Dibenzofuran	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
Diethyl phthalate	U		10	400	µg/Kg-dry	1	5/1/2013 03:52
Dimethyl phthalate	U		10	400	µg/Kg-dry	1	5/1/2013 03:52
Di-n-butyl phthalate	U		12	400	µg/Kg-dry	1	5/1/2013 03:52
Di-n-octyl phthalate	U		15	200	µg/Kg-dry	1	5/1/2013 03:52
Fluoranthene	U		15	37	µg/Kg-dry	1	5/1/2013 03:52
Fluorene	U		11	37	µg/Kg-dry	1	5/1/2013 03:52
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
Hexachlorobutadiene	U		10	200	µg/Kg-dry	1	5/1/2013 03:52
Hexachlorocyclopentadiene	U		43	400	µg/Kg-dry	1	5/1/2013 03:52
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
Indeno(1,2,3-cd)pyrene	U		23	37	µg/Kg-dry	1	5/1/2013 03:52
Isophorone	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
Naphthalene	U		10	37	µg/Kg-dry	1	5/1/2013 03:52
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/1/2013 03:52
N-Nitrosodiphenylamine	U		72	200	µg/Kg-dry	1	5/1/2013 03:52
Pentachlorophenol	U		18	400	µg/Kg-dry	1	5/1/2013 03:52
Phenanthrene	U		37	37	µg/Kg-dry	1	5/1/2013 03:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002  
**Collection Date:** 4/24/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-07  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	200	µg/Kg-dry	1	5/1/2013 03:52
Pyrene	U		15	37	µg/Kg-dry	1	5/1/2013 03:52
Surr: 2,4,6-Tribromophenol	67.6			34-140	%REC	1	5/1/2013 03:52
Surr: 2-Fluorobiphenyl	76.6			12-100	%REC	1	5/1/2013 03:52
Surr: 2-Fluorophenol	88.1			33-117	%REC	1	5/1/2013 03:52
Surr: 4-Terphenyl-d14	126			25-137	%REC	1	5/1/2013 03:52
Surr: Nitrobenzene-d5	71.1			37-107	%REC	1	5/1/2013 03:52
Surr: Phenol-d6	77.1			40-106	%REC	1	5/1/2013 03:52
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,500	6,100	µg/Kg-dry	1	4/28/2013 15:34
Surr: Toluene-d8	94.6			70-130	%REC	1	4/28/2013 15:34
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.24	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,1,2,2-Tetrachloroethane	U		0.16	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,1,2-Trichloroethane	U		0.21	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,1,2-Trichlorotrifluoroethane	U		0.31	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,1-Dichloroethane	U		0.28	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,1-Dichloroethene	U		0.25	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,2,4-Trichlorobenzene	U		0.23	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,2-Dibromo-3-chloropropane	U		0.22	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,2-Dibromoethane	U		0.22	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,2-Dichlorobenzene	U		0.22	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,2-Dichloroethane	U		0.31	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,2-Dichloropropane	U		0.29	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,3-Dichlorobenzene	U		0.21	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
1,4-Dichlorobenzene	U		0.23	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
<b>2-Butanone</b>	<b>4.9</b>	<b>J</b>	<b>0.85</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.898	4/29/2013 20:08
2-Hexanone	U		0.33	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
4-Methyl-2-pentanone	U		0.22	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
<b>Acetone</b>	<b>18</b>		<b>1.0</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.898	4/29/2013 20:08
Benzene	U		0.27	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Bromodichloromethane	U		0.23	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Bromoform	U		0.17	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Bromomethane	U		0.39	11	µg/Kg-dry	0.898	4/29/2013 20:08
<b>Carbon disulfide</b>	<b>0.86</b>	<b>J</b>	<b>0.41</b>	<b>5.5</b>	<b>µg/Kg-dry</b>	0.898	4/29/2013 20:08
Carbon tetrachloride	U		0.22	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Chlorobenzene	U		0.24	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Chloroethane	U		0.62	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
<b>Chloroform</b>	<b>0.46</b>	<b>J</b>	<b>0.29</b>	<b>5.5</b>	<b>µg/Kg-dry</b>	0.898	4/29/2013 20:08

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002  
**Collection Date:** 4/24/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-07  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.34	11	µg/Kg-dry	0.898	4/29/2013 20:08
cis-1,2-Dichloroethene	U		0.33	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
cis-1,3-Dichloropropene	U		0.20	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Cyclohexane	U		0.35	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Dibromochloromethane	U		0.19	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Dichlorodifluoromethane	U		0.37	11	µg/Kg-dry	0.898	4/29/2013 20:08
Ethylbenzene	U		0.21	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Isopropylbenzene	U		0.21	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
m,p-Xylene	U		0.42	2.8	µg/Kg-dry	0.898	4/29/2013 20:08
Methyl acetate	U		0.89	11	µg/Kg-dry	0.898	4/29/2013 20:08
Methyl tert-butyl ether	U		0.28	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Methylcyclohexane	U		0.31	11	µg/Kg-dry	0.898	4/29/2013 20:08
Methylene chloride	U		0.31	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
o-Xylene	U		0.22	2.8	µg/Kg-dry	0.898	4/29/2013 20:08
Styrene	U		0.20	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Tetrachloroethene	U		0.33	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Toluene	U		0.26	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
trans-1,2-Dichloroethene	U		0.32	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.898	4/29/2013 20:08
Trichloroethene	U		0.26	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Trichlorofluoromethane	U		1.3	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Vinyl chloride	U		0.34	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Xylenes, Total	U		0.64	5.5	µg/Kg-dry	0.898	4/29/2013 20:08
Surr: 1,2-Dichloroethane-d4	93.8			70-120	%REC	0.898	4/29/2013 20:08
Surr: 4-Bromofluorobenzene	93.3			75-120	%REC	0.898	4/29/2013 20:08
Surr: Dibromofluoromethane	93.8			85-115	%REC	0.898	4/29/2013 20:08
Surr: Toluene-d8	87.6			85-120	%REC	0.898	4/29/2013 20:08
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>19</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002A  
**Collection Date:** 4/24/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-08  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471		Prep: SW7471 / 5/2/13		Analyst: LR
Mercury	0.35		0.0011	0.022	mg/Kg-dry	1	5/2/2013 14:49
<b>METALS BY ICP-MS</b>							
			Method:SW6020A		Prep: SW3050B / 5/1/13		Analyst: ML
Arsenic	28		0.14	1.0	mg/Kg-dry	2	5/3/2013 20:57
Barium	110		0.029	1.0	mg/Kg-dry	2	5/3/2013 20:57
Cadmium	21		0.0042	0.42	mg/Kg-dry	2	5/3/2013 20:57
Chromium	310		0.34	2.1	mg/Kg-dry	4	5/6/2013 17:08
Lead	270		0.0042	1.0	mg/Kg-dry	2	5/3/2013 20:57
Selenium	6.3		0.13	1.0	mg/Kg-dry	2	5/3/2013 20:57
Silver	2.5		0.0042	1.0	mg/Kg-dry	2	5/3/2013 20:57
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270		Prep: SW3541 / 4/30/13		Analyst: RM
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	5/5/2013 22:59
ORO (C21-C35)	75		1.8	3.7	mg/Kg-dry	1	5/5/2013 22:59
Surr: 4-Terphenyl-d14	99.8			25-137	%REC	1	5/5/2013 22:59
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270		Prep: SW3541 / 4/30/13		Analyst: RM
1,1'-Biphenyl	U		6.3	420	µg/Kg-dry	1	5/1/2013 04:12
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/1/2013 04:12
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/1/2013 04:12
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/1/2013 04:12
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	5/1/2013 04:12
2,4-Dinitrophenol	U		54	830	µg/Kg-dry	1	5/1/2013 04:12
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	5/1/2013 04:12
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	5/1/2013 04:12
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
2-Methylnaphthalene	U		12	100	µg/Kg-dry	1	5/1/2013 04:12
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 04:12
2-Nitroaniline	U		9.6	830	µg/Kg-dry	1	5/1/2013 04:12
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
3,3'-Dichlorobenzidine	U		12	830	µg/Kg-dry	1	5/1/2013 04:12
3-Nitroaniline	U		100	830	µg/Kg-dry	1	5/1/2013 04:12
4,6-Dinitro-2-methylphenol	U		61	420	µg/Kg-dry	1	5/1/2013 04:12
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
4-Chloroaniline	U		16	830	µg/Kg-dry	1	5/1/2013 04:12
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	5/1/2013 04:12
4-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 04:12
4-Nitroaniline	U		19	830	µg/Kg-dry	1	5/1/2013 04:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002A  
**Collection Date:** 4/24/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-08  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		51	830	µg/Kg-dry	1	5/1/2013 04:12
Acenaphthene	U		12	38	µg/Kg-dry	1	5/1/2013 04:12
Acenaphthylene	U		12	38	µg/Kg-dry	1	5/1/2013 04:12
Acetophenone	U		6.3	420	µg/Kg-dry	1	5/1/2013 04:12
Anthracene	U		13	38	µg/Kg-dry	1	5/1/2013 04:12
Atrazine	U		13	420	µg/Kg-dry	1	5/1/2013 04:12
Benzaldehyde	U		16	420	µg/Kg-dry	1	5/1/2013 04:12
Benzo(a)anthracene	U		15	38	µg/Kg-dry	1	5/1/2013 04:12
Benzo(a)pyrene	U		20	38	µg/Kg-dry	1	5/1/2013 04:12
Benzo(b)fluoranthene	U		20	38	µg/Kg-dry	1	5/1/2013 04:12
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	5/1/2013 04:12
Benzo(k)fluoranthene	U		17	38	µg/Kg-dry	1	5/1/2013 04:12
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	5/1/2013 04:12
Bis(2-chloroethyl)ether	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
Bis(2-chloroisopropyl)ether	U		9.8	200	µg/Kg-dry	1	5/1/2013 04:12
<b>Bis(2-ethylhexyl)phthalate</b>	<b>150</b>	<b>J</b>	<b>13</b>	<b>420</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/1/2013 04:12</b>
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	5/1/2013 04:12
Caprolactam	U		18	420	µg/Kg-dry	1	5/1/2013 04:12
Carbazole	U		14	200	µg/Kg-dry	1	5/1/2013 04:12
Chrysene	U		14	38	µg/Kg-dry	1	5/1/2013 04:12
Dibenzo(a,h)anthracene	U		22	38	µg/Kg-dry	1	5/1/2013 04:12
Dibenzofuran	U		12	200	µg/Kg-dry	1	5/1/2013 04:12
Diethyl phthalate	U		10	420	µg/Kg-dry	1	5/1/2013 04:12
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	5/1/2013 04:12
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	5/1/2013 04:12
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	5/1/2013 04:12
Fluoranthene	U		15	38	µg/Kg-dry	1	5/1/2013 04:12
Fluorene	U		11	38	µg/Kg-dry	1	5/1/2013 04:12
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
Hexachlorocyclopentadiene	U		44	420	µg/Kg-dry	1	5/1/2013 04:12
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	5/1/2013 04:12
Isophorone	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
Naphthalene	U		11	38	µg/Kg-dry	1	5/1/2013 04:12
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
N-Nitrosodiphenylamine	U		75	200	µg/Kg-dry	1	5/1/2013 04:12
Pentachlorophenol	U		19	420	µg/Kg-dry	1	5/1/2013 04:12
Phenanthrene	U		38	38	µg/Kg-dry	1	5/1/2013 04:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002A  
**Collection Date:** 4/24/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-08  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:12
Pyrene	U		16	38	µg/Kg-dry	1	5/1/2013 04:12
Surr: 2,4,6-Tribromophenol	72.2			34-140	%REC	1	5/1/2013 04:12
Surr: 2-Fluorobiphenyl	82.9			12-100	%REC	1	5/1/2013 04:12
Surr: 2-Fluorophenol	96.5			33-117	%REC	1	5/1/2013 04:12
Surr: 4-Terphenyl-d14	116			25-137	%REC	1	5/1/2013 04:12
Surr: Nitrobenzene-d5	78.9			37-107	%REC	1	5/1/2013 04:12
Surr: Phenol-d6	85.2			40-106	%REC	1	5/1/2013 04:12
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,600	6,500	µg/Kg-dry	1	4/28/2013 15:57
Surr: Toluene-d8	94.7			70-130	%REC	1	4/28/2013 15:57
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,1,2-Trichlorotrifluoroethane	U		0.29	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,2-Dibromoethane	U		0.21	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,2-Dichlorobenzene	U		0.21	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,2-Dichloroethane	U		0.29	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,2-Dichloropropane	U		0.27	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
<b>2-Butanone</b>	<b>18</b>		<b>0.81</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.814	4/29/2013 20:36
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
<b>Acetone</b>	<b>92</b>		<b>0.99</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.814	4/29/2013 20:36
<b>Benzene</b>	<b>0.43</b>	J	<b>0.26</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.814	4/29/2013 20:36
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Bromoform	U		0.16	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Bromomethane	U		0.37	11	µg/Kg-dry	0.814	4/29/2013 20:36
<b>Carbon disulfide</b>	<b>0.89</b>	J	<b>0.39</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.814	4/29/2013 20:36
Carbon tetrachloride	U		0.21	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Chlorobenzene	U		0.23	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Chloroethane	U		0.59	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
<b>Chloroform</b>	<b>0.44</b>	J	<b>0.28</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.814	4/29/2013 20:36

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-002A  
**Collection Date:** 4/24/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-08  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.32	11	µg/Kg-dry	0.814	4/29/2013 20:36
cis-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Cyclohexane	U		0.34	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.814	4/29/2013 20:36
Ethylbenzene	U		0.20	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Isopropylbenzene	U		0.20	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
m,p-Xylene	U		0.40	2.6	µg/Kg-dry	0.814	4/29/2013 20:36
Methyl acetate	U		0.85	11	µg/Kg-dry	0.814	4/29/2013 20:36
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Methylcyclohexane	U		0.29	11	µg/Kg-dry	0.814	4/29/2013 20:36
Methylene chloride	U		0.30	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
o-Xylene	U		0.21	2.6	µg/Kg-dry	0.814	4/29/2013 20:36
Styrene	U		0.19	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
<b>Toluene</b>	<b>0.25</b>	<b>J</b>	<b>0.25</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.814	4/29/2013 20:36
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.814	4/29/2013 20:36
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Vinyl chloride	U		0.32	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.814	4/29/2013 20:36
Surr: 1,2-Dichloroethane-d4	95.2			70-120	%REC	0.814	4/29/2013 20:36
Surr: 4-Bromofluorobenzene	86.5			75-120	%REC	0.814	4/29/2013 20:36
Surr: Dibromofluoromethane	92.3			85-115	%REC	0.814	4/29/2013 20:36
Surr: Toluene-d8	88.4			85-120	%REC	0.814	4/29/2013 20:36
<b>MOISTURE</b>			Method: A2540 G				Analyst: DC
<b>Moisture</b>	<b>23</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/29/2013 13:40

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003  
**Collection Date:** 4/24/2013 11:30 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-09  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.084		0.00081	0.016	mg/Kg-dry	1	5/2/2013 14:51
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	25		0.12	0.90	mg/Kg-dry	2	5/3/2013 21:03
Barium	160		0.025	0.90	mg/Kg-dry	2	5/3/2013 21:03
Cadmium	1.0		0.0036	0.36	mg/Kg-dry	2	5/3/2013 21:03
Chromium	35		0.30	1.8	mg/Kg-dry	4	5/6/2013 17:13
Lead	23		0.0036	0.90	mg/Kg-dry	2	5/3/2013 21:03
Selenium	0.56	J	0.12	0.90	mg/Kg-dry	2	5/3/2013 21:03
Silver	1.1		0.0036	0.90	mg/Kg-dry	2	5/3/2013 21:03
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	5/5/2013 23:19
ORO (C21-C35)	16		1.7	3.6	mg/Kg-dry	1	5/5/2013 23:19
Surr: 4-Terphenyl-d14	101			25-137	%REC	1	5/5/2013 23:19
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.1	400	µg/Kg-dry	1	5/1/2013 04:32
2,4,5-Trichlorophenol	U		9.8	200	µg/Kg-dry	1	5/1/2013 04:32
2,4,6-Trichlorophenol	U		9.7	200	µg/Kg-dry	1	5/1/2013 04:32
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/1/2013 04:32
2,4-Dimethylphenol	U		50	400	µg/Kg-dry	1	5/1/2013 04:32
2,4-Dinitrophenol	U		52	810	µg/Kg-dry	1	5/1/2013 04:32
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
2,6-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
2-Chloronaphthalene	U		11	98	µg/Kg-dry	1	5/1/2013 04:32
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
2-Methylnaphthalene	U		12	98	µg/Kg-dry	1	5/1/2013 04:32
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 04:32
2-Nitroaniline	U		9.3	810	µg/Kg-dry	1	5/1/2013 04:32
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
3,3'-Dichlorobenzidine	U		11	810	µg/Kg-dry	1	5/1/2013 04:32
3-Nitroaniline	U		99	810	µg/Kg-dry	1	5/1/2013 04:32
4,6-Dinitro-2-methylphenol	U		59	400	µg/Kg-dry	1	5/1/2013 04:32
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
4-Chloroaniline	U		16	810	µg/Kg-dry	1	5/1/2013 04:32
4-Chlorophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
4-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 04:32
4-Nitroaniline	U		18	810	µg/Kg-dry	1	5/1/2013 04:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003  
**Collection Date:** 4/24/2013 11:30 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-09  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		49	810	µg/Kg-dry	1	5/1/2013 04:32
Acenaphthene	U		11	37	µg/Kg-dry	1	5/1/2013 04:32
Acenaphthylene	U		12	37	µg/Kg-dry	1	5/1/2013 04:32
Acetophenone	U		6.1	400	µg/Kg-dry	1	5/1/2013 04:32
Anthracene	U		12	37	µg/Kg-dry	1	5/1/2013 04:32
Atrazine	U		12	400	µg/Kg-dry	1	5/1/2013 04:32
Benzaldehyde	U		16	400	µg/Kg-dry	1	5/1/2013 04:32
Benzo(a)anthracene	U		15	37	µg/Kg-dry	1	5/1/2013 04:32
Benzo(a)pyrene	U		19	37	µg/Kg-dry	1	5/1/2013 04:32
Benzo(b)fluoranthene	U		20	37	µg/Kg-dry	1	5/1/2013 04:32
Benzo(g,h,i)perylene	U		29	37	µg/Kg-dry	1	5/1/2013 04:32
Benzo(k)fluoranthene	U		17	37	µg/Kg-dry	1	5/1/2013 04:32
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	5/1/2013 04:32
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	5/1/2013 04:32
Bis(2-chloroisopropyl)ether	U		9.5	200	µg/Kg-dry	1	5/1/2013 04:32
Bis(2-ethylhexyl)phthalate	U		12	400	µg/Kg-dry	1	5/1/2013 04:32
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	5/1/2013 04:32
Caprolactam	U		18	400	µg/Kg-dry	1	5/1/2013 04:32
Carbazole	U		14	200	µg/Kg-dry	1	5/1/2013 04:32
Chrysene	U		14	37	µg/Kg-dry	1	5/1/2013 04:32
Dibenzo(a,h)anthracene	U		21	37	µg/Kg-dry	1	5/1/2013 04:32
Dibenzofuran	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
Diethyl phthalate	U		10	400	µg/Kg-dry	1	5/1/2013 04:32
Dimethyl phthalate	U		10	400	µg/Kg-dry	1	5/1/2013 04:32
Di-n-butyl phthalate	U		12	400	µg/Kg-dry	1	5/1/2013 04:32
Di-n-octyl phthalate	U		15	200	µg/Kg-dry	1	5/1/2013 04:32
Fluoranthene	U		15	37	µg/Kg-dry	1	5/1/2013 04:32
Fluorene	U		11	37	µg/Kg-dry	1	5/1/2013 04:32
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
Hexachlorobutadiene	U		10	200	µg/Kg-dry	1	5/1/2013 04:32
Hexachlorocyclopentadiene	U		43	400	µg/Kg-dry	1	5/1/2013 04:32
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
Indeno(1,2,3-cd)pyrene	U		23	37	µg/Kg-dry	1	5/1/2013 04:32
Isophorone	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
Naphthalene	U		10	37	µg/Kg-dry	1	5/1/2013 04:32
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/1/2013 04:32
N-Nitrosodiphenylamine	U		73	200	µg/Kg-dry	1	5/1/2013 04:32
Pentachlorophenol	U		18	400	µg/Kg-dry	1	5/1/2013 04:32
Phenanthrene	U		37	37	µg/Kg-dry	1	5/1/2013 04:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003  
**Collection Date:** 4/24/2013 11:30 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-09  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	200	µg/Kg-dry	1	5/1/2013 04:32
Pyrene	U		15	37	µg/Kg-dry	1	5/1/2013 04:32
Surr: 2,4,6-Tribromophenol	64.0			34-140	%REC	1	5/1/2013 04:32
Surr: 2-Fluorobiphenyl	83.3			12-100	%REC	1	5/1/2013 04:32
Surr: 2-Fluorophenol	96.1			33-117	%REC	1	5/1/2013 04:32
Surr: 4-Terphenyl-d14	122			25-137	%REC	1	5/1/2013 04:32
Surr: Nitrobenzene-d5	77.7			37-107	%REC	1	5/1/2013 04:32
Surr: Phenol-d6	84.8			40-106	%REC	1	5/1/2013 04:32
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,500	6,100	µg/Kg-dry	1	4/28/2013 16:21
Surr: Toluene-d8	95.0			70-130	%REC	1	4/28/2013 16:21
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.25	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,1,2,2-Tetrachloroethane	U		0.16	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,1,2-Trichloroethane	U		0.22	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,1,2-Trichlorotrifluoroethane	U		0.32	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,1-Dichloroethane	U		0.29	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,1-Dichloroethene	U		0.26	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,2,4-Trichlorobenzene	U		0.23	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,2-Dibromo-3-chloropropane	U		0.22	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,2-Dibromoethane	U		0.23	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,2-Dichlorobenzene	U		0.23	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,2-Dichloroethane	U		0.31	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,2-Dichloropropane	U		0.29	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,3-Dichlorobenzene	U		0.21	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
1,4-Dichlorobenzene	U		0.24	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
2-Butanone	U		0.87	11	µg/Kg-dry	0.924	4/29/2013 21:04
2-Hexanone	U		0.34	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
4-Methyl-2-pentanone	U		0.22	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Acetone</b>	<b>12</b>		<b>1.1</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
<b>Benzene</b>	<b>2.0</b>	J	<b>0.28</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Bromodichloromethane	U		0.23	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Bromoform	U		0.17	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Bromomethane	U		0.40	11	µg/Kg-dry	0.924	4/29/2013 21:04
Carbon disulfide	U		0.42	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Carbon tetrachloride	U		0.23	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Chlorobenzene	U		0.25	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Chloroethane	U		0.64	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Chloroform</b>	<b>0.56</b>	J	<b>0.30</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003  
**Collection Date:** 4/24/2013 11:30 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-09  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.35	11	µg/Kg-dry	0.924	4/29/2013 21:04
cis-1,2-Dichloroethene	U		0.34	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
cis-1,3-Dichloropropene	U		0.20	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Cyclohexane</b>	<b>3.8</b>	J	<b>0.36</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Dibromochloromethane	U		0.19	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Dichlorodifluoromethane	U		0.38	11	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Ethylbenzene</b>	<b>1.5</b>	J	<b>0.22</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Isopropylbenzene	U		0.22	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>m,p-Xylene</b>	<b>1.3</b>	J	<b>0.43</b>	<b>2.8</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Methyl acetate	U		0.91	11	µg/Kg-dry	0.924	4/29/2013 21:04
Methyl tert-butyl ether	U		0.29	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Methylcyclohexane</b>	<b>6.0</b>	J	<b>0.32</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Methylene chloride	U		0.32	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>o-Xylene</b>	<b>0.50</b>	J	<b>0.23</b>	<b>2.8</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Styrene	U		0.21	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Tetrachloroethene	U		0.34	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Toluene</b>	<b>3.8</b>	J	<b>0.27</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
trans-1,2-Dichloroethene	U		0.33	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.924	4/29/2013 21:04
Trichloroethene	U		0.26	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Trichlorofluoromethane	U		1.3	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
Vinyl chloride	U		0.35	5.7	µg/Kg-dry	0.924	4/29/2013 21:04
<b>Xylenes, Total</b>	<b>1.8</b>	J	<b>0.65</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.924	4/29/2013 21:04
Surr: 1,2-Dichloroethane-d4	97.0			70-120	%REC	0.924	4/29/2013 21:04
Surr: 4-Bromofluorobenzene	95.4			75-120	%REC	0.924	4/29/2013 21:04
Surr: Dibromofluoromethane	93.2			85-115	%REC	0.924	4/29/2013 21:04
Surr: Toluene-d8	89.6			85-120	%REC	0.924	4/29/2013 21:04
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>18</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	1	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003A  
**Collection Date:** 4/24/2013 11:35 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-10  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.29		0.00099	0.020	mg/Kg-dry	1	5/2/2013 14:53
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	35		0.13	0.96	mg/Kg-dry	2	5/3/2013 21:09
Barium	180		0.027	0.96	mg/Kg-dry	2	5/3/2013 21:09
Cadmium	28		0.0038	0.38	mg/Kg-dry	2	5/3/2013 21:09
Chromium	350		0.79	4.8	mg/Kg-dry	10	5/6/2013 17:19
Lead	350		0.019	4.8	mg/Kg-dry	10	5/7/2013 08:00
Selenium	24		0.12	0.96	mg/Kg-dry	2	5/3/2013 21:09
Silver	3.0		0.0038	0.96	mg/Kg-dry	2	5/3/2013 21:09
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	200		1.7	3.9	mg/Kg-dry	1	5/5/2013 23:38
ORO (C21-C35)	640		1.9	3.9	mg/Kg-dry	1	5/5/2013 23:38
Surr: 4-Terphenyl-d14	98.2			25-137	%REC	1	5/5/2013 23:38
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.7	440	µg/Kg-dry	1	5/1/2013 04:52
2,4,5-Trichlorophenol	U		11	220	µg/Kg-dry	1	5/1/2013 04:52
2,4,6-Trichlorophenol	U		11	220	µg/Kg-dry	1	5/1/2013 04:52
2,4-Dichlorophenol	U		13	220	µg/Kg-dry	1	5/1/2013 04:52
2,4-Dimethylphenol	U		55	440	µg/Kg-dry	1	5/1/2013 04:52
2,4-Dinitrophenol	U		57	890	µg/Kg-dry	1	5/1/2013 04:52
2,4-Dinitrotoluene	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
2,6-Dinitrotoluene	U		13	220	µg/Kg-dry	1	5/1/2013 04:52
2-Chloronaphthalene	U		12	110	µg/Kg-dry	1	5/1/2013 04:52
2-Chlorophenol	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
2-Methylnaphthalene	31	J	13	110	µg/Kg-dry	1	5/1/2013 04:52
2-Methylphenol	U		13	220	µg/Kg-dry	1	5/1/2013 04:52
2-Nitroaniline	U		10	890	µg/Kg-dry	1	5/1/2013 04:52
2-Nitrophenol	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
3,3'-Dichlorobenzidine	U		13	890	µg/Kg-dry	1	5/1/2013 04:52
3-Nitroaniline	U		110	890	µg/Kg-dry	1	5/1/2013 04:52
4,6-Dinitro-2-methylphenol	U		65	440	µg/Kg-dry	1	5/1/2013 04:52
4-Bromophenyl phenyl ether	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
4-Chloro-3-methylphenol	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
4-Chloroaniline	U		17	890	µg/Kg-dry	1	5/1/2013 04:52
4-Chlorophenyl phenyl ether	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
4-Methylphenol	U		13	220	µg/Kg-dry	1	5/1/2013 04:52
4-Nitroaniline	U		20	890	µg/Kg-dry	1	5/1/2013 04:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003A  
**Collection Date:** 4/24/2013 11:35 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-10  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		55	890	µg/Kg-dry	1	5/1/2013 04:52
Acenaphthene	U		12	40	µg/Kg-dry	1	5/1/2013 04:52
Acenaphthylene	U		13	40	µg/Kg-dry	1	5/1/2013 04:52
Acetophenone	U		6.7	440	µg/Kg-dry	1	5/1/2013 04:52
Anthracene	U		14	40	µg/Kg-dry	1	5/1/2013 04:52
Atrazine	U		14	440	µg/Kg-dry	1	5/1/2013 04:52
Benzaldehyde	U		17	440	µg/Kg-dry	1	5/1/2013 04:52
<b>Benzo(a)anthracene</b>	<b>58</b>		<b>16</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Benzo(a)pyrene	U		21	40	µg/Kg-dry	1	5/1/2013 04:52
<b>Benzo(b)fluoranthene</b>	<b>93</b>		<b>22</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
<b>Benzo(g,h,i)perylene</b>	<b>62</b>		<b>32</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
<b>Benzo(k)fluoranthene</b>	<b>43</b>		<b>18</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Bis(2-chloroethoxy)methane	U		11	220	µg/Kg-dry	1	5/1/2013 04:52
Bis(2-chloroethyl)ether	U		11	220	µg/Kg-dry	1	5/1/2013 04:52
Bis(2-chloroisopropyl)ether	U		10	220	µg/Kg-dry	1	5/1/2013 04:52
Bis(2-ethylhexyl)phthalate	U		13	440	µg/Kg-dry	1	5/1/2013 04:52
Butyl benzyl phthalate	U		19	220	µg/Kg-dry	1	5/1/2013 04:52
Caprolactam	U		20	440	µg/Kg-dry	1	5/1/2013 04:52
Carbazole	U		15	220	µg/Kg-dry	1	5/1/2013 04:52
<b>Chrysene</b>	<b>50</b>		<b>15</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Dibenzo(a,h)anthracene	U		23	40	µg/Kg-dry	1	5/1/2013 04:52
Dibenzofuran	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
Diethyl phthalate	U		11	440	µg/Kg-dry	1	5/1/2013 04:52
Dimethyl phthalate	U		11	440	µg/Kg-dry	1	5/1/2013 04:52
Di-n-butyl phthalate	U		14	440	µg/Kg-dry	1	5/1/2013 04:52
Di-n-octyl phthalate	U		17	220	µg/Kg-dry	1	5/1/2013 04:52
<b>Fluoranthene</b>	<b>27</b>	J	<b>16</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Fluorene	U		12	40	µg/Kg-dry	1	5/1/2013 04:52
Hexachlorobenzene	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
Hexachlorobutadiene	U		11	220	µg/Kg-dry	1	5/1/2013 04:52
Hexachlorocyclopentadiene	U		47	440	µg/Kg-dry	1	5/1/2013 04:52
Hexachloroethane	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
<b>Indeno(1,2,3-cd)pyrene</b>	<b>71</b>		<b>26</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Isophorone	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
<b>Naphthalene</b>	<b>28</b>	J	<b>11</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Nitrobenzene	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
N-Nitrosodi-n-propylamine	U		12	220	µg/Kg-dry	1	5/1/2013 04:52
N-Nitrosodiphenylamine	U		80	220	µg/Kg-dry	1	5/1/2013 04:52
Pentachlorophenol	U		20	440	µg/Kg-dry	1	5/1/2013 04:52
<b>Phenanthrene</b>	<b>140</b>		<b>40</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003A  
**Collection Date:** 4/24/2013 11:35 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-10  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	220	µg/Kg-dry	1	5/1/2013 04:52
<b>Pyrene</b>	<b>64</b>		<b>17</b>	<b>40</b>	<b>µg/Kg-dry</b>	1	5/1/2013 04:52
Surr: 2,4,6-Tribromophenol	68.8			34-140	%REC	1	5/1/2013 04:52
Surr: 2-Fluorobiphenyl	82.7			12-100	%REC	1	5/1/2013 04:52
Surr: 2-Fluorophenol	92.1			33-117	%REC	1	5/1/2013 04:52
Surr: 4-Terphenyl-d14	103			25-137	%REC	1	5/1/2013 04:52
Surr: Nitrobenzene-d5	74.9			37-107	%REC	1	5/1/2013 04:52
Surr: Phenol-d6	82.4			40-106	%REC	1	5/1/2013 04:52
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
<b>GRO (C6-C10)</b>	<b>3,600</b>	J	<b>1,700</b>	<b>7,000</b>	<b>µg/Kg-dry</b>	1	4/28/2013 16:45
Surr: Toluene-d8	95.2			70-130	%REC	1	4/28/2013 16:45
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		16	42	µg/Kg-dry	1	4/28/2013 16:45
1,1,2,2-Tetrachloroethane	U		18	42	µg/Kg-dry	1	4/28/2013 16:45
1,1,2-Trichloroethane	U		15	42	µg/Kg-dry	1	4/28/2013 16:45
1,1,2-Trichlorotrifluoroethane	U		15	42	µg/Kg-dry	1	4/28/2013 16:45
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	4/28/2013 16:45
1,1-Dichloroethene	U		18	42	µg/Kg-dry	1	4/28/2013 16:45
1,2,4-Trichlorobenzene	U		22	42	µg/Kg-dry	1	4/28/2013 16:45
1,2-Dibromo-3-chloropropane	U		20	42	µg/Kg-dry	1	4/28/2013 16:45
1,2-Dibromoethane	U		16	42	µg/Kg-dry	1	4/28/2013 16:45
1,2-Dichlorobenzene	U		17	42	µg/Kg-dry	1	4/28/2013 16:45
1,2-Dichloroethane	U		20	42	µg/Kg-dry	1	4/28/2013 16:45
1,2-Dichloropropane	U		14	42	µg/Kg-dry	1	4/28/2013 16:45
1,3-Dichlorobenzene	U		17	42	µg/Kg-dry	1	4/28/2013 16:45
1,4-Dichlorobenzene	U		16	42	µg/Kg-dry	1	4/28/2013 16:45
2-Butanone	U		100	280	µg/Kg-dry	1	4/28/2013 16:45
2-Hexanone	U		10	42	µg/Kg-dry	1	4/28/2013 16:45
4-Methyl-2-pentanone	U		14	42	µg/Kg-dry	1	4/28/2013 16:45
Acetone	U		88	140	µg/Kg-dry	1	4/28/2013 16:45
Benzene	U		17	42	µg/Kg-dry	1	4/28/2013 16:45
Bromodichloromethane	U		9.4	42	µg/Kg-dry	1	4/28/2013 16:45
Bromoform	U		8.2	42	µg/Kg-dry	1	4/28/2013 16:45
Bromomethane	U		16	100	µg/Kg-dry	1	4/28/2013 16:45
Carbon disulfide	U		21	42	µg/Kg-dry	1	4/28/2013 16:45
Carbon tetrachloride	U		12	42	µg/Kg-dry	1	4/28/2013 16:45
Chlorobenzene	U		17	42	µg/Kg-dry	1	4/28/2013 16:45
Chloroethane	U		89	140	µg/Kg-dry	1	4/28/2013 16:45
Chloroform	U		17	42	µg/Kg-dry	1	4/28/2013 16:45

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-003A  
**Collection Date:** 4/24/2013 11:35 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-10  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		23	140	µg/Kg-dry	1	4/28/2013 16:45
cis-1,2-Dichloroethene	U		17	42	µg/Kg-dry	1	4/28/2013 16:45
cis-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	4/28/2013 16:45
Cyclohexane	U		19	42	µg/Kg-dry	1	4/28/2013 16:45
Dibromochloromethane	U		7.7	42	µg/Kg-dry	1	4/28/2013 16:45
Dichlorodifluoromethane	U		19	42	µg/Kg-dry	1	4/28/2013 16:45
Ethylbenzene	U		16	42	µg/Kg-dry	1	4/28/2013 16:45
Isopropylbenzene	U		18	42	µg/Kg-dry	1	4/28/2013 16:45
m,p-Xylene	U		32	84	µg/Kg-dry	1	4/28/2013 16:45
Methyl acetate	U		56	280	µg/Kg-dry	1	4/28/2013 16:45
Methyl tert-butyl ether	U		18	42	µg/Kg-dry	1	4/28/2013 16:45
Methylcyclohexane	U		19	42	µg/Kg-dry	1	4/28/2013 16:45
Methylene chloride	U		16	42	µg/Kg-dry	1	4/28/2013 16:45
o-Xylene	U		18	42	µg/Kg-dry	1	4/28/2013 16:45
Styrene	U		16	42	µg/Kg-dry	1	4/28/2013 16:45
Tetrachloroethene	U		19	42	µg/Kg-dry	1	4/28/2013 16:45
<b>Toluene</b>	<b>37</b>	<b>J</b>	<b>16</b>	<b>42</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>4/28/2013 16:45</b>
trans-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	4/28/2013 16:45
trans-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	4/28/2013 16:45
Trichloroethene	U		19	42	µg/Kg-dry	1	4/28/2013 16:45
Trichlorofluoromethane	U		11	42	µg/Kg-dry	1	4/28/2013 16:45
Vinyl chloride	U		19	42	µg/Kg-dry	1	4/28/2013 16:45
Xylenes, Total	U		49	130	µg/Kg-dry	1	4/28/2013 16:45
Surr: 1,2-Dichloroethane-d4	88.8			70-130	%REC	1	4/28/2013 16:45
Surr: 4-Bromofluorobenzene	99.3			70-130	%REC	1	4/28/2013 16:45
Surr: Dibromofluoromethane	92.8			70-130	%REC	1	4/28/2013 16:45
Surr: Toluene-d8	97.8			70-130	%REC	1	4/28/2013 16:45
<b>MOISTURE</b>			<b>Method: A2540 G</b>				<b>Analyst: KF</b>
<b>Moisture</b>	<b>28</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-11  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.019		0.00089	0.018	mg/Kg-dry	1	5/2/2013 14:55
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/1/13	Analyst: ML
Arsenic	5.5		0.12	0.85	mg/Kg-dry	2	5/3/2013 21:14
Barium	120		0.024	0.85	mg/Kg-dry	2	5/3/2013 21:14
Cadmium	0.55		0.0034	0.34	mg/Kg-dry	2	5/3/2013 21:14
Chromium	19		0.14	0.85	mg/Kg-dry	2	5/6/2013 19:21
Lead	16		0.0034	0.85	mg/Kg-dry	2	5/3/2013 21:14
Selenium	0.85		0.11	0.85	mg/Kg-dry	2	5/3/2013 21:14
Silver	0.072	J	0.0034	0.85	mg/Kg-dry	2	5/3/2013 21:14
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.5	3.4	mg/Kg-dry	1	5/5/2013 23:58
ORO (C21-C35)	32		1.6	3.4	mg/Kg-dry	1	5/5/2013 23:58
Surr: 4-Terphenyl-d14	99.3			25-137	%REC	1	5/5/2013 23:58
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		5.9	390	µg/Kg-dry	1	5/1/2013 05:12
2,4,5-Trichlorophenol	U		9.4	190	µg/Kg-dry	1	5/1/2013 05:12
2,4,6-Trichlorophenol	U		9.4	190	µg/Kg-dry	1	5/1/2013 05:12
2,4-Dichlorophenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
2,4-Dimethylphenol	U		48	390	µg/Kg-dry	1	5/1/2013 05:12
2,4-Dinitrophenol	U		50	780	µg/Kg-dry	1	5/1/2013 05:12
2,4-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
2-Chloronaphthalene	U		11	94	µg/Kg-dry	1	5/1/2013 05:12
2-Chlorophenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
2-Methylnaphthalene	U		12	94	µg/Kg-dry	1	5/1/2013 05:12
2-Methylphenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
2-Nitroaniline	U		9.0	780	µg/Kg-dry	1	5/1/2013 05:12
2-Nitrophenol	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
3,3'-Dichlorobenzidine	U		11	780	µg/Kg-dry	1	5/1/2013 05:12
3-Nitroaniline	U		96	780	µg/Kg-dry	1	5/1/2013 05:12
4,6-Dinitro-2-methylphenol	U		57	390	µg/Kg-dry	1	5/1/2013 05:12
4-Bromophenyl phenyl ether	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
4-Chloroaniline	U		15	780	µg/Kg-dry	1	5/1/2013 05:12
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
4-Methylphenol	U		12	190	µg/Kg-dry	1	5/1/2013 05:12
4-Nitroaniline	U		17	780	µg/Kg-dry	1	5/1/2013 05:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-11  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		48	780	µg/Kg-dry	1	5/1/2013 05:12
Acenaphthene	U		11	35	µg/Kg-dry	1	5/1/2013 05:12
Acenaphthylene	U		11	35	µg/Kg-dry	1	5/1/2013 05:12
Acetophenone	U		5.9	390	µg/Kg-dry	1	5/1/2013 05:12
Anthracene	U		12	35	µg/Kg-dry	1	5/1/2013 05:12
Atrazine	U		12	390	µg/Kg-dry	1	5/1/2013 05:12
Benzaldehyde	U		15	390	µg/Kg-dry	1	5/1/2013 05:12
Benzo(a)anthracene	U		14	35	µg/Kg-dry	1	5/1/2013 05:12
Benzo(a)pyrene	U		18	35	µg/Kg-dry	1	5/1/2013 05:12
Benzo(b)fluoranthene	U		19	35	µg/Kg-dry	1	5/1/2013 05:12
Benzo(g,h,i)perylene	U		28	35	µg/Kg-dry	1	5/1/2013 05:12
Benzo(k)fluoranthene	U		16	35	µg/Kg-dry	1	5/1/2013 05:12
Bis(2-chloroethoxy)methane	U		9.7	190	µg/Kg-dry	1	5/1/2013 05:12
Bis(2-chloroethyl)ether	U		9.8	190	µg/Kg-dry	1	5/1/2013 05:12
Bis(2-chloroisopropyl)ether	U		9.2	190	µg/Kg-dry	1	5/1/2013 05:12
<b>Bis(2-ethylhexyl)phthalate</b>	<b>120</b>	<b>J</b>	<b>12</b>	<b>390</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/1/2013 05:12</b>
Butyl benzyl phthalate	U		16	190	µg/Kg-dry	1	5/1/2013 05:12
Caprolactam	U		17	390	µg/Kg-dry	1	5/1/2013 05:12
Carbazole	U		13	190	µg/Kg-dry	1	5/1/2013 05:12
Chrysene	U		13	35	µg/Kg-dry	1	5/1/2013 05:12
Dibenzo(a,h)anthracene	U		20	35	µg/Kg-dry	1	5/1/2013 05:12
Dibenzofuran	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
Diethyl phthalate	U		9.8	390	µg/Kg-dry	1	5/1/2013 05:12
Dimethyl phthalate	U		9.8	390	µg/Kg-dry	1	5/1/2013 05:12
Di-n-butyl phthalate	U		12	390	µg/Kg-dry	1	5/1/2013 05:12
Di-n-octyl phthalate	U		15	190	µg/Kg-dry	1	5/1/2013 05:12
Fluoranthene	U		14	35	µg/Kg-dry	1	5/1/2013 05:12
Fluorene	U		10	35	µg/Kg-dry	1	5/1/2013 05:12
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	5/1/2013 05:12
Hexachlorobutadiene	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
Hexachlorocyclopentadiene	U		41	390	µg/Kg-dry	1	5/1/2013 05:12
Hexachloroethane	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
Indeno(1,2,3-cd)pyrene	U		22	35	µg/Kg-dry	1	5/1/2013 05:12
Isophorone	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
Naphthalene	U		10	35	µg/Kg-dry	1	5/1/2013 05:12
Nitrobenzene	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
N-Nitrosodi-n-propylamine	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
N-Nitrosodiphenylamine	U		70	190	µg/Kg-dry	1	5/1/2013 05:12
Pentachlorophenol	U		17	390	µg/Kg-dry	1	5/1/2013 05:12
Phenanthrene	U		35	35	µg/Kg-dry	1	5/1/2013 05:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-11  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	190	µg/Kg-dry	1	5/1/2013 05:12
Pyrene	U		15	35	µg/Kg-dry	1	5/1/2013 05:12
Surr: 2,4,6-Tribromophenol	66.0			34-140	%REC	1	5/1/2013 05:12
Surr: 2-Fluorobiphenyl	83.9			12-100	%REC	1	5/1/2013 05:12
Surr: 2-Fluorophenol	98.7			33-117	%REC	1	5/1/2013 05:12
Surr: 4-Terphenyl-d14	117			25-137	%REC	1	5/1/2013 05:12
Surr: Nitrobenzene-d5	80.7			37-107	%REC	1	5/1/2013 05:12
Surr: Phenol-d6	85.1			40-106	%REC	1	5/1/2013 05:12
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,500	6,000	µg/Kg-dry	1	4/28/2013 17:09
Surr: Toluene-d8	96.2			70-130	%REC	1	4/28/2013 17:09
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.22	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,1,2,2-Tetrachloroethane	U		0.14	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,1,2-Trichloroethane	U		0.19	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,1,2-Trichlorotrifluoroethane	U		0.27	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,1-Dichloroethane	U		0.25	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,1-Dichloroethene	U		0.22	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,2,4-Trichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,2-Dibromo-3-chloropropane	U		0.19	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,2-Dibromoethane	U		0.20	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,2-Dichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,2-Dichloroethane	U		0.27	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,2-Dichloropropane	U		0.25	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,3-Dichlorobenzene	U		0.18	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
1,4-Dichlorobenzene	U		0.21	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
<b>2-Butanone</b>	<b>4.4</b>	<b>J</b>	<b>0.75</b>	<b>9.8</b>	<b>µg/Kg-dry</b>	0.818	4/30/2013 21:06
2-Hexanone	U		0.30	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
4-Methyl-2-pentanone	U		0.19	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
<b>Acetone</b>	<b>20</b>		<b>0.92</b>	<b>9.8</b>	<b>µg/Kg-dry</b>	0.818	4/30/2013 21:06
<b>Benzene</b>	<b>0.27</b>	<b>J</b>	<b>0.24</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.818	4/30/2013 21:06
Bromodichloromethane	U		0.20	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Bromoform	U		0.15	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Bromomethane	U		0.35	9.8	µg/Kg-dry	0.818	4/30/2013 21:06
Carbon disulfide	U		0.36	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Carbon tetrachloride	U		0.20	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Chlorobenzene	U		0.22	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Chloroethane	U		0.55	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Chloroform	U		0.26	4.9	µg/Kg-dry	0.818	4/30/2013 21:06

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-11  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.30	9.8	µg/Kg-dry	0.818	4/30/2013 21:06
cis-1,2-Dichloroethene	U		0.29	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
cis-1,3-Dichloropropene	U		0.18	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Cyclohexane	U		0.31	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Dibromochloromethane	U		0.17	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Dichlorodifluoromethane	U		0.33	9.8	µg/Kg-dry	0.818	4/30/2013 21:06
Ethylbenzene	U		0.19	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Isopropylbenzene	U		0.19	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
m,p-Xylene	U		0.37	2.5	µg/Kg-dry	0.818	4/30/2013 21:06
Methyl acetate	U		0.79	9.8	µg/Kg-dry	0.818	4/30/2013 21:06
Methyl tert-butyl ether	U		0.25	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Methylcyclohexane	U		0.27	9.8	µg/Kg-dry	0.818	4/30/2013 21:06
Methylene chloride	U		0.28	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
o-Xylene	U		0.20	2.5	µg/Kg-dry	0.818	4/30/2013 21:06
Styrene	U		0.18	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Tetrachloroethene	U		0.29	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Toluene	U		0.23	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
trans-1,2-Dichloroethene	U		0.29	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
trans-1,3-Dichloropropene	U		0.18	9.8	µg/Kg-dry	0.818	4/30/2013 21:06
Trichloroethene	U		0.23	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Trichlorofluoromethane	U		1.1	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Vinyl chloride	U		0.30	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Xylenes, Total	U		0.56	4.9	µg/Kg-dry	0.818	4/30/2013 21:06
Surr: 1,2-Dichloroethane-d4	118			70-120	%REC	0.818	4/30/2013 21:06
Surr: 4-Bromofluorobenzene	88.9			75-120	%REC	0.818	4/30/2013 21:06
Surr: Dibromofluoromethane	110			85-115	%REC	0.818	4/30/2013 21:06
Surr: Toluene-d8	100			85-120	%REC	0.818	4/30/2013 21:06
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>17</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004A  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-12  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.027		0.00097	0.019	mg/Kg-dry	1	5/2/2013 14:57
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	6.6		0.11	0.83	mg/Kg-dry	2	5/3/2013 23:23
Barium	210		0.023	0.83	mg/Kg-dry	2	5/3/2013 23:23
Cadmium	3.2		0.0033	0.33	mg/Kg-dry	2	5/3/2013 23:23
Chromium	21		0.14	0.83	mg/Kg-dry	2	5/3/2013 23:23
Lead	19		0.0033	0.83	mg/Kg-dry	2	5/3/2013 23:23
Selenium	0.69	J	0.11	0.83	mg/Kg-dry	2	5/3/2013 23:23
Silver	0.12	J	0.0033	0.83	mg/Kg-dry	2	5/3/2013 23:23
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	5/6/2013 12:18
ORO (C21-C35)	20		1.7	3.7	mg/Kg-dry	1	5/6/2013 12:18
Surr: 4-Terphenyl-d14	110			25-137	%REC	1	5/6/2013 12:18
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.2	410	µg/Kg-dry	1	5/1/2013 05:32
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/1/2013 05:32
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/1/2013 05:32
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/1/2013 05:32
2,4-Dimethylphenol	U		51	410	µg/Kg-dry	1	5/1/2013 05:32
2,4-Dinitrophenol	U		53	830	µg/Kg-dry	1	5/1/2013 05:32
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	5/1/2013 05:32
2-Chloronaphthalene	U		11	100	µg/Kg-dry	1	5/1/2013 05:32
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
2-Methylnaphthalene	U		12	100	µg/Kg-dry	1	5/1/2013 05:32
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 05:32
2-Nitroaniline	U		9.5	830	µg/Kg-dry	1	5/1/2013 05:32
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
3,3'-Dichlorobenzidine	U		12	830	µg/Kg-dry	1	5/1/2013 05:32
3-Nitroaniline	U		100	830	µg/Kg-dry	1	5/1/2013 05:32
4,6-Dinitro-2-methylphenol	U		60	410	µg/Kg-dry	1	5/1/2013 05:32
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
4-Chloroaniline	U		16	830	µg/Kg-dry	1	5/1/2013 05:32
4-Chlorophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
4-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 05:32
4-Nitroaniline	U		19	830	µg/Kg-dry	1	5/1/2013 05:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004A  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-12  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		51	830	µg/Kg-dry	1	5/1/2013 05:32
Acenaphthene	U		11	38	µg/Kg-dry	1	5/1/2013 05:32
Acenaphthylene	U		12	38	µg/Kg-dry	1	5/1/2013 05:32
Acetophenone	U		6.2	410	µg/Kg-dry	1	5/1/2013 05:32
Anthracene	U		13	38	µg/Kg-dry	1	5/1/2013 05:32
Atrazine	U		13	410	µg/Kg-dry	1	5/1/2013 05:32
Benzaldehyde	U		16	410	µg/Kg-dry	1	5/1/2013 05:32
Benzo(a)anthracene	U		15	38	µg/Kg-dry	1	5/1/2013 05:32
Benzo(a)pyrene	U		19	38	µg/Kg-dry	1	5/1/2013 05:32
Benzo(b)fluoranthene	U		20	38	µg/Kg-dry	1	5/1/2013 05:32
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	5/1/2013 05:32
Benzo(k)fluoranthene	U		17	38	µg/Kg-dry	1	5/1/2013 05:32
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	5/1/2013 05:32
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	5/1/2013 05:32
Bis(2-chloroisopropyl)ether	U		9.8	200	µg/Kg-dry	1	5/1/2013 05:32
Bis(2-ethylhexyl)phthalate	U		12	410	µg/Kg-dry	1	5/1/2013 05:32
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	5/1/2013 05:32
Caprolactam	U		18	410	µg/Kg-dry	1	5/1/2013 05:32
Carbazole	U		14	200	µg/Kg-dry	1	5/1/2013 05:32
Chrysene	U		14	38	µg/Kg-dry	1	5/1/2013 05:32
Dibenzo(a,h)anthracene	U		21	38	µg/Kg-dry	1	5/1/2013 05:32
Dibenzofuran	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
Diethyl phthalate	U		10	410	µg/Kg-dry	1	5/1/2013 05:32
Dimethyl phthalate	U		10	410	µg/Kg-dry	1	5/1/2013 05:32
Di-n-butyl phthalate	U		13	410	µg/Kg-dry	1	5/1/2013 05:32
Di-n-octyl phthalate	U		15	200	µg/Kg-dry	1	5/1/2013 05:32
Fluoranthene	U		15	38	µg/Kg-dry	1	5/1/2013 05:32
Fluorene	U		11	38	µg/Kg-dry	1	5/1/2013 05:32
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
Hexachlorocyclopentadiene	U		44	410	µg/Kg-dry	1	5/1/2013 05:32
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	5/1/2013 05:32
Isophorone	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
Naphthalene	U		11	38	µg/Kg-dry	1	5/1/2013 05:32
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
N-Nitrosodiphenylamine	U		74	200	µg/Kg-dry	1	5/1/2013 05:32
Pentachlorophenol	U		19	410	µg/Kg-dry	1	5/1/2013 05:32
Phenanthrene	U		38	38	µg/Kg-dry	1	5/1/2013 05:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004A  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-12  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	200	µg/Kg-dry	1	5/1/2013 05:32
Pyrene	U		16	38	µg/Kg-dry	1	5/1/2013 05:32
Surr: 2,4,6-Tribromophenol	68.6			34-140	%REC	1	5/1/2013 05:32
Surr: 2-Fluorobiphenyl	83.9			12-100	%REC	1	5/1/2013 05:32
Surr: 2-Fluorophenol	96.5			33-117	%REC	1	5/1/2013 05:32
Surr: 4-Terphenyl-d14	127			25-137	%REC	1	5/1/2013 05:32
Surr: Nitrobenzene-d5	77.7			37-107	%REC	1	5/1/2013 05:32
Surr: Phenol-d6	85.2			40-106	%REC	1	5/1/2013 05:32
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,600	6,300	µg/Kg-dry	1	4/28/2013 17:33
Surr: Toluene-d8	96.4			70-130	%REC	1	4/28/2013 17:33
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.21	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,1,2,2-Tetrachloroethane	U		0.13	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,1,2-Trichloroethane	U		0.18	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,1,2-Trichlorotrifluoroethane	U		0.26	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,1-Dichloroethane	U		0.24	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,1-Dichloroethene	U		0.21	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,2,4-Trichlorobenzene	U		0.20	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,2-Dibromo-3-chloropropane	U		0.19	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,2-Dibromoethane	U		0.19	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,2-Dichlorobenzene	U		0.19	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,2-Dichloroethane	U		0.26	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,2-Dichloropropane	U		0.25	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,3-Dichlorobenzene	U		0.18	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
1,4-Dichlorobenzene	U		0.20	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
2-Butanone	U		0.73	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
2-Hexanone	U		0.29	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
4-Methyl-2-pentanone	U		0.19	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
<b>Acetone</b>	<b>5.0</b>	J	<b>0.89</b>	<b>9.5</b>	<b>µg/Kg-dry</b>	0.753	5/6/2013 13:01
<b>Benzene</b>	<b>0.32</b>	J	<b>0.24</b>	<b>4.7</b>	<b>µg/Kg-dry</b>	0.753	5/6/2013 13:01
Bromodichloromethane	U		0.20	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Bromoform	U		0.15	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Bromomethane	U		0.33	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
<b>Carbon disulfide</b>	<b>0.60</b>	J	<b>0.35</b>	<b>4.7</b>	<b>µg/Kg-dry</b>	0.753	5/6/2013 13:01
Carbon tetrachloride	U		0.19	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Chlorobenzene	U		0.21	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Chloroethane	U		0.53	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
<b>Chloroform</b>	<b>0.51</b>	J	<b>0.25</b>	<b>4.7</b>	<b>µg/Kg-dry</b>	0.753	5/6/2013 13:01

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-004A  
**Collection Date:** 4/24/2013 11:55 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-12  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.29	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
cis-1,2-Dichloroethene	U		0.28	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
cis-1,3-Dichloropropene	U		0.17	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Cyclohexane	U		0.30	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Dibromochloromethane	U		0.16	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Dichlorodifluoromethane	U		0.31	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
Ethylbenzene	U		0.18	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Isopropylbenzene	U		0.18	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
m,p-Xylene	U		0.36	2.4	µg/Kg-dry	0.753	5/6/2013 13:01
Methyl acetate	U		0.76	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
Methyl tert-butyl ether	U		0.24	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Methylcyclohexane	U		0.26	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
<b>Methylene chloride</b>	<b>0.67</b>	<b>J</b>	<b>0.27</b>	<b>4.7</b>	<b>µg/Kg-dry</b>	0.753	5/6/2013 13:01
o-Xylene	U		0.19	2.4	µg/Kg-dry	0.753	5/6/2013 13:01
Styrene	U		0.17	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Tetrachloroethene	U		0.28	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
<b>Toluene</b>	<b>0.24</b>	<b>J</b>	<b>0.22</b>	<b>4.7</b>	<b>µg/Kg-dry</b>	0.753	5/6/2013 13:01
trans-1,2-Dichloroethene	U		0.28	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
trans-1,3-Dichloropropene	U		0.18	9.5	µg/Kg-dry	0.753	5/6/2013 13:01
Trichloroethene	U		0.22	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Trichlorofluoromethane	U		1.1	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Vinyl chloride	U		0.29	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Xylenes, Total	U		0.55	4.7	µg/Kg-dry	0.753	5/6/2013 13:01
Surr: 1,2-Dichloroethane-d4	110			70-120	%REC	0.753	5/6/2013 13:01
Surr: 4-Bromofluorobenzene	97.4			75-120	%REC	0.753	5/6/2013 13:01
Surr: Dibromofluoromethane	101			85-115	%REC	0.753	5/6/2013 13:01
Surr: Toluene-d8	97.2			85-120	%REC	0.753	5/6/2013 13:01
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>21</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-13  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.0062	J	0.00092	0.018	mg/Kg-dry	1	5/2/2013 14:59
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	2.7		0.055	0.41	mg/Kg-dry	1	5/3/2013 23:29
Barium	80		0.011	0.41	mg/Kg-dry	1	5/3/2013 23:29
Cadmium	0.18		0.0016	0.16	mg/Kg-dry	1	5/3/2013 23:29
Chromium	7.1		0.067	0.41	mg/Kg-dry	1	5/3/2013 23:29
Lead	6.8		0.0016	0.41	mg/Kg-dry	1	5/3/2013 23:29
Selenium	0.38	J	0.052	0.41	mg/Kg-dry	1	5/3/2013 23:29
Silver	0.020	J	0.0016	0.41	mg/Kg-dry	1	5/3/2013 23:29
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	30		1.5	3.5	mg/Kg-dry	1	5/6/2013 12:38
ORO (C21-C35)	26		1.7	3.5	mg/Kg-dry	1	5/6/2013 12:38
Surr: 4-Terphenyl-d14	88.9			25-137	%REC	1	5/6/2013 12:38
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.0	400	µg/Kg-dry	1	5/1/2013 05:52
2,4,5-Trichlorophenol	U		9.7	190	µg/Kg-dry	1	5/1/2013 05:52
2,4,6-Trichlorophenol	U		9.7	190	µg/Kg-dry	1	5/1/2013 05:52
2,4-Dichlorophenol	U		12	190	µg/Kg-dry	1	5/1/2013 05:52
2,4-Dimethylphenol	U		50	400	µg/Kg-dry	1	5/1/2013 05:52
2,4-Dinitrophenol	U		52	800	µg/Kg-dry	1	5/1/2013 05:52
2,4-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
2-Chloronaphthalene	U		11	97	µg/Kg-dry	1	5/1/2013 05:52
2-Chlorophenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
2-Methylnaphthalene	U		12	97	µg/Kg-dry	1	5/1/2013 05:52
2-Methylphenol	U		12	190	µg/Kg-dry	1	5/1/2013 05:52
2-Nitroaniline	U		9.2	800	µg/Kg-dry	1	5/1/2013 05:52
2-Nitrophenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
3,3'-Dichlorobenzidine	U		11	800	µg/Kg-dry	1	5/1/2013 05:52
3-Nitroaniline	U		99	800	µg/Kg-dry	1	5/1/2013 05:52
4,6-Dinitro-2-methylphenol	U		58	400	µg/Kg-dry	1	5/1/2013 05:52
4-Bromophenyl phenyl ether	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
4-Chloroaniline	U		15	800	µg/Kg-dry	1	5/1/2013 05:52
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
4-Methylphenol	U		12	190	µg/Kg-dry	1	5/1/2013 05:52
4-Nitroaniline	U		18	800	µg/Kg-dry	1	5/1/2013 05:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-13  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		49	800	µg/Kg-dry	1	5/1/2013 05:52
Acenaphthene	U		11	36	µg/Kg-dry	1	5/1/2013 05:52
Acenaphthylene	U		11	36	µg/Kg-dry	1	5/1/2013 05:52
Acetophenone	U		6.1	400	µg/Kg-dry	1	5/1/2013 05:52
Anthracene	U		12	36	µg/Kg-dry	1	5/1/2013 05:52
Atrazine	U		12	400	µg/Kg-dry	1	5/1/2013 05:52
Benzaldehyde	U		15	400	µg/Kg-dry	1	5/1/2013 05:52
Benzo(a)anthracene	U		15	36	µg/Kg-dry	1	5/1/2013 05:52
Benzo(a)pyrene	U		19	36	µg/Kg-dry	1	5/1/2013 05:52
Benzo(b)fluoranthene	U		20	36	µg/Kg-dry	1	5/1/2013 05:52
Benzo(g,h,i)perylene	U		29	36	µg/Kg-dry	1	5/1/2013 05:52
Benzo(k)fluoranthene	U		17	36	µg/Kg-dry	1	5/1/2013 05:52
Bis(2-chloroethoxy)methane	U		10	190	µg/Kg-dry	1	5/1/2013 05:52
Bis(2-chloroethyl)ether	U		10	190	µg/Kg-dry	1	5/1/2013 05:52
Bis(2-chloroisopropyl)ether	U		9.5	190	µg/Kg-dry	1	5/1/2013 05:52
Bis(2-ethylhexyl)phthalate	U		12	400	µg/Kg-dry	1	5/1/2013 05:52
Butyl benzyl phthalate	U		17	190	µg/Kg-dry	1	5/1/2013 05:52
Caprolactam	U		18	400	µg/Kg-dry	1	5/1/2013 05:52
Carbazole	U		14	190	µg/Kg-dry	1	5/1/2013 05:52
Chrysene	U		14	36	µg/Kg-dry	1	5/1/2013 05:52
Dibenzo(a,h)anthracene	U		21	36	µg/Kg-dry	1	5/1/2013 05:52
Dibenzofuran	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
Diethyl phthalate	U		10	400	µg/Kg-dry	1	5/1/2013 05:52
Dimethyl phthalate	U		10	400	µg/Kg-dry	1	5/1/2013 05:52
Di-n-butyl phthalate	U		12	400	µg/Kg-dry	1	5/1/2013 05:52
Di-n-octyl phthalate	U		15	190	µg/Kg-dry	1	5/1/2013 05:52
Fluoranthene	U		14	36	µg/Kg-dry	1	5/1/2013 05:52
Fluorene	U		11	36	µg/Kg-dry	1	5/1/2013 05:52
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
Hexachlorobutadiene	U		10	190	µg/Kg-dry	1	5/1/2013 05:52
Hexachlorocyclopentadiene	U		42	400	µg/Kg-dry	1	5/1/2013 05:52
Hexachloroethane	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
Indeno(1,2,3-cd)pyrene	U		23	36	µg/Kg-dry	1	5/1/2013 05:52
Isophorone	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
Naphthalene	U		10	36	µg/Kg-dry	1	5/1/2013 05:52
Nitrobenzene	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
N-Nitrosodi-n-propylamine	U		11	190	µg/Kg-dry	1	5/1/2013 05:52
N-Nitrosodiphenylamine	U		72	190	µg/Kg-dry	1	5/1/2013 05:52
Pentachlorophenol	U		18	400	µg/Kg-dry	1	5/1/2013 05:52
Phenanthrene	U		36	36	µg/Kg-dry	1	5/1/2013 05:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-13  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	190	µg/Kg-dry	1	5/1/2013 05:52
Pyrene	U		15	36	µg/Kg-dry	1	5/1/2013 05:52
Surr: 2,4,6-Tribromophenol	52.2			34-140	%REC	1	5/1/2013 05:52
Surr: 2-Fluorobiphenyl	64.7			12-100	%REC	1	5/1/2013 05:52
Surr: 2-Fluorophenol	79.0			33-117	%REC	1	5/1/2013 05:52
Surr: 4-Terphenyl-d14	108			25-137	%REC	1	5/1/2013 05:52
Surr: Nitrobenzene-d5	62.3			37-107	%REC	1	5/1/2013 05:52
Surr: Phenol-d6	70.7			40-106	%REC	1	5/1/2013 05:52
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
<b>GRO (C6-C10)</b>	<b>2,900</b>	<b>J</b>	<b>1,500</b>	<b>6,100</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/28/2013 17:57
Surr: Toluene-d8	97.7			70-130	%REC	1	4/28/2013 17:57
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	4/28/2013 17:57
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	4/28/2013 17:57
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
1,1-Dichloroethane	U		13	37	µg/Kg-dry	1	4/28/2013 17:57
1,1-Dichloroethene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	4/28/2013 17:57
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	4/28/2013 17:57
1,2-Dibromoethane	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
1,2-Dichloroethane	U		17	37	µg/Kg-dry	1	4/28/2013 17:57
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	4/28/2013 17:57
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
2-Butanone	U		90	240	µg/Kg-dry	1	4/28/2013 17:57
2-Hexanone	U		9.0	37	µg/Kg-dry	1	4/28/2013 17:57
4-Methyl-2-pentanone	U		12	37	µg/Kg-dry	1	4/28/2013 17:57
Acetone	U		77	120	µg/Kg-dry	1	4/28/2013 17:57
Benzene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
Bromodichloromethane	U		8.2	37	µg/Kg-dry	1	4/28/2013 17:57
Bromoform	U		7.2	37	µg/Kg-dry	1	4/28/2013 17:57
Bromomethane	U		14	91	µg/Kg-dry	1	4/28/2013 17:57
Carbon disulfide	U		18	37	µg/Kg-dry	1	4/28/2013 17:57
Carbon tetrachloride	U		10	37	µg/Kg-dry	1	4/28/2013 17:57
Chlorobenzene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
Chloroethane	U		78	120	µg/Kg-dry	1	4/28/2013 17:57
Chloroform	U		15	37	µg/Kg-dry	1	4/28/2013 17:57

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-13  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		20	120	µg/Kg-dry	1	4/28/2013 17:57
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
cis-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	4/28/2013 17:57
Cyclohexane	U		16	37	µg/Kg-dry	1	4/28/2013 17:57
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	4/28/2013 17:57
Dichlorodifluoromethane	U		16	37	µg/Kg-dry	1	4/28/2013 17:57
Ethylbenzene	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
Isopropylbenzene	U		16	37	µg/Kg-dry	1	4/28/2013 17:57
m,p-Xylene	U		28	73	µg/Kg-dry	1	4/28/2013 17:57
Methyl acetate	U		49	240	µg/Kg-dry	1	4/28/2013 17:57
Methyl tert-butyl ether	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
Methylcyclohexane	U		17	37	µg/Kg-dry	1	4/28/2013 17:57
Methylene chloride	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
o-Xylene	U		15	37	µg/Kg-dry	1	4/28/2013 17:57
Styrene	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
Tetrachloroethene	U		16	37	µg/Kg-dry	1	4/28/2013 17:57
Toluene	U		14	37	µg/Kg-dry	1	4/28/2013 17:57
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	4/28/2013 17:57
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	4/28/2013 17:57
Trichloroethene	U		17	37	µg/Kg-dry	1	4/28/2013 17:57
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	4/28/2013 17:57
Vinyl chloride	U		16	37	µg/Kg-dry	1	4/28/2013 17:57
Xylenes, Total	U		43	110	µg/Kg-dry	1	4/28/2013 17:57
Surr: 1,2-Dichloroethane-d4	91.0			70-130	%REC	1	4/28/2013 17:57
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	4/28/2013 17:57
Surr: Dibromofluoromethane	90.8			70-130	%REC	1	4/28/2013 17:57
Surr: Toluene-d8	100			70-130	%REC	1	4/28/2013 17:57
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>18</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005A  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-14  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.0031	J	0.00076	0.015	mg/Kg-dry	1	5/2/2013 15:11
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	0.94		0.057	0.42	mg/Kg-dry	1	5/3/2013 23:35
Barium	23		0.012	0.42	mg/Kg-dry	1	5/3/2013 23:35
Cadmium	0.061	J	0.0017	0.17	mg/Kg-dry	1	5/3/2013 23:35
Chromium	2.5		0.069	0.42	mg/Kg-dry	1	5/3/2013 23:35
Lead	2.5		0.0017	0.42	mg/Kg-dry	1	5/3/2013 23:35
Selenium	0.14	J	0.054	0.42	mg/Kg-dry	1	5/3/2013 23:35
Silver	0.0058	J	0.0017	0.42	mg/Kg-dry	1	5/3/2013 23:35
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.4	3.2	mg/Kg-dry	1	5/6/2013 12:58
ORO (C21-C35)	U		1.5	3.2	mg/Kg-dry	1	5/6/2013 12:58
Surr: 4-Terphenyl-d14	74.1			25-137	%REC	1	5/6/2013 12:58
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		5.4	360	µg/Kg-dry	1	5/1/2013 06:12
2,4,5-Trichlorophenol	U		8.7	170	µg/Kg-dry	1	5/1/2013 06:12
2,4,6-Trichlorophenol	U		8.7	170	µg/Kg-dry	1	5/1/2013 06:12
2,4-Dichlorophenol	U		11	170	µg/Kg-dry	1	5/1/2013 06:12
2,4-Dimethylphenol	U		44	360	µg/Kg-dry	1	5/1/2013 06:12
2,4-Dinitrophenol	U		46	720	µg/Kg-dry	1	5/1/2013 06:12
2,4-Dinitrotoluene	U		9.7	170	µg/Kg-dry	1	5/1/2013 06:12
2,6-Dinitrotoluene	U		10	170	µg/Kg-dry	1	5/1/2013 06:12
2-Chloronaphthalene	U		9.9	87	µg/Kg-dry	1	5/1/2013 06:12
2-Chlorophenol	U		9.7	170	µg/Kg-dry	1	5/1/2013 06:12
2-Methylnaphthalene	U		11	87	µg/Kg-dry	1	5/1/2013 06:12
2-Methylphenol	U		10	170	µg/Kg-dry	1	5/1/2013 06:12
2-Nitroaniline	U		8.3	720	µg/Kg-dry	1	5/1/2013 06:12
2-Nitrophenol	U		9.5	170	µg/Kg-dry	1	5/1/2013 06:12
3,3'-Dichlorobenzidine	U		10	720	µg/Kg-dry	1	5/1/2013 06:12
3-Nitroaniline	U		88	720	µg/Kg-dry	1	5/1/2013 06:12
4,6-Dinitro-2-methylphenol	U		52	360	µg/Kg-dry	1	5/1/2013 06:12
4-Bromophenyl phenyl ether	U		9.4	170	µg/Kg-dry	1	5/1/2013 06:12
4-Chloro-3-methylphenol	U		9.8	170	µg/Kg-dry	1	5/1/2013 06:12
4-Chloroaniline	U		14	720	µg/Kg-dry	1	5/1/2013 06:12
4-Chlorophenyl phenyl ether	U		9.9	170	µg/Kg-dry	1	5/1/2013 06:12
4-Methylphenol	U		11	170	µg/Kg-dry	1	5/1/2013 06:12
4-Nitroaniline	U		16	720	µg/Kg-dry	1	5/1/2013 06:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005A  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-14  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		44	720	µg/Kg-dry	1	5/1/2013 06:12
Acenaphthene	U		9.9	33	µg/Kg-dry	1	5/1/2013 06:12
Acenaphthylene	U		10	33	µg/Kg-dry	1	5/1/2013 06:12
Acetophenone	U		5.4	360	µg/Kg-dry	1	5/1/2013 06:12
Anthracene	U		11	33	µg/Kg-dry	1	5/1/2013 06:12
Atrazine	U		11	360	µg/Kg-dry	1	5/1/2013 06:12
Benzaldehyde	U		14	360	µg/Kg-dry	1	5/1/2013 06:12
Benzo(a)anthracene	U		13	33	µg/Kg-dry	1	5/1/2013 06:12
Benzo(a)pyrene	U		17	33	µg/Kg-dry	1	5/1/2013 06:12
Benzo(b)fluoranthene	U		18	33	µg/Kg-dry	1	5/1/2013 06:12
Benzo(g,h,i)perylene	U		26	33	µg/Kg-dry	1	5/1/2013 06:12
Benzo(k)fluoranthene	U		15	33	µg/Kg-dry	1	5/1/2013 06:12
Bis(2-chloroethoxy)methane	U		8.9	170	µg/Kg-dry	1	5/1/2013 06:12
Bis(2-chloroethyl)ether	U		9.1	170	µg/Kg-dry	1	5/1/2013 06:12
Bis(2-chloroisopropyl)ether	U		8.5	170	µg/Kg-dry	1	5/1/2013 06:12
Bis(2-ethylhexyl)phthalate	U		11	360	µg/Kg-dry	1	5/1/2013 06:12
Butyl benzyl phthalate	U		15	170	µg/Kg-dry	1	5/1/2013 06:12
Caprolactam	U		16	360	µg/Kg-dry	1	5/1/2013 06:12
Carbazole	U		12	170	µg/Kg-dry	1	5/1/2013 06:12
Chrysene	U		12	33	µg/Kg-dry	1	5/1/2013 06:12
Dibenzo(a,h)anthracene	U		19	33	µg/Kg-dry	1	5/1/2013 06:12
Dibenzofuran	U		9.9	170	µg/Kg-dry	1	5/1/2013 06:12
Diethyl phthalate	U		9.0	360	µg/Kg-dry	1	5/1/2013 06:12
Dimethyl phthalate	U		9.1	360	µg/Kg-dry	1	5/1/2013 06:12
Di-n-butyl phthalate	U		11	360	µg/Kg-dry	1	5/1/2013 06:12
Di-n-octyl phthalate	U		13	170	µg/Kg-dry	1	5/1/2013 06:12
Fluoranthene	U		13	33	µg/Kg-dry	1	5/1/2013 06:12
Fluorene	U		9.5	33	µg/Kg-dry	1	5/1/2013 06:12
Hexachlorobenzene	U		9.9	170	µg/Kg-dry	1	5/1/2013 06:12
Hexachlorobutadiene	U		9.2	170	µg/Kg-dry	1	5/1/2013 06:12
Hexachlorocyclopentadiene	U		38	360	µg/Kg-dry	1	5/1/2013 06:12
Hexachloroethane	U		9.5	170	µg/Kg-dry	1	5/1/2013 06:12
Indeno(1,2,3-cd)pyrene	U		21	33	µg/Kg-dry	1	5/1/2013 06:12
Isophorone	U		9.4	170	µg/Kg-dry	1	5/1/2013 06:12
Naphthalene	U		9.3	33	µg/Kg-dry	1	5/1/2013 06:12
Nitrobenzene	U		9.4	170	µg/Kg-dry	1	5/1/2013 06:12
N-Nitrosodi-n-propylamine	U		9.5	170	µg/Kg-dry	1	5/1/2013 06:12
N-Nitrosodiphenylamine	U		65	170	µg/Kg-dry	1	5/1/2013 06:12
Pentachlorophenol	U		16	360	µg/Kg-dry	1	5/1/2013 06:12
Phenanthrene	U		33	33	µg/Kg-dry	1	5/1/2013 06:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005A  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-14  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		9.2	170	µg/Kg-dry	1	5/1/2013 06:12
Pyrene	U		14	33	µg/Kg-dry	1	5/1/2013 06:12
Surr: 2,4,6-Tribromophenol	45.3			34-140	%REC	1	5/1/2013 06:12
Surr: 2-Fluorobiphenyl	59.5			12-100	%REC	1	5/1/2013 06:12
Surr: 2-Fluorophenol	67.3			33-117	%REC	1	5/1/2013 06:12
Surr: 4-Terphenyl-d14	86.0			25-137	%REC	1	5/1/2013 06:12
Surr: Nitrobenzene-d5	57.0			37-107	%REC	1	5/1/2013 06:12
Surr: Phenol-d6	57.5			40-106	%REC	1	5/1/2013 06:12
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
<b>GRO (C6-C10)</b>	<b>5,500</b>		<b>1,400</b>	<b>5,500</b>	<b>µg/Kg-dry</b>	1	4/28/2013 18:21
Surr: Toluene-d8	97.8			70-130	%REC	1	4/28/2013 18:21
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
1,1,2,2-Tetrachloroethane	U		14	33	µg/Kg-dry	1	4/28/2013 18:21
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	4/28/2013 18:21
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	4/28/2013 18:21
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	4/28/2013 18:21
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	4/28/2013 18:21
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	4/28/2013 18:21
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	4/28/2013 18:21
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	4/28/2013 18:21
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	4/28/2013 18:21
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
2-Butanone	U		82	220	µg/Kg-dry	1	4/28/2013 18:21
2-Hexanone	U		8.1	33	µg/Kg-dry	1	4/28/2013 18:21
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	4/28/2013 18:21
Acetone	U		70	110	µg/Kg-dry	1	4/28/2013 18:21
Benzene	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	4/28/2013 18:21
Bromoform	U		6.5	33	µg/Kg-dry	1	4/28/2013 18:21
Bromomethane	U		13	82	µg/Kg-dry	1	4/28/2013 18:21
Carbon disulfide	U		16	33	µg/Kg-dry	1	4/28/2013 18:21
Carbon tetrachloride	U		9.4	33	µg/Kg-dry	1	4/28/2013 18:21
Chlorobenzene	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
Chloroethane	U		70	110	µg/Kg-dry	1	4/28/2013 18:21
Chloroform	U		14	33	µg/Kg-dry	1	4/28/2013 18:21

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-005A  
**Collection Date:** 4/24/2013 01:20 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-14  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		18	110	µg/Kg-dry	1	4/28/2013 18:21
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	4/28/2013 18:21
Cyclohexane	U		15	33	µg/Kg-dry	1	4/28/2013 18:21
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	4/28/2013 18:21
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	4/28/2013 18:21
Ethylbenzene	U		12	33	µg/Kg-dry	1	4/28/2013 18:21
Isopropylbenzene	U		14	33	µg/Kg-dry	1	4/28/2013 18:21
m,p-Xylene	U		25	66	µg/Kg-dry	1	4/28/2013 18:21
Methyl acetate	U		44	220	µg/Kg-dry	1	4/28/2013 18:21
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	4/28/2013 18:21
Methylcyclohexane	U		15	33	µg/Kg-dry	1	4/28/2013 18:21
Methylene chloride	U		13	33	µg/Kg-dry	1	4/28/2013 18:21
o-Xylene	U		14	33	µg/Kg-dry	1	4/28/2013 18:21
Styrene	U		12	33	µg/Kg-dry	1	4/28/2013 18:21
Tetrachloroethene	U		15	33	µg/Kg-dry	1	4/28/2013 18:21
Toluene	U		12	33	µg/Kg-dry	1	4/28/2013 18:21
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	4/28/2013 18:21
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	4/28/2013 18:21
Trichloroethene	U		15	33	µg/Kg-dry	1	4/28/2013 18:21
Trichlorofluoromethane	U		9.1	33	µg/Kg-dry	1	4/28/2013 18:21
Vinyl chloride	U		15	33	µg/Kg-dry	1	4/28/2013 18:21
Xylenes, Total	U		39	99	µg/Kg-dry	1	4/28/2013 18:21
Surr: 1,2-Dichloroethane-d4	88.0			70-130	%REC	1	4/28/2013 18:21
Surr: 4-Bromofluorobenzene	99.5			70-130	%REC	1	4/28/2013 18:21
Surr: Dibromofluoromethane	90.2			70-130	%REC	1	4/28/2013 18:21
Surr: Toluene-d8	99.3			70-130	%REC	1	4/28/2013 18:21
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>8.9</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-15  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.0085	J	0.00097	0.019	mg/Kg-dry	1	5/2/2013 15:13
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	2.0	J	0.29	2.1	mg/Kg-dry	5	5/3/2013 23:41
Barium	210		0.059	2.1	mg/Kg-dry	5	5/3/2013 23:41
Cadmium	0.49	J	0.0084	0.84	mg/Kg-dry	5	5/3/2013 23:41
Chromium	9.3		0.34	2.1	mg/Kg-dry	5	5/3/2013 23:41
Lead	10		0.0084	2.1	mg/Kg-dry	5	5/3/2013 23:41
Selenium	0.64	J	0.27	2.1	mg/Kg-dry	5	5/3/2013 23:41
Silver	0.033	J	0.0084	2.1	mg/Kg-dry	5	5/3/2013 23:41
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	5/5/2013 21:20
ORO (C21-C35)	83		1.7	3.5	mg/Kg-dry	1	5/5/2013 21:20
Surr: 4-Terphenyl-d14	102			25-137	%REC	1	5/5/2013 21:20
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.0	400	µg/Kg-dry	1	4/30/2013 21:51
2,4,5-Trichlorophenol	U		9.7	190	µg/Kg-dry	1	4/30/2013 21:51
2,4,6-Trichlorophenol	U		9.7	190	µg/Kg-dry	1	4/30/2013 21:51
2,4-Dichlorophenol	U		12	190	µg/Kg-dry	1	4/30/2013 21:51
2,4-Dimethylphenol	U		49	400	µg/Kg-dry	1	4/30/2013 21:51
2,4-Dinitrophenol	U		52	800	µg/Kg-dry	1	4/30/2013 21:51
2,4-Dinitrotoluene	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
2-Chloronaphthalene	U		11	97	µg/Kg-dry	1	4/30/2013 21:51
2-Chlorophenol	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
2-Methylnaphthalene	U		12	97	µg/Kg-dry	1	4/30/2013 21:51
2-Methylphenol	U		12	190	µg/Kg-dry	1	4/30/2013 21:51
2-Nitroaniline	U		9.2	800	µg/Kg-dry	1	4/30/2013 21:51
2-Nitrophenol	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
3,3'-Dichlorobenzidine	U		11	800	µg/Kg-dry	1	4/30/2013 21:51
3-Nitroaniline	U		99	800	µg/Kg-dry	1	4/30/2013 21:51
4,6-Dinitro-2-methylphenol	U		58	400	µg/Kg-dry	1	4/30/2013 21:51
4-Bromophenyl phenyl ether	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
4-Chloroaniline	U		15	800	µg/Kg-dry	1	4/30/2013 21:51
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
4-Methylphenol	U		12	190	µg/Kg-dry	1	4/30/2013 21:51
4-Nitroaniline	U		18	800	µg/Kg-dry	1	4/30/2013 21:51

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-15  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		49	800	µg/Kg-dry	1	4/30/2013 21:51
Acenaphthene	U		11	36	µg/Kg-dry	1	4/30/2013 21:51
Acenaphthylene	U		11	36	µg/Kg-dry	1	4/30/2013 21:51
Acetophenone	U		6.0	400	µg/Kg-dry	1	4/30/2013 21:51
<b>Anthracene</b>	<b>120</b>		<b>12</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Atrazine	U		12	400	µg/Kg-dry	1	4/30/2013 21:51
Benzaldehyde	U		15	400	µg/Kg-dry	1	4/30/2013 21:51
<b>Benzo(a)anthracene</b>	<b>280</b>		<b>15</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Benzo(a)pyrene</b>	<b>240</b>		<b>19</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Benzo(b)fluoranthene</b>	<b>300</b>		<b>20</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Benzo(g,h,i)perylene</b>	<b>140</b>		<b>29</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Benzo(k)fluoranthene</b>	<b>110</b>		<b>17</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Bis(2-chloroethoxy)methane	U		10	190	µg/Kg-dry	1	4/30/2013 21:51
Bis(2-chloroethyl)ether	U		10	190	µg/Kg-dry	1	4/30/2013 21:51
Bis(2-chloroisopropyl)ether	U		9.5	190	µg/Kg-dry	1	4/30/2013 21:51
<b>Bis(2-ethylhexyl)phthalate</b>	<b>69</b>	J	<b>12</b>	<b>400</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Butyl benzyl phthalate	U		17	190	µg/Kg-dry	1	4/30/2013 21:51
Caprolactam	U		18	400	µg/Kg-dry	1	4/30/2013 21:51
<b>Carbazole</b>	<b>63</b>	J	<b>14</b>	<b>190</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Chrysene</b>	<b>240</b>		<b>14</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Dibenzo(a,h)anthracene</b>	<b>65</b>		<b>21</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Dibenzofuran	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
Diethyl phthalate	U		10	400	µg/Kg-dry	1	4/30/2013 21:51
Dimethyl phthalate	U		10	400	µg/Kg-dry	1	4/30/2013 21:51
Di-n-butyl phthalate	U		12	400	µg/Kg-dry	1	4/30/2013 21:51
<b>Di-n-octyl phthalate</b>	<b>130</b>	J	<b>15</b>	<b>190</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Fluoranthene</b>	<b>440</b>		<b>14</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
<b>Fluorene</b>	<b>30</b>	J	<b>11</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
Hexachlorobutadiene	U		10	190	µg/Kg-dry	1	4/30/2013 21:51
Hexachlorocyclopentadiene	U		42	400	µg/Kg-dry	1	4/30/2013 21:51
Hexachloroethane	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
<b>Indeno(1,2,3-cd)pyrene</b>	<b>180</b>		<b>23</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Isophorone	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
Naphthalene	U		10	36	µg/Kg-dry	1	4/30/2013 21:51
Nitrobenzene	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
N-Nitrosodi-n-propylamine	U		11	190	µg/Kg-dry	1	4/30/2013 21:51
N-Nitrosodiphenylamine	U		72	190	µg/Kg-dry	1	4/30/2013 21:51
Pentachlorophenol	U		18	400	µg/Kg-dry	1	4/30/2013 21:51
<b>Phenanthrene</b>	<b>340</b>		<b>36</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-15  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	190	µg/Kg-dry	1	4/30/2013 21:51
<b>Pyrene</b>	<b>460</b>		<b>15</b>	<b>36</b>	<b>µg/Kg-dry</b>	1	4/30/2013 21:51
Surr: 2,4,6-Tribromophenol	55.3			34-140	%REC	1	4/30/2013 21:51
Surr: 2-Fluorobiphenyl	78.3			12-100	%REC	1	4/30/2013 21:51
Surr: 2-Fluorophenol	86.8			33-117	%REC	1	4/30/2013 21:51
Surr: 4-Terphenyl-d14	121			25-137	%REC	1	4/30/2013 21:51
Surr: Nitrobenzene-d5	71.5			37-107	%REC	1	4/30/2013 21:51
Surr: Phenol-d6	77.7			40-106	%REC	1	4/30/2013 21:51
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
<b>GRO (C6-C10)</b>	<b>3,800</b>	J	<b>1,500</b>	<b>6,200</b>	<b>µg/Kg-dry</b>	1	4/28/2013 18:45
Surr: Toluene-d8	94.8			70-130	%REC	1	4/28/2013 18:45
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	4/28/2013 18:45
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	4/28/2013 18:45
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	4/28/2013 18:45
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	4/28/2013 18:45
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	4/28/2013 18:45
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	4/28/2013 18:45
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	4/28/2013 18:45
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	4/28/2013 18:45
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	4/28/2013 18:45
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	4/28/2013 18:45
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
2-Butanone	U		91	250	µg/Kg-dry	1	4/28/2013 18:45
2-Hexanone	U		9.1	37	µg/Kg-dry	1	4/28/2013 18:45
4-Methyl-2-pentanone	U		12	37	µg/Kg-dry	1	4/28/2013 18:45
Acetone	U		78	120	µg/Kg-dry	1	4/28/2013 18:45
Benzene	U		15	37	µg/Kg-dry	1	4/28/2013 18:45
Bromodichloromethane	U		8.3	37	µg/Kg-dry	1	4/28/2013 18:45
Bromoform	U		7.3	37	µg/Kg-dry	1	4/28/2013 18:45
Bromomethane	U		14	92	µg/Kg-dry	1	4/28/2013 18:45
Carbon disulfide	U		18	37	µg/Kg-dry	1	4/28/2013 18:45
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	4/28/2013 18:45
Chlorobenzene	U		15	37	µg/Kg-dry	1	4/28/2013 18:45
Chloroethane	U		78	120	µg/Kg-dry	1	4/28/2013 18:45
Chloroform	U		15	37	µg/Kg-dry	1	4/28/2013 18:45

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-15  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		21	120	µg/Kg-dry	1	4/28/2013 18:45
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	4/28/2013 18:45
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	4/28/2013 18:45
Cyclohexane	U		17	37	µg/Kg-dry	1	4/28/2013 18:45
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	4/28/2013 18:45
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	4/28/2013 18:45
Ethylbenzene	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
Isopropylbenzene	U		16	37	µg/Kg-dry	1	4/28/2013 18:45
m,p-Xylene	U		28	74	µg/Kg-dry	1	4/28/2013 18:45
<b>Methyl acetate</b>	<b>200</b>	<b>J</b>	<b>50</b>	<b>250</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>4/28/2013 18:45</b>
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	4/28/2013 18:45
Methylcyclohexane	U		17	37	µg/Kg-dry	1	4/28/2013 18:45
Methylene chloride	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
o-Xylene	U		16	37	µg/Kg-dry	1	4/28/2013 18:45
Styrene	U		14	37	µg/Kg-dry	1	4/28/2013 18:45
Tetrachloroethene	U		16	37	µg/Kg-dry	1	4/28/2013 18:45
<b>Toluene</b>	<b>23</b>	<b>J</b>	<b>14</b>	<b>37</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>4/28/2013 18:45</b>
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	4/28/2013 18:45
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	4/28/2013 18:45
Trichloroethene	U		17	37	µg/Kg-dry	1	4/28/2013 18:45
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	4/28/2013 18:45
Vinyl chloride	U		17	37	µg/Kg-dry	1	4/28/2013 18:45
Xylenes, Total	U		44	110	µg/Kg-dry	1	4/28/2013 18:45
Surr: 1,2-Dichloroethane-d4	89.8			70-130	%REC	1	4/28/2013 18:45
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	4/28/2013 18:45
Surr: Dibromofluoromethane	90.6			70-130	%REC	1	4/28/2013 18:45
Surr: Toluene-d8	98.2			70-130	%REC	1	4/28/2013 18:45
<b>MOISTURE</b>			<b>Method: A2540 G</b>				<b>Analyst: KF</b>
<b>Moisture</b>	<b>19</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006A  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-16  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.0099	J	0.00092	0.018	mg/Kg-dry	1	5/2/2013 15:15
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	2.4		0.25	1.9	mg/Kg-dry	5	5/3/2013 23:46
Barium	190		0.052	1.9	mg/Kg-dry	5	5/3/2013 23:46
Cadmium	0.40	J	0.0075	0.75	mg/Kg-dry	5	5/3/2013 23:46
Chromium	10		0.31	1.9	mg/Kg-dry	5	5/3/2013 23:46
Lead	10		0.0075	1.9	mg/Kg-dry	5	5/3/2013 23:46
Selenium	0.61	J	0.24	1.9	mg/Kg-dry	5	5/3/2013 23:46
Silver	0.025	J	0.0075	1.9	mg/Kg-dry	5	5/3/2013 23:46
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.4	3.3	mg/Kg-dry	1	5/6/2013 01:18
ORO (C21-C35)	U		1.6	3.3	mg/Kg-dry	1	5/6/2013 01:18
Surr: 4-Terphenyl-d14	73.3			25-137	%REC	1	5/6/2013 01:18
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		5.5	370	µg/Kg-dry	1	5/1/2013 06:32
2,4,5-Trichlorophenol	U		8.9	180	µg/Kg-dry	1	5/1/2013 06:32
2,4,6-Trichlorophenol	U		8.9	180	µg/Kg-dry	1	5/1/2013 06:32
2,4-Dichlorophenol	U		11	180	µg/Kg-dry	1	5/1/2013 06:32
2,4-Dimethylphenol	U		46	370	µg/Kg-dry	1	5/1/2013 06:32
2,4-Dinitrophenol	U		47	740	µg/Kg-dry	1	5/1/2013 06:32
2,4-Dinitrotoluene	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
2,6-Dinitrotoluene	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
2-Chloronaphthalene	U		10	89	µg/Kg-dry	1	5/1/2013 06:32
2-Chlorophenol	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
2-Methylnaphthalene	U		11	89	µg/Kg-dry	1	5/1/2013 06:32
2-Methylphenol	U		11	180	µg/Kg-dry	1	5/1/2013 06:32
2-Nitroaniline	U		8.5	740	µg/Kg-dry	1	5/1/2013 06:32
2-Nitrophenol	U		9.7	180	µg/Kg-dry	1	5/1/2013 06:32
3,3'-Dichlorobenzidine	U		10	740	µg/Kg-dry	1	5/1/2013 06:32
3-Nitroaniline	U		91	740	µg/Kg-dry	1	5/1/2013 06:32
4,6-Dinitro-2-methylphenol	U		54	370	µg/Kg-dry	1	5/1/2013 06:32
4-Bromophenyl phenyl ether	U		9.7	180	µg/Kg-dry	1	5/1/2013 06:32
4-Chloro-3-methylphenol	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
4-Chloroaniline	U		14	740	µg/Kg-dry	1	5/1/2013 06:32
4-Chlorophenyl phenyl ether	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
4-Methylphenol	U		11	180	µg/Kg-dry	1	5/1/2013 06:32
4-Nitroaniline	U		17	740	µg/Kg-dry	1	5/1/2013 06:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006A  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-16  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		45	740	µg/Kg-dry	1	5/1/2013 06:32
Acenaphthene	U		10	34	µg/Kg-dry	1	5/1/2013 06:32
Acenaphthylene	U		11	34	µg/Kg-dry	1	5/1/2013 06:32
Acetophenone	U		5.6	370	µg/Kg-dry	1	5/1/2013 06:32
Anthracene	U		11	34	µg/Kg-dry	1	5/1/2013 06:32
Atrazine	U		11	370	µg/Kg-dry	1	5/1/2013 06:32
Benzaldehyde	U		14	370	µg/Kg-dry	1	5/1/2013 06:32
Benzo(a)anthracene	U		14	34	µg/Kg-dry	1	5/1/2013 06:32
Benzo(a)pyrene	U		17	34	µg/Kg-dry	1	5/1/2013 06:32
Benzo(b)fluoranthene	U		18	34	µg/Kg-dry	1	5/1/2013 06:32
Benzo(g,h,i)perylene	U		26	34	µg/Kg-dry	1	5/1/2013 06:32
Benzo(k)fluoranthene	U		15	34	µg/Kg-dry	1	5/1/2013 06:32
Bis(2-chloroethoxy)methane	U		9.2	180	µg/Kg-dry	1	5/1/2013 06:32
Bis(2-chloroethyl)ether	U		9.3	180	µg/Kg-dry	1	5/1/2013 06:32
Bis(2-chloroisopropyl)ether	U		8.7	180	µg/Kg-dry	1	5/1/2013 06:32
Bis(2-ethylhexyl)phthalate	U		11	370	µg/Kg-dry	1	5/1/2013 06:32
Butyl benzyl phthalate	U		15	180	µg/Kg-dry	1	5/1/2013 06:32
Caprolactam	U		16	370	µg/Kg-dry	1	5/1/2013 06:32
Carbazole	U		13	180	µg/Kg-dry	1	5/1/2013 06:32
Chrysene	U		13	34	µg/Kg-dry	1	5/1/2013 06:32
Dibenzo(a,h)anthracene	U		19	34	µg/Kg-dry	1	5/1/2013 06:32
Dibenzofuran	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
Diethyl phthalate	U		9.3	370	µg/Kg-dry	1	5/1/2013 06:32
Dimethyl phthalate	U		9.3	370	µg/Kg-dry	1	5/1/2013 06:32
Di-n-butyl phthalate	U		11	370	µg/Kg-dry	1	5/1/2013 06:32
Di-n-octyl phthalate	U		14	180	µg/Kg-dry	1	5/1/2013 06:32
Fluoranthene	U		13	34	µg/Kg-dry	1	5/1/2013 06:32
Fluorene	U		9.8	34	µg/Kg-dry	1	5/1/2013 06:32
Hexachlorobenzene	U		10	180	µg/Kg-dry	1	5/1/2013 06:32
Hexachlorobutadiene	U		9.4	180	µg/Kg-dry	1	5/1/2013 06:32
Hexachlorocyclopentadiene	U		39	370	µg/Kg-dry	1	5/1/2013 06:32
Hexachloroethane	U		9.8	180	µg/Kg-dry	1	5/1/2013 06:32
Indeno(1,2,3-cd)pyrene	U		21	34	µg/Kg-dry	1	5/1/2013 06:32
Isophorone	U		9.7	180	µg/Kg-dry	1	5/1/2013 06:32
Naphthalene	U		9.5	34	µg/Kg-dry	1	5/1/2013 06:32
Nitrobenzene	U		9.7	180	µg/Kg-dry	1	5/1/2013 06:32
N-Nitrosodi-n-propylamine	U		9.8	180	µg/Kg-dry	1	5/1/2013 06:32
N-Nitrosodiphenylamine	U		66	180	µg/Kg-dry	1	5/1/2013 06:32
Pentachlorophenol	U		16	370	µg/Kg-dry	1	5/1/2013 06:32
Phenanthrene	U		34	34	µg/Kg-dry	1	5/1/2013 06:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006A  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-16  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		9.5	180	µg/Kg-dry	1	5/1/2013 06:32
Pyrene	U		14	34	µg/Kg-dry	1	5/1/2013 06:32
Surr: 2,4,6-Tribromophenol	7.70	S		34-140	%REC	1	5/1/2013 06:32
Surr: 2-Fluorobiphenyl	58.7			12-100	%REC	1	5/1/2013 06:32
Surr: 2-Fluorophenol	33.6			33-117	%REC	1	5/1/2013 06:32
Surr: 4-Terphenyl-d14	85.3			25-137	%REC	1	5/1/2013 06:32
Surr: Nitrobenzene-d5	54.8			37-107	%REC	1	5/1/2013 06:32
Surr: Phenol-d6	51.4			40-106	%REC	1	5/1/2013 06:32
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: SW8260GRO	Prep: SW5035 / 4/28/13	Analyst: AK	
GRO (C6-C10)	2,700	J	1,400	5,600	µg/Kg-dry	1	4/28/2013 19:08
Surr: Toluene-d8	97.0			70-130	%REC	1	4/28/2013 19:08
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: SW8260	Analyst: AK		
1,1,1-Trichloroethane	U		0.25	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,1,2,2-Tetrachloroethane	U		0.16	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,1,2-Trichloroethane	U		0.21	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,1,2-Trichlorotrifluoroethane	U		0.31	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,1-Dichloroethane	U		0.29	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,1-Dichloroethene	U		0.25	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,2,4-Trichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,2-Dibromo-3-chloropropane	U		0.22	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,2-Dibromoethane	U		0.23	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,2-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,2-Dichloroethane	U		0.31	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,2-Dichloropropane	U		0.29	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,3-Dichlorobenzene	U		0.21	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
1,4-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
2-Butanone	2.8	J	0.86	11	µg/Kg-dry	0.994	4/30/2013 21:34
2-Hexanone	U		0.34	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
4-Methyl-2-pentanone	U		0.22	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Acetone	14		1.0	11	µg/Kg-dry	0.994	4/30/2013 21:34
Benzene	0.63	J	0.28	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Bromodichloromethane	U		0.23	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Bromoform	U		0.17	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Bromomethane	U		0.39	11	µg/Kg-dry	0.994	4/30/2013 21:34
Carbon disulfide	0.53	J	0.41	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Carbon tetrachloride	U		0.23	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Chlorobenzene	U		0.25	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Chloroethane	U		0.63	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Chloroform	U		0.29	5.6	µg/Kg-dry	0.994	4/30/2013 21:34

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-006A  
**Collection Date:** 4/24/2013 01:45 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-16  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.34	11	µg/Kg-dry	0.994	4/30/2013 21:34
cis-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
cis-1,3-Dichloropropene	U		0.20	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
<b>Cyclohexane</b>	<b>0.66</b>	J	<b>0.36</b>	<b>5.6</b>	<b>µg/Kg-dry</b>	0.994	4/30/2013 21:34
Dibromochloromethane	U		0.19	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Dichlorodifluoromethane	U		0.37	11	µg/Kg-dry	0.994	4/30/2013 21:34
<b>Ethylbenzene</b>	<b>0.29</b>	J	<b>0.22</b>	<b>5.6</b>	<b>µg/Kg-dry</b>	0.994	4/30/2013 21:34
Isopropylbenzene	U		0.22	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
<b>m,p-Xylene</b>	<b>0.45</b>	J	<b>0.42</b>	<b>2.8</b>	<b>µg/Kg-dry</b>	0.994	4/30/2013 21:34
Methyl acetate	U		0.90	11	µg/Kg-dry	0.994	4/30/2013 21:34
Methyl tert-butyl ether	U		0.28	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
<b>Methylcyclohexane</b>	<b>1.2</b>	J	<b>0.31</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.994	4/30/2013 21:34
Methylene chloride	U		0.32	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
o-Xylene	U		0.22	2.8	µg/Kg-dry	0.994	4/30/2013 21:34
Styrene	U		0.20	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Tetrachloroethene	U		0.34	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
<b>Toluene</b>	<b>1.2</b>	J	<b>0.26</b>	<b>5.6</b>	<b>µg/Kg-dry</b>	0.994	4/30/2013 21:34
trans-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.994	4/30/2013 21:34
Trichloroethene	U		0.26	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Trichlorofluoromethane	U		1.3	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Vinyl chloride	U		0.34	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Xylenes, Total	U		0.64	5.6	µg/Kg-dry	0.994	4/30/2013 21:34
Surr: 1,2-Dichloroethane-d4	119			70-120	%REC	0.994	4/30/2013 21:34
Surr: 4-Bromofluorobenzene	88.4			75-120	%REC	0.994	4/30/2013 21:34
Surr: Dibromofluoromethane	108			85-115	%REC	0.994	4/30/2013 21:34
Surr: Toluene-d8	102			85-120	%REC	0.994	4/30/2013 21:34
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>11</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-17  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.030		0.0010	0.021	mg/Kg-dry	1	5/2/2013 15:23
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	7.2		0.070	0.51	mg/Kg-dry	1	5/4/2013 00:35
Barium	160		0.014	0.51	mg/Kg-dry	1	5/4/2013 00:35
Cadmium	11		0.0020	0.20	mg/Kg-dry	1	5/4/2013 00:35
Chromium	23		0.084	0.51	mg/Kg-dry	1	5/4/2013 00:35
Lead	24		0.0020	0.51	mg/Kg-dry	1	5/4/2013 00:35
Selenium	1.1		0.065	0.51	mg/Kg-dry	1	5/4/2013 00:35
Silver	0.17	J	0.0020	0.51	mg/Kg-dry	1	5/4/2013 00:35
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	5/6/2013 02:38
ORO (C21-C35)	U		1.8	3.7	mg/Kg-dry	1	5/6/2013 02:38
Surr: 4-Terphenyl-d14	87.2			25-137	%REC	1	5/6/2013 02:38
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.4	420	µg/Kg-dry	1	5/1/2013 06:52
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/1/2013 06:52
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/1/2013 06:52
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	5/1/2013 06:52
2,4-Dinitrophenol	U		54	850	µg/Kg-dry	1	5/1/2013 06:52
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	5/1/2013 06:52
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
2-Methylnaphthalene	U		13	100	µg/Kg-dry	1	5/1/2013 06:52
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
2-Nitroaniline	U		9.7	850	µg/Kg-dry	1	5/1/2013 06:52
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
3,3'-Dichlorobenzidine	U		12	850	µg/Kg-dry	1	5/1/2013 06:52
3-Nitroaniline	U		100	850	µg/Kg-dry	1	5/1/2013 06:52
4,6-Dinitro-2-methylphenol	U		62	420	µg/Kg-dry	1	5/1/2013 06:52
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
4-Chloro-3-methylphenol	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
4-Chloroaniline	U		16	850	µg/Kg-dry	1	5/1/2013 06:52
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
4-Methylphenol	U		13	200	µg/Kg-dry	1	5/1/2013 06:52
4-Nitroaniline	U		19	850	µg/Kg-dry	1	5/1/2013 06:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-17  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		52	850	µg/Kg-dry	1	5/1/2013 06:52
Acenaphthene	U		12	38	µg/Kg-dry	1	5/1/2013 06:52
Acenaphthylene	U		12	38	µg/Kg-dry	1	5/1/2013 06:52
Acetophenone	U		6.4	420	µg/Kg-dry	1	5/1/2013 06:52
Anthracene	U		13	38	µg/Kg-dry	1	5/1/2013 06:52
Atrazine	U		13	420	µg/Kg-dry	1	5/1/2013 06:52
Benzaldehyde	U		16	420	µg/Kg-dry	1	5/1/2013 06:52
Benzo(a)anthracene	U		16	38	µg/Kg-dry	1	5/1/2013 06:52
Benzo(a)pyrene	U		20	38	µg/Kg-dry	1	5/1/2013 06:52
Benzo(b)fluoranthene	U		21	38	µg/Kg-dry	1	5/1/2013 06:52
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	5/1/2013 06:52
Benzo(k)fluoranthene	U		17	38	µg/Kg-dry	1	5/1/2013 06:52
Bis(2-chloroethoxy)methane	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
Bis(2-chloroethyl)ether	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
Bis(2-chloroisopropyl)ether	U		10	200	µg/Kg-dry	1	5/1/2013 06:52
Bis(2-ethylhexyl)phthalate	U		13	420	µg/Kg-dry	1	5/1/2013 06:52
Butyl benzyl phthalate	U		18	200	µg/Kg-dry	1	5/1/2013 06:52
Caprolactam	U		19	420	µg/Kg-dry	1	5/1/2013 06:52
Carbazole	U		15	200	µg/Kg-dry	1	5/1/2013 06:52
Chrysene	U		14	38	µg/Kg-dry	1	5/1/2013 06:52
Dibenzo(a,h)anthracene	U		22	38	µg/Kg-dry	1	5/1/2013 06:52
Dibenzofuran	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
Diethyl phthalate	U		11	420	µg/Kg-dry	1	5/1/2013 06:52
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	5/1/2013 06:52
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	5/1/2013 06:52
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	5/1/2013 06:52
Fluoranthene	U		15	38	µg/Kg-dry	1	5/1/2013 06:52
Fluorene	U		11	38	µg/Kg-dry	1	5/1/2013 06:52
Hexachlorobenzene	U		12	200	µg/Kg-dry	1	5/1/2013 06:52
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
Hexachlorocyclopentadiene	U		45	420	µg/Kg-dry	1	5/1/2013 06:52
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	5/1/2013 06:52
Isophorone	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
Naphthalene	U		11	38	µg/Kg-dry	1	5/1/2013 06:52
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
N-Nitrosodiphenylamine	U		76	200	µg/Kg-dry	1	5/1/2013 06:52
Pentachlorophenol	U		19	420	µg/Kg-dry	1	5/1/2013 06:52
Phenanthrene	U		38	38	µg/Kg-dry	1	5/1/2013 06:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-17  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	200	µg/Kg-dry	1	5/1/2013 06:52
Pyrene	U		16	38	µg/Kg-dry	1	5/1/2013 06:52
Surr: 2,4,6-Tribromophenol	49.8			34-140	%REC	1	5/1/2013 06:52
Surr: 2-Fluorobiphenyl	67.9			12-100	%REC	1	5/1/2013 06:52
Surr: 2-Fluorophenol	77.3			33-117	%REC	1	5/1/2013 06:52
Surr: 4-Terphenyl-d14	105			25-137	%REC	1	5/1/2013 06:52
Surr: Nitrobenzene-d5	64.9			37-107	%REC	1	5/1/2013 06:52
Surr: Phenol-d6	65.5			40-106	%REC	1	5/1/2013 06:52
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,600	6,500	µg/Kg-dry	1	4/28/2013 19:32
Surr: Toluene-d8	94.8			70-130	%REC	1	4/28/2013 19:32
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,1,2-Trichlorotrifluoroethane	U		0.30	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,2-Dibromoethane	U		0.22	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,2-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,2-Dichloroethane	U		0.29	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,2-Dichloropropane	U		0.28	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
2-Butanone	U		0.82	11	µg/Kg-dry	0.813	4/30/2013 22:02
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
<b>Acetone</b>	<b>50</b>		<b>1.0</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
<b>Benzene</b>	<b>1.5</b>	J	<b>0.26</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Bromoform	U		0.16	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Bromomethane	U		0.37	11	µg/Kg-dry	0.813	4/30/2013 22:02
<b>Carbon disulfide</b>	<b>2.6</b>	J	<b>0.39</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
Carbon tetrachloride	U		0.22	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Chlorobenzene	U		0.24	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Chloroethane	U		0.60	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Chloroform	U		0.28	5.3	µg/Kg-dry	0.813	4/30/2013 22:02

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-17  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.33	11	µg/Kg-dry	0.813	4/30/2013 22:02
cis-1,2-Dichloroethene	U		0.32	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
<b>Cyclohexane</b>	<b>2.9</b>	J	<b>0.34</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.813	4/30/2013 22:02
<b>Ethylbenzene</b>	<b>0.22</b>	J	<b>0.21</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
Isopropylbenzene	U		0.21	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
<b>m,p-Xylene</b>	<b>0.47</b>	J	<b>0.40</b>	<b>2.7</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
Methyl acetate	U		0.86	11	µg/Kg-dry	0.813	4/30/2013 22:02
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
<b>Methylcyclohexane</b>	<b>18</b>		<b>0.30</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
Methylene chloride	U		0.30	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
o-Xylene	U		0.21	2.7	µg/Kg-dry	0.813	4/30/2013 22:02
Styrene	U		0.19	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
<b>Toluene</b>	<b>0.70</b>	J	<b>0.25</b>	<b>5.3</b>	<b>µg/Kg-dry</b>	0.813	4/30/2013 22:02
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.813	4/30/2013 22:02
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Vinyl chloride	U		0.32	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.813	4/30/2013 22:02
Surr: 1,2-Dichloroethane-d4	107			70-120	%REC	0.813	4/30/2013 22:02
Surr: 4-Bromofluorobenzene	85.6			75-120	%REC	0.813	4/30/2013 22:02
Surr: Dibromofluoromethane	102			85-115	%REC	0.813	4/30/2013 22:02
Surr: Toluene-d8	95.8			85-120	%REC	0.813	4/30/2013 22:02
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>24</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	1	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007A  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-18  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.011	J	0.00086	0.017	mg/Kg-dry	1	5/2/2013 15:25
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	3.1		0.10	0.74	mg/Kg-dry	2	5/4/2013 00:41
Barium	130		0.021	0.74	mg/Kg-dry	2	5/4/2013 00:41
Cadmium	2.4		0.0030	0.30	mg/Kg-dry	2	5/4/2013 00:41
Chromium	19		0.12	0.74	mg/Kg-dry	2	5/4/2013 00:41
Lead	10		0.0030	0.74	mg/Kg-dry	2	5/4/2013 00:41
Selenium	0.80		0.095	0.74	mg/Kg-dry	2	5/4/2013 00:41
Silver	0.055	J	0.0030	0.74	mg/Kg-dry	2	5/4/2013 00:41
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.4	3.3	mg/Kg-dry	1	5/6/2013 01:38
ORO (C21-C35)	U		1.6	3.3	mg/Kg-dry	1	5/6/2013 01:38
Surr: 4-Terphenyl-d14	82.9			25-137	%REC	1	5/6/2013 01:38
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: HL
1,1'-Biphenyl	33	J	5.7	380	µg/Kg-dry	1	5/2/2013 12:58
2,4,5-Trichlorophenol	U		9.1	180	µg/Kg-dry	1	5/2/2013 12:58
2,4,6-Trichlorophenol	U		9.1	180	µg/Kg-dry	1	5/2/2013 12:58
2,4-Dichlorophenol	U		11	180	µg/Kg-dry	1	5/2/2013 12:58
2,4-Dimethylphenol	U		47	380	µg/Kg-dry	1	5/2/2013 12:58
2,4-Dinitrophenol	U		49	750	µg/Kg-dry	1	5/2/2013 12:58
2,4-Dinitrotoluene	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
2,6-Dinitrotoluene	U		11	180	µg/Kg-dry	1	5/2/2013 12:58
2-Chloronaphthalene	U		10	91	µg/Kg-dry	1	5/2/2013 12:58
2-Chlorophenol	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
2-Methylnaphthalene	U		11	91	µg/Kg-dry	1	5/2/2013 12:58
2-Methylphenol	U		11	180	µg/Kg-dry	1	5/2/2013 12:58
2-Nitroaniline	U		8.7	750	µg/Kg-dry	1	5/2/2013 12:58
2-Nitrophenol	U		9.9	180	µg/Kg-dry	1	5/2/2013 12:58
3,3'-Dichlorobenzidine	U		11	750	µg/Kg-dry	1	5/2/2013 12:58
3-Nitroaniline	U		93	750	µg/Kg-dry	1	5/2/2013 12:58
4,6-Dinitro-2-methylphenol	U		55	380	µg/Kg-dry	1	5/2/2013 12:58
4-Bromophenyl phenyl ether	U		9.9	180	µg/Kg-dry	1	5/2/2013 12:58
4-Chloro-3-methylphenol	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
4-Chloroaniline	U		15	750	µg/Kg-dry	1	5/2/2013 12:58
4-Chlorophenyl phenyl ether	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
4-Methylphenol	U		11	180	µg/Kg-dry	1	5/2/2013 12:58
4-Nitroaniline	U		17	750	µg/Kg-dry	1	5/2/2013 12:58

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007A  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-18  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		46	750	µg/Kg-dry	1	5/2/2013 12:58
Acenaphthene	U		10	34	µg/Kg-dry	1	5/2/2013 12:58
Acenaphthylene	U		11	34	µg/Kg-dry	1	5/2/2013 12:58
Acetophenone	U		5.7	380	µg/Kg-dry	1	5/2/2013 12:58
Anthracene	U		12	34	µg/Kg-dry	1	5/2/2013 12:58
Atrazine	U		12	380	µg/Kg-dry	1	5/2/2013 12:58
Benzaldehyde	U		15	380	µg/Kg-dry	1	5/2/2013 12:58
Benzo(a)anthracene	U		14	34	µg/Kg-dry	1	5/2/2013 12:58
Benzo(a)pyrene	U		18	34	µg/Kg-dry	1	5/2/2013 12:58
Benzo(b)fluoranthene	U		18	34	µg/Kg-dry	1	5/2/2013 12:58
Benzo(g,h,i)perylene	U		27	34	µg/Kg-dry	1	5/2/2013 12:58
Benzo(k)fluoranthene	U		16	34	µg/Kg-dry	1	5/2/2013 12:58
Bis(2-chloroethoxy)methane	U		9.4	180	µg/Kg-dry	1	5/2/2013 12:58
Bis(2-chloroethyl)ether	U		9.5	180	µg/Kg-dry	1	5/2/2013 12:58
Bis(2-chloroisopropyl)ether	U		8.9	180	µg/Kg-dry	1	5/2/2013 12:58
<b>Bis(2-ethylhexyl)phthalate</b>	<b>48</b>	<b>J</b>	<b>11</b>	<b>380</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/2/2013 12:58</b>
Butyl benzyl phthalate	U		16	180	µg/Kg-dry	1	5/2/2013 12:58
Caprolactam	U		17	380	µg/Kg-dry	1	5/2/2013 12:58
Carbazole	U		13	180	µg/Kg-dry	1	5/2/2013 12:58
Chrysene	U		13	34	µg/Kg-dry	1	5/2/2013 12:58
Dibenzo(a,h)anthracene	U		20	34	µg/Kg-dry	1	5/2/2013 12:58
Dibenzofuran	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
Diethyl phthalate	U		9.5	380	µg/Kg-dry	1	5/2/2013 12:58
Dimethyl phthalate	U		9.5	380	µg/Kg-dry	1	5/2/2013 12:58
<b>Di-n-butyl phthalate</b>	<b>71</b>	<b>J</b>	<b>11</b>	<b>380</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/2/2013 12:58</b>
Di-n-octyl phthalate	U		14	180	µg/Kg-dry	1	5/2/2013 12:58
Fluoranthene	U		14	34	µg/Kg-dry	1	5/2/2013 12:58
Fluorene	U		10	34	µg/Kg-dry	1	5/2/2013 12:58
Hexachlorobenzene	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
Hexachlorobutadiene	U		9.7	180	µg/Kg-dry	1	5/2/2013 12:58
Hexachlorocyclopentadiene	U		40	380	µg/Kg-dry	1	5/2/2013 12:58
Hexachloroethane	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
Indeno(1,2,3-cd)pyrene	U		22	34	µg/Kg-dry	1	5/2/2013 12:58
Isophorone	U		9.9	180	µg/Kg-dry	1	5/2/2013 12:58
Naphthalene	U		9.8	34	µg/Kg-dry	1	5/2/2013 12:58
Nitrobenzene	U		9.9	180	µg/Kg-dry	1	5/2/2013 12:58
N-Nitrosodi-n-propylamine	U		10	180	µg/Kg-dry	1	5/2/2013 12:58
N-Nitrosodiphenylamine	U		68	180	µg/Kg-dry	1	5/2/2013 12:58
Pentachlorophenol	U		17	380	µg/Kg-dry	1	5/2/2013 12:58
Phenanthrene	U		34	34	µg/Kg-dry	1	5/2/2013 12:58

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007A  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-18  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		9.7	180	µg/Kg-dry	1	5/2/2013 12:58
Pyrene	U		14	34	µg/Kg-dry	1	5/2/2013 12:58
Surr: 2,4,6-Tribromophenol	51.9			34-140	%REC	1	5/2/2013 12:58
Surr: 2-Fluorobiphenyl	63.6			12-100	%REC	1	5/2/2013 12:58
Surr: 2-Fluorophenol	91.1			33-117	%REC	1	5/2/2013 12:58
Surr: 4-Terphenyl-d14	98.6			25-137	%REC	1	5/2/2013 12:58
Surr: Nitrobenzene-d5	54.0			37-107	%REC	1	5/2/2013 12:58
Surr: Phenol-d6	76.9			40-106	%REC	1	5/2/2013 12:58
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,400	5,800	µg/Kg-dry	1	4/28/2013 19:56
Surr: Toluene-d8	94.8			70-130	%REC	1	4/28/2013 19:56
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.21	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,1,2,2-Tetrachloroethane	U		0.14	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,1,2-Trichloroethane	U		0.19	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,1,2-Trichlorotrifluoroethane	U		0.27	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,1-Dichloroethane	U		0.25	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,1-Dichloroethene	U		0.22	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,2,4-Trichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,2-Dibromo-3-chloropropane	U		0.19	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,2-Dibromoethane	U		0.20	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,2-Dichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,2-Dichloroethane	U		0.27	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,2-Dichloropropane	U		0.25	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,3-Dichlorobenzene	U		0.18	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
1,4-Dichlorobenzene	U		0.20	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
<b>2-Butanone</b>	<b>3.0</b>	J	<b>0.75</b>	<b>9.7</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
2-Hexanone	U		0.29	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
4-Methyl-2-pentanone	U		0.19	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
<b>Acetone</b>	<b>8.5</b>	J	<b>0.91</b>	<b>9.7</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
<b>Benzene</b>	<b>2.3</b>	J	<b>0.24</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
Bromodichloromethane	U		0.20	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Bromoform	U		0.15	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Bromomethane	U		0.34	9.7	µg/Kg-dry	0.842	4/30/2013 22:31
<b>Carbon disulfide</b>	<b>2.4</b>	J	<b>0.36</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
Carbon tetrachloride	U		0.20	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Chlorobenzene	U		0.22	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Chloroethane	U		0.55	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Chloroform	U		0.26	4.9	µg/Kg-dry	0.842	4/30/2013 22:31

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-007A  
**Collection Date:** 4/24/2013 02:50 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-18  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.30	9.7	µg/Kg-dry	0.842	4/30/2013 22:31
cis-1,2-Dichloroethene	U		0.29	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
cis-1,3-Dichloropropene	U		0.18	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
<b>Cyclohexane</b>	<b>1.7</b>	<b>J</b>	<b>0.31</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
Dibromochloromethane	U		0.16	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Dichlorodifluoromethane	U		0.32	9.7	µg/Kg-dry	0.842	4/30/2013 22:31
Ethylbenzene	U		0.19	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Isopropylbenzene	U		0.19	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
m,p-Xylene	U		0.37	2.4	µg/Kg-dry	0.842	4/30/2013 22:31
Methyl acetate	U		0.78	9.7	µg/Kg-dry	0.842	4/30/2013 22:31
Methyl tert-butyl ether	U		0.25	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
<b>Methylcyclohexane</b>	<b>4.1</b>	<b>J</b>	<b>0.27</b>	<b>9.7</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
Methylene chloride	U		0.28	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
o-Xylene	U		0.19	2.4	µg/Kg-dry	0.842	4/30/2013 22:31
Styrene	U		0.18	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Tetrachloroethene	U		0.29	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
<b>Toluene</b>	<b>1.3</b>	<b>J</b>	<b>0.23</b>	<b>4.9</b>	<b>µg/Kg-dry</b>	0.842	4/30/2013 22:31
trans-1,2-Dichloroethene	U		0.29	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
trans-1,3-Dichloropropene	U		0.18	9.7	µg/Kg-dry	0.842	4/30/2013 22:31
Trichloroethene	U		0.23	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Trichlorofluoromethane	U		1.1	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Vinyl chloride	U		0.30	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Xylenes, Total	U		0.56	4.9	µg/Kg-dry	0.842	4/30/2013 22:31
Surr: 1,2-Dichloroethane-d4	111			70-120	%REC	0.842	4/30/2013 22:31
Surr: 4-Bromofluorobenzene	90.8			75-120	%REC	0.842	4/30/2013 22:31
Surr: Dibromofluoromethane	107			85-115	%REC	0.842	4/30/2013 22:31
Surr: Toluene-d8	100			85-120	%REC	0.842	4/30/2013 22:31
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>14</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-GW-007  
**Collection Date:** 4/24/2013 03:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-19  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
Mercury	0.00027		Method:SW7470 0.00010	0.00020	mg/L	1	Analyst: LR 5/1/2013 15:43
<b>MERCURY BY CVAA (DISSOLVED)</b>							
Mercury	U		Method:SW7470 0.00010	0.00020	mg/L	1	Analyst: LR 5/1/2013 15:45
<b>METALS BY ICP-MS</b>							
Arsenic	0.065		Method:SW6020A 0.00058	0.0050	mg/L	1	Analyst: RH 5/3/2013 20:42
Barium	2.0		0.00063	0.050	mg/L	10	5/6/2013 13:49
Cadmium	0.14		0.000045	0.0020	mg/L	1	5/3/2013 20:42
Chromium	0.26		0.00027	0.0050	mg/L	1	5/3/2013 20:42
Lead	0.65		0.000051	0.0030	mg/L	1	5/3/2013 20:42
Selenium	0.0094		0.00064	0.0050	mg/L	1	5/3/2013 20:42
Silver	0.0010		0.000042	0.00020	mg/L	1	5/3/2013 20:42
<b>METALS BY ICP-MS (DISSOLVED)</b>							
Arsenic	0.00064	J	Method:SW6020A 0.00058	0.0050	mg/L	1	Analyst: RH 5/2/2013 01:41
Barium	0.26		0.000063	0.0050	mg/L	1	5/2/2013 01:41
Cadmium	U		0.000045	0.0020	mg/L	1	5/2/2013 01:41
Chromium	0.00042	J	0.00027	0.0050	mg/L	1	5/2/2013 01:41
Lead	0.000054	J	0.000051	0.0030	mg/L	1	5/2/2013 01:41
Selenium	U		0.00064	0.0050	mg/L	1	5/2/2013 01:41
Silver	U		0.000042	0.00020	mg/L	1	5/2/2013 01:41
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
DRO (C10-C21)	U		Method:SW8270 0.013	0.10	mg/L	1	Analyst: RM 5/5/2013 19:21
ORO (C21-C35)	3.8		0.027	0.10	mg/L	1	5/5/2013 19:21
Surr: 4-Terphenyl-d14	72.9			23-112	%REC	1	5/5/2013 19:21
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
1,1'-Biphenyl	U		Method:SW8270 0.095	5.0	µg/L	1	Analyst: HL 4/30/2013 14:31
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	4/30/2013 14:31
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	4/30/2013 14:31
2,4-Dichlorophenol	U		0.22	10	µg/L	1	4/30/2013 14:31
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	4/30/2013 14:31
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	4/30/2013 14:31
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	4/30/2013 14:31
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	4/30/2013 14:31
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 14:31
2-Chlorophenol	U		0.73	5.0	µg/L	1	4/30/2013 14:31
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	4/30/2013 14:31
2-Methylphenol	U		0.60	5.0	µg/L	1	4/30/2013 14:31

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-GW-007  
**Collection Date:** 4/24/2013 03:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-19  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Nitroaniline	U		0.11	20	µg/L	1	4/30/2013 14:31
2-Nitrophenol	U		0.19	5.0	µg/L	1	4/30/2013 14:31
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	4/30/2013 14:31
3-Nitroaniline	U		2.5	20	µg/L	1	4/30/2013 14:31
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	4/30/2013 14:31
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 14:31
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	4/30/2013 14:31
4-Chloroaniline	U		1.1	20	µg/L	1	4/30/2013 14:31
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	4/30/2013 14:31
4-Methylphenol	U		0.55	5.0	µg/L	1	4/30/2013 14:31
4-Nitroaniline	U		1.5	20	µg/L	1	4/30/2013 14:31
4-Nitrophenol	U		1.6	20	µg/L	1	4/30/2013 14:31
Acenaphthene	U		0.11	5.0	µg/L	1	4/30/2013 14:31
Acenaphthylene	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Acetophenone	U		0.090	1.0	µg/L	1	4/30/2013 14:31
Anthracene	U		0.72	5.0	µg/L	1	4/30/2013 14:31
Atrazine	U		3.2	10	µg/L	1	4/30/2013 14:31
Benzaldehyde	U		0.46	1.0	µg/L	1	4/30/2013 14:31
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	4/30/2013 14:31
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	4/30/2013 14:31
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	4/30/2013 14:31
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	4/30/2013 14:31
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	4/30/2013 14:31
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	4/30/2013 14:31
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	4/30/2013 14:31
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	4/30/2013 14:31
Caprolactam	U		4.7	10	µg/L	1	4/30/2013 14:31
Carbazole	U		0.84	10	µg/L	1	4/30/2013 14:31
Chrysene	U		0.71	5.0	µg/L	1	4/30/2013 14:31
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	4/30/2013 14:31
Dibenzofuran	U		0.11	5.0	µg/L	1	4/30/2013 14:31
Diethyl phthalate	U		0.69	20	µg/L	1	4/30/2013 14:31
Dimethyl phthalate	U		0.14	20	µg/L	1	4/30/2013 14:31
<b>Di-n-butyl phthalate</b>	<b>1.8</b>	<b>J</b>	<b>0.71</b>	<b>5.0</b>	<b>µg/L</b>	1	4/30/2013 14:31
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Fluoranthene	U		0.77	5.0	µg/L	1	4/30/2013 14:31
Fluorene	U		0.10	5.0	µg/L	1	4/30/2013 14:31
Hexachlorobenzene	U		0.10	5.0	µg/L	1	4/30/2013 14:31

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-GW-007  
**Collection Date:** 4/24/2013 03:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-19  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	4/30/2013 14:31
Hexachloroethane	U		0.13	5.0	µg/L	1	4/30/2013 14:31
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	4/30/2013 14:31
Isophorone	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Naphthalene	U		0.12	5.0	µg/L	1	4/30/2013 14:31
Nitrobenzene	U		0.10	5.0	µg/L	1	4/30/2013 14:31
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	4/30/2013 14:31
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	4/30/2013 14:31
Pentachlorophenol	U		0.11	20	µg/L	1	4/30/2013 14:31
Phenanthrene	U		0.86	5.0	µg/L	1	4/30/2013 14:31
Phenol	U		0.094	5.0	µg/L	1	4/30/2013 14:31
Pyrene	U		0.65	5.0	µg/L	1	4/30/2013 14:31
Surr: 2,4,6-Tribromophenol	63.2			32-115	%REC	1	4/30/2013 14:31
Surr: 2-Fluorobiphenyl	61.8			32-100	%REC	1	4/30/2013 14:31
Surr: 2-Fluorophenol	39.7			22-59	%REC	1	4/30/2013 14:31
Surr: 4-Terphenyl-d14	86.8			23-112	%REC	1	4/30/2013 14:31
Surr: Nitrobenzene-d5	48.7			31-93	%REC	1	4/30/2013 14:31
Surr: Phenol-d6	19.1			13-36	%REC	1	4/30/2013 14:31
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: SW8260GRO			Analyst: AK	
GRO (C6-C10)	170		25	100	µg/L	1	4/29/2013 16:12
Surr: Toluene-d8	97.6			70-130	%REC	1	4/29/2013 16:12
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260			Analyst: AK	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	4/29/2013 16:12
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	4/29/2013 16:12
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	4/29/2013 16:12
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	4/29/2013 16:12
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	4/29/2013 16:12
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	4/29/2013 16:12
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	4/29/2013 16:12
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	4/29/2013 16:12
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	4/29/2013 16:12
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	4/29/2013 16:12
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	4/29/2013 16:12
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	4/29/2013 16:12
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	4/29/2013 16:12
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	4/29/2013 16:12
2-Butanone	U		0.22	5.0	µg/L	1	4/29/2013 16:12
2-Hexanone	U		0.12	5.0	µg/L	1	4/29/2013 16:12

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-GW-007  
**Collection Date:** 4/24/2013 03:30 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-19  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	4/29/2013 16:12
Acetone	U		0.33	20	µg/L	1	4/29/2013 16:12
Benzene	U		0.18	1.0	µg/L	1	4/29/2013 16:12
Bromodichloromethane	U		0.12	1.0	µg/L	1	4/29/2013 16:12
Bromoform	U		0.15	1.0	µg/L	1	4/29/2013 16:12
Bromomethane	U		0.21	1.0	µg/L	1	4/29/2013 16:12
<b>Carbon disulfide</b>	<b>1.1</b>	<b>J</b>	<b>0.17</b>	<b>2.5</b>	<b>µg/L</b>	1	4/29/2013 16:12
Carbon tetrachloride	U		0.12	1.0	µg/L	1	4/29/2013 16:12
Chlorobenzene	U		0.13	1.0	µg/L	1	4/29/2013 16:12
Chloroethane	U		0.46	1.0	µg/L	1	4/29/2013 16:12
Chloroform	U		0.15	1.0	µg/L	1	4/30/2013 15:07
Chloromethane	U		0.16	1.0	µg/L	1	4/29/2013 16:12
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	4/29/2013 16:12
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	4/29/2013 16:12
Cyclohexane	U		0.22	5.0	µg/L	1	4/29/2013 16:12
Dibromochloromethane	U		0.13	1.0	µg/L	1	4/29/2013 16:12
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	4/29/2013 16:12
Ethylbenzene	U		0.13	1.0	µg/L	1	4/29/2013 16:12
Isopropylbenzene	U		0.14	1.0	µg/L	1	4/29/2013 16:12
m,p-Xylene	U		0.20	2.0	µg/L	1	4/29/2013 16:12
Methyl acetate	U		0.19	2.0	µg/L	1	4/29/2013 16:12
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	4/29/2013 16:12
Methylcyclohexane	U		0.99	5.0	µg/L	1	4/29/2013 16:12
Methylene chloride	U		0.19	5.0	µg/L	1	4/29/2013 16:12
o-Xylene	U		0.086	1.0	µg/L	1	4/29/2013 16:12
Styrene	U		0.11	1.0	µg/L	1	4/29/2013 16:12
Tetrachloroethene	U		0.15	2.0	µg/L	1	4/29/2013 16:12
Toluene	U		0.12	1.0	µg/L	1	4/29/2013 16:12
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	4/29/2013 16:12
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	4/29/2013 16:12
Trichloroethene	U		0.14	1.0	µg/L	1	4/29/2013 16:12
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	4/29/2013 16:12
Vinyl chloride	U		0.17	1.0	µg/L	1	4/29/2013 16:12
Xylenes, Total	U		0.29	3.0	µg/L	1	4/29/2013 16:12
Surr: 1,2-Dichloroethane-d4	89.0			70-120	%REC	1	4/29/2013 16:12
Surr: 1,2-Dichloroethane-d4	97.6			70-120	%REC	1	4/30/2013 15:07
Surr: 4-Bromofluorobenzene	101			75-120	%REC	1	4/29/2013 16:12
Surr: 4-Bromofluorobenzene	97.0			75-120	%REC	1	4/30/2013 15:07
Surr: Dibromofluoromethane	93.4			85-115	%REC	1	4/29/2013 16:12
Surr: Dibromofluoromethane	94.0			85-115	%REC	1	4/30/2013 15:07

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

## ALS Group USA, Corp

Date: 09-May-13

Client: Tetra Tech

Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

Sample ID: LCBP-GW-007

Collection Date: 4/24/2013 03:30 PM

Work Order: 13041107

Lab ID: 13041107-19

Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	98.2			85-120	%REC	1	4/29/2013 16:12
Surr: Toluene-d8	99.8			85-120	%REC	1	4/30/2013 15:07

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008  
**Collection Date:** 4/25/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-20  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.020		0.00091	0.018	mg/Kg-dry	1	5/3/2013 14:14
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	9.0		0.068	0.50	mg/Kg-dry	1	5/4/2013 00:47
Barium	130		0.014	0.50	mg/Kg-dry	1	5/4/2013 00:47
Cadmium	1.7		0.0020	0.20	mg/Kg-dry	1	5/4/2013 00:47
Chromium	21		0.082	0.50	mg/Kg-dry	1	5/4/2013 00:47
Lead	15		0.0020	0.50	mg/Kg-dry	1	5/4/2013 00:47
Selenium	0.65		0.064	0.50	mg/Kg-dry	1	5/4/2013 00:47
Silver	0.067	J	0.0020	0.50	mg/Kg-dry	1	5/4/2013 00:47
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	5/6/2013 02:58
ORO (C21-C35)	U		1.8	3.7	mg/Kg-dry	1	5/6/2013 02:58
Surr: 4-Terphenyl-d14	89.0			25-137	%REC	1	5/6/2013 02:58
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		6.2	420	µg/Kg-dry	1	5/6/2013 15:33
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/6/2013 15:33
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	5/6/2013 15:33
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	5/6/2013 15:33
2,4-Dimethylphenol	U		51	420	µg/Kg-dry	1	5/6/2013 15:33
2,4-Dinitrophenol	U		53	830	µg/Kg-dry	1	5/6/2013 15:33
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	5/6/2013 15:33
2-Chloronaphthalene	U		11	100	µg/Kg-dry	1	5/6/2013 15:33
2-Chlorophenol	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
2-Methylnaphthalene	U		12	100	µg/Kg-dry	1	5/6/2013 15:33
2-Methylphenol	U		12	200	µg/Kg-dry	1	5/6/2013 15:33
2-Nitroaniline	U		9.6	830	µg/Kg-dry	1	5/6/2013 15:33
2-Nitrophenol	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
3,3'-Dichlorobenzidine	U		12	830	µg/Kg-dry	1	5/6/2013 15:33
3-Nitroaniline	U		100	830	µg/Kg-dry	1	5/6/2013 15:33
4,6-Dinitro-2-methylphenol	U		61	420	µg/Kg-dry	1	5/6/2013 15:33
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
4-Chloro-3-methylphenol	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
4-Chloroaniline	U		16	830	µg/Kg-dry	1	5/6/2013 15:33
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	5/6/2013 15:33
4-Methylphenol	U		12	200	µg/Kg-dry	1	5/6/2013 15:33
4-Nitroaniline	U		19	830	µg/Kg-dry	1	5/6/2013 15:33

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008  
**Collection Date:** 4/25/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-20  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		51	830	µg/Kg-dry	1	5/6/2013 15:33
Acenaphthene	U		11	38	µg/Kg-dry	1	5/6/2013 15:33
Acenaphthylene	U		12	38	µg/Kg-dry	1	5/6/2013 15:33
Acetophenone	U		6.3	420	µg/Kg-dry	1	5/6/2013 15:33
Anthracene	U		13	38	µg/Kg-dry	1	5/6/2013 15:33
Atrazine	U		13	420	µg/Kg-dry	1	5/6/2013 15:33
Benzaldehyde	U		16	420	µg/Kg-dry	1	5/6/2013 15:33
Benzo(a)anthracene	U		15	38	µg/Kg-dry	1	5/6/2013 15:33
Benzo(a)pyrene	U		19	38	µg/Kg-dry	1	5/6/2013 15:33
Benzo(b)fluoranthene	U		20	38	µg/Kg-dry	1	5/6/2013 15:33
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	5/6/2013 15:33
Benzo(k)fluoranthene	U		17	38	µg/Kg-dry	1	5/6/2013 15:33
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	5/6/2013 15:33
Bis(2-chloroethyl)ether	U		10	200	µg/Kg-dry	1	5/6/2013 15:33
Bis(2-chloroisopropyl)ether	U		9.8	200	µg/Kg-dry	1	5/6/2013 15:33
Bis(2-ethylhexyl)phthalate	U		12	420	µg/Kg-dry	1	5/6/2013 15:33
Butyl benzyl phthalate	U		17	200	µg/Kg-dry	1	5/6/2013 15:33
Caprolactam	U		18	420	µg/Kg-dry	1	5/6/2013 15:33
Carbazole	U		14	200	µg/Kg-dry	1	5/6/2013 15:33
Chrysene	U		14	38	µg/Kg-dry	1	5/6/2013 15:33
Dibenzo(a,h)anthracene	U		21	38	µg/Kg-dry	1	5/6/2013 15:33
Dibenzofuran	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
Diethyl phthalate	U		10	420	µg/Kg-dry	1	5/6/2013 15:33
Dimethyl phthalate	U		10	420	µg/Kg-dry	1	5/6/2013 15:33
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	5/6/2013 15:33
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	5/6/2013 15:33
Fluoranthene	U		15	38	µg/Kg-dry	1	5/6/2013 15:33
Fluorene	U		11	38	µg/Kg-dry	1	5/6/2013 15:33
Hexachlorobenzene	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
Hexachlorocyclopentadiene	U		44	420	µg/Kg-dry	1	5/6/2013 15:33
Hexachloroethane	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	5/6/2013 15:33
Isophorone	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
Naphthalene	U		11	38	µg/Kg-dry	1	5/6/2013 15:33
Nitrobenzene	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
N-Nitrosodiphenylamine	U		75	200	µg/Kg-dry	1	5/6/2013 15:33
Pentachlorophenol	U		19	420	µg/Kg-dry	1	5/6/2013 15:33
Phenanthrene	U		38	38	µg/Kg-dry	1	5/6/2013 15:33

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008  
**Collection Date:** 4/25/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-20  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		11	200	µg/Kg-dry	1	5/6/2013 15:33
Pyrene	U		16	38	µg/Kg-dry	1	5/6/2013 15:33
Surr: 2,4,6-Tribromophenol	33.8	S		34-140	%REC	1	5/6/2013 15:33
Surr: 2-Fluorobiphenyl	60.6			12-100	%REC	1	5/6/2013 15:33
Surr: 2-Fluorophenol	68.6			33-117	%REC	1	5/6/2013 15:33
Surr: 4-Terphenyl-d14	96.7			25-137	%REC	1	5/6/2013 15:33
Surr: Nitrobenzene-d5	61.2			37-107	%REC	1	5/6/2013 15:33
Surr: Phenol-d6	72.4			40-106	%REC	1	5/6/2013 15:33
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,600	6,300	µg/Kg-dry	1	4/28/2013 20:20
Surr: Toluene-d8	97.2			70-130	%REC	1	4/28/2013 20:20
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.24	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,1,2,2-Tetrachloroethane	U		0.15	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,1,2-Trichloroethane	U		0.21	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,1,2-Trichlorotrifluoroethane	U		0.30	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,1-Dichloroethane	U		0.28	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,1-Dichloroethene	U		0.25	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,2,4-Trichlorobenzene	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,2-Dibromo-3-chloropropane	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,2-Dibromoethane	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,2-Dichlorobenzene	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,2-Dichloroethane	U		0.30	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,2-Dichloropropane	U		0.28	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,3-Dichlorobenzene	U		0.20	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
1,4-Dichlorobenzene	U		0.23	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>2-Butanone</b>	<b>13</b>		<b>0.84</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
2-Hexanone	U		0.33	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
4-Methyl-2-pentanone	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Acetone</b>	<b>33</b>		<b>1.0</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
<b>Benzene</b>	<b>1.5</b>	J	<b>0.27</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Bromodichloromethane	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Bromoform	U		0.17	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Bromomethane	U		0.38	11	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Carbon disulfide</b>	<b>1.5</b>	J	<b>0.40</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Carbon tetrachloride	U		0.22	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Chlorobenzene	U		0.24	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Chloroethane	U		0.61	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Chloroform	U		0.28	5.4	µg/Kg-dry	0.858	4/30/2013 22:59

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008  
**Collection Date:** 4/25/2013 10:10 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-20  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.33	11	µg/Kg-dry	0.858	4/30/2013 22:59
cis-1,2-Dichloroethene	U		0.32	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
cis-1,3-Dichloropropene	U		0.20	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Cyclohexane</b>	<b>4.2</b>	J	<b>0.35</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Dibromochloromethane	U		0.18	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Dichlorodifluoromethane	U		0.36	11	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Ethylbenzene</b>	<b>2.0</b>	J	<b>0.21</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
<b>Isopropylbenzene</b>	<b>0.24</b>	J	<b>0.21</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
<b>m,p-Xylene</b>	<b>3.3</b>		<b>0.41</b>	<b>2.7</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Methyl acetate	U		0.87	11	µg/Kg-dry	0.858	4/30/2013 22:59
Methyl tert-butyl ether	U		0.27	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Methylcyclohexane</b>	<b>8.9</b>	J	<b>0.30</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Methylene chloride	U		0.31	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>o-Xylene</b>	<b>0.92</b>	J	<b>0.22</b>	<b>2.7</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Styrene	U		0.20	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Tetrachloroethene	U		0.33	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Toluene</b>	<b>6.2</b>		<b>0.26</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
trans-1,2-Dichloroethene	U		0.32	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.858	4/30/2013 22:59
Trichloroethene	U		0.25	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Trichlorofluoromethane	U		1.3	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
Vinyl chloride	U		0.33	5.4	µg/Kg-dry	0.858	4/30/2013 22:59
<b>Xylenes, Total</b>	<b>4.2</b>	J	<b>0.63</b>	<b>5.4</b>	<b>µg/Kg-dry</b>	0.858	4/30/2013 22:59
Surr: 1,2-Dichloroethane-d4	111			70-120	%REC	0.858	4/30/2013 22:59
Surr: 4-Bromofluorobenzene	91.3			75-120	%REC	0.858	4/30/2013 22:59
Surr: Dibromofluoromethane	106			85-115	%REC	0.858	4/30/2013 22:59
Surr: Toluene-d8	101			85-120	%REC	0.858	4/30/2013 22:59
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>21</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	1	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008A  
**Collection Date:** 4/25/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-21  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.011	J	0.00096	0.019	mg/Kg-dry	1	5/3/2013 14:16
<b>METALS BY ICP-MS</b>							
			Method:SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	2.4		0.12	0.88	mg/Kg-dry	2	5/4/2013 00:53
Barium	110		0.025	0.88	mg/Kg-dry	2	5/4/2013 00:53
Cadmium	1.1		0.0035	0.35	mg/Kg-dry	2	5/4/2013 00:53
Chromium	22		0.15	0.88	mg/Kg-dry	2	5/4/2013 00:53
Lead	2.5		0.0035	0.88	mg/Kg-dry	2	5/4/2013 00:53
Selenium	0.58	J	0.11	0.88	mg/Kg-dry	2	5/4/2013 00:53
Silver	0.0074	J	0.0035	0.88	mg/Kg-dry	2	5/4/2013 00:53
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	5/6/2013 01:58
ORO (C21-C35)	U		1.7	3.5	mg/Kg-dry	1	5/6/2013 01:58
Surr: 4-Terphenyl-d14	90.5			25-137	%REC	1	5/6/2013 01:58
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270			Prep: SW3541 / 4/30/13	Analyst: HL
1,1'-Biphenyl	34	J	5.9	390	µg/Kg-dry	1	5/2/2013 01:43
2,4,5-Trichlorophenol	U		9.5	190	µg/Kg-dry	1	5/2/2013 01:43
2,4,6-Trichlorophenol	U		9.5	190	µg/Kg-dry	1	5/2/2013 01:43
2,4-Dichlorophenol	U		12	190	µg/Kg-dry	1	5/2/2013 01:43
2,4-Dimethylphenol	U		48	390	µg/Kg-dry	1	5/2/2013 01:43
2,4-Dinitrophenol	U		50	780	µg/Kg-dry	1	5/2/2013 01:43
2,4-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
2,6-Dinitrotoluene	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
2-Chloronaphthalene	U		11	95	µg/Kg-dry	1	5/2/2013 01:43
2-Chlorophenol	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
2-Methylnaphthalene	U		12	95	µg/Kg-dry	1	5/2/2013 01:43
2-Methylphenol	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
2-Nitroaniline	U		9.0	780	µg/Kg-dry	1	5/2/2013 01:43
2-Nitrophenol	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
3,3'-Dichlorobenzidine	U		11	780	µg/Kg-dry	1	5/2/2013 01:43
3-Nitroaniline	U		97	780	µg/Kg-dry	1	5/2/2013 01:43
4,6-Dinitro-2-methylphenol	U		57	390	µg/Kg-dry	1	5/2/2013 01:43
4-Bromophenyl phenyl ether	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
4-Chloro-3-methylphenol	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
4-Chloroaniline	U		15	780	µg/Kg-dry	1	5/2/2013 01:43
4-Chlorophenyl phenyl ether	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
4-Methylphenol	U		12	190	µg/Kg-dry	1	5/2/2013 01:43
4-Nitroaniline	U		18	780	µg/Kg-dry	1	5/2/2013 01:43

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008A  
**Collection Date:** 4/25/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-21  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		48	780	µg/Kg-dry	1	5/2/2013 01:43
Acenaphthene	U		11	36	µg/Kg-dry	1	5/2/2013 01:43
Acenaphthylene	U		11	36	µg/Kg-dry	1	5/2/2013 01:43
Acetophenone	U		5.9	390	µg/Kg-dry	1	5/2/2013 01:43
Anthracene	U		12	36	µg/Kg-dry	1	5/2/2013 01:43
Atrazine	U		12	390	µg/Kg-dry	1	5/2/2013 01:43
Benzaldehyde	U		15	390	µg/Kg-dry	1	5/2/2013 01:43
Benzo(a)anthracene	U		14	36	µg/Kg-dry	1	5/2/2013 01:43
Benzo(a)pyrene	U		18	36	µg/Kg-dry	1	5/2/2013 01:43
Benzo(b)fluoranthene	U		19	36	µg/Kg-dry	1	5/2/2013 01:43
Benzo(g,h,i)perylene	U		28	36	µg/Kg-dry	1	5/2/2013 01:43
Benzo(k)fluoranthene	U		16	36	µg/Kg-dry	1	5/2/2013 01:43
Bis(2-chloroethoxy)methane	U		9.7	190	µg/Kg-dry	1	5/2/2013 01:43
Bis(2-chloroethyl)ether	U		9.9	190	µg/Kg-dry	1	5/2/2013 01:43
Bis(2-chloroisopropyl)ether	U		9.3	190	µg/Kg-dry	1	5/2/2013 01:43
Bis(2-ethylhexyl)phthalate	U		12	390	µg/Kg-dry	1	5/2/2013 01:43
<b>Butyl benzyl phthalate</b>	<b>35</b>	<b>J</b>	<b>16</b>	<b>190</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/2/2013 01:43</b>
Caprolactam	U		17	390	µg/Kg-dry	1	5/2/2013 01:43
Carbazole	U		14	190	µg/Kg-dry	1	5/2/2013 01:43
Chrysene	U		13	36	µg/Kg-dry	1	5/2/2013 01:43
Dibenzo(a,h)anthracene	U		20	36	µg/Kg-dry	1	5/2/2013 01:43
Dibenzofuran	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
Diethyl phthalate	U		9.9	390	µg/Kg-dry	1	5/2/2013 01:43
<b>Dimethyl phthalate</b>	<b>46</b>	<b>J</b>	<b>9.9</b>	<b>390</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/2/2013 01:43</b>
<b>Di-n-butyl phthalate</b>	<b>73</b>	<b>J</b>	<b>12</b>	<b>390</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>5/2/2013 01:43</b>
Di-n-octyl phthalate	U		15	190	µg/Kg-dry	1	5/2/2013 01:43
Fluoranthene	U		14	36	µg/Kg-dry	1	5/2/2013 01:43
Fluorene	U		10	36	µg/Kg-dry	1	5/2/2013 01:43
Hexachlorobenzene	U		11	190	µg/Kg-dry	1	5/2/2013 01:43
Hexachlorobutadiene	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
Hexachlorocyclopentadiene	U		41	390	µg/Kg-dry	1	5/2/2013 01:43
Hexachloroethane	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
Indeno(1,2,3-cd)pyrene	U		22	36	µg/Kg-dry	1	5/2/2013 01:43
Isophorone	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
Naphthalene	U		10	36	µg/Kg-dry	1	5/2/2013 01:43
Nitrobenzene	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
N-Nitrosodi-n-propylamine	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
N-Nitrosodiphenylamine	U		71	190	µg/Kg-dry	1	5/2/2013 01:43
Pentachlorophenol	U		18	390	µg/Kg-dry	1	5/2/2013 01:43
Phenanthrene	U		36	36	µg/Kg-dry	1	5/2/2013 01:43

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008A  
**Collection Date:** 4/25/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-21  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		10	190	µg/Kg-dry	1	5/2/2013 01:43
Pyrene	U		15	36	µg/Kg-dry	1	5/2/2013 01:43
Surr: 2,4,6-Tribromophenol	53.0			34-140	%REC	1	5/2/2013 01:43
Surr: 2-Fluorobiphenyl	65.9			12-100	%REC	1	5/2/2013 01:43
Surr: 2-Fluorophenol	98.1			33-117	%REC	1	5/2/2013 01:43
Surr: 4-Terphenyl-d14	101			25-137	%REC	1	5/2/2013 01:43
Surr: Nitrobenzene-d5	55.9			37-107	%REC	1	5/2/2013 01:43
Surr: Phenol-d6	81.0			40-106	%REC	1	5/2/2013 01:43
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8260GRO</b>	Prep: SW5035 / 4/28/13	Analyst: <b>AK</b>	
<b>GRO (C6-C10)</b>	<b>2,700</b>	<b>J</b>	<b>1,500</b>	<b>6,000</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/28/2013 20:44
Surr: Toluene-d8	96.9			70-130	%REC	1	4/28/2013 20:44
<b>VOLATILE ORGANIC COMPOUNDS</b>				Method: <b>SW8260</b>	Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.25	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,1,2,2-Tetrachloroethane	U		0.16	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,1,2-Trichloroethane	U		0.22	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,1,2-Trichlorotrifluoroethane	U		0.32	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,1-Dichloroethane	U		0.29	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,1-Dichloroethene	U		0.26	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,2,4-Trichlorobenzene	U		0.24	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,2-Dibromo-3-chloropropane	U		0.23	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,2-Dibromoethane	U		0.23	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,2-Dichlorobenzene	U		0.23	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,2-Dichloroethane	U		0.31	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,2-Dichloropropane	U		0.29	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,3-Dichlorobenzene	U		0.21	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
1,4-Dichlorobenzene	U		0.24	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
2-Butanone	U		0.87	11	µg/Kg-dry	0.949	4/30/2013 23:27
2-Hexanone	U		0.34	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
4-Methyl-2-pentanone	U		0.23	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
<b>Acetone</b>	<b>4.5</b>	<b>J</b>	<b>1.1</b>	<b>11</b>	<b>µg/Kg-dry</b>	0.949	4/30/2013 23:27
<b>Benzene</b>	<b>0.45</b>	<b>J</b>	<b>0.28</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.949	4/30/2013 23:27
Bromodichloromethane	U		0.23	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Bromoform	U		0.18	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Bromomethane	U		0.40	11	µg/Kg-dry	0.949	4/30/2013 23:27
<b>Carbon disulfide</b>	<b>0.59</b>	<b>J</b>	<b>0.42</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.949	4/30/2013 23:27
Carbon tetrachloride	U		0.23	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Chlorobenzene	U		0.25	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Chloroethane	U		0.64	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Chloroform	U		0.30	5.7	µg/Kg-dry	0.949	4/30/2013 23:27

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-008A  
**Collection Date:** 4/25/2013 10:20 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-21  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.35	11	µg/Kg-dry	0.949	4/30/2013 23:27
cis-1,2-Dichloroethene	U		0.34	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
cis-1,3-Dichloropropene	U		0.20	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Cyclohexane	U		0.36	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Dibromochloromethane	U		0.19	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Dichlorodifluoromethane	U		0.38	11	µg/Kg-dry	0.949	4/30/2013 23:27
Ethylbenzene	U		0.22	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Isopropylbenzene	U		0.22	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
m,p-Xylene	U		0.43	2.8	µg/Kg-dry	0.949	4/30/2013 23:27
Methyl acetate	U		0.92	11	µg/Kg-dry	0.949	4/30/2013 23:27
Methyl tert-butyl ether	U		0.29	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Methylcyclohexane	U		0.32	11	µg/Kg-dry	0.949	4/30/2013 23:27
Methylene chloride	U		0.32	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
o-Xylene	U		0.23	2.8	µg/Kg-dry	0.949	4/30/2013 23:27
Styrene	U		0.21	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Tetrachloroethene	U		0.34	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
<b>Toluene</b>	<b>0.38</b>	<b>J</b>	<b>0.27</b>	<b>5.7</b>	<b>µg/Kg-dry</b>	0.949	4/30/2013 23:27
trans-1,2-Dichloroethene	U		0.33	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.949	4/30/2013 23:27
Trichloroethene	U		0.26	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Trichlorofluoromethane	U		1.3	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Vinyl chloride	U		0.35	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Xylenes, Total	U		0.65	5.7	µg/Kg-dry	0.949	4/30/2013 23:27
Surr: 1,2-Dichloroethane-d4	117			70-120	%REC	0.949	4/30/2013 23:27
Surr: 4-Bromofluorobenzene	87.5			75-120	%REC	0.949	4/30/2013 23:27
Surr: Dibromofluoromethane	110			85-115	%REC	0.949	4/30/2013 23:27
Surr: Toluene-d8	98.2			85-120	%REC	0.949	4/30/2013 23:27
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>17</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/28/2013 14:09

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-009  
**Collection Date:** 4/25/2013 11:05 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-22  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method: SW7471			Prep: SW7471 / 5/2/13	Analyst: LR
Mercury	0.034		0.0011	0.022	mg/Kg-dry	1	5/3/2013 14:18
<b>METALS BY ICP-MS</b>							
			Method: SW6020A			Prep: SW3050B / 5/2/13	Analyst: ML
Arsenic	4.3		0.15	1.1	mg/Kg-dry	2	5/4/2013 00:58
Barium	150		0.031	1.1	mg/Kg-dry	2	5/4/2013 00:58
Cadmium	1.2		0.0044	0.44	mg/Kg-dry	2	5/4/2013 00:58
Chromium	12		0.18	1.1	mg/Kg-dry	2	5/4/2013 00:58
Lead	30		0.0044	1.1	mg/Kg-dry	2	5/4/2013 00:58
Selenium	0.71	J	0.14	1.1	mg/Kg-dry	2	5/4/2013 00:58
Silver	U		0.0044	1.1	mg/Kg-dry	2	5/4/2013 00:58
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method: SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
DRO (C10-C21)	U		1.8	4.1	mg/Kg-dry	1	5/6/2013 02:18
ORO (C21-C35)	U		2.0	4.1	mg/Kg-dry	1	5/6/2013 02:18
Surr: 4-Terphenyl-d14	82.4			25-137	%REC	1	5/6/2013 02:18
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method: SW8270			Prep: SW3541 / 4/30/13	Analyst: RM
1,1'-Biphenyl	U		7.1	470	µg/Kg-dry	1	5/6/2013 15:14
2,4,5-Trichlorophenol	U		11	230	µg/Kg-dry	1	5/6/2013 15:14
2,4,6-Trichlorophenol	U		11	230	µg/Kg-dry	1	5/6/2013 15:14
2,4-Dichlorophenol	U		14	230	µg/Kg-dry	1	5/6/2013 15:14
2,4-Dimethylphenol	U		58	470	µg/Kg-dry	1	5/6/2013 15:14
2,4-Dinitrophenol	U		60	940	µg/Kg-dry	1	5/6/2013 15:14
2,4-Dinitrotoluene	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
2,6-Dinitrotoluene	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
2-Chloronaphthalene	U		13	110	µg/Kg-dry	1	5/6/2013 15:14
2-Chlorophenol	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
2-Methylnaphthalene	U		14	110	µg/Kg-dry	1	5/6/2013 15:14
2-Methylphenol	U		14	230	µg/Kg-dry	1	5/6/2013 15:14
2-Nitroaniline	U		11	940	µg/Kg-dry	1	5/6/2013 15:14
2-Nitrophenol	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
3,3'-Dichlorobenzidine	U		13	940	µg/Kg-dry	1	5/6/2013 15:14
3-Nitroaniline	U		120	940	µg/Kg-dry	1	5/6/2013 15:14
4,6-Dinitro-2-methylphenol	U		68	470	µg/Kg-dry	1	5/6/2013 15:14
4-Bromophenyl phenyl ether	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
4-Chloro-3-methylphenol	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
4-Chloroaniline	U		18	940	µg/Kg-dry	1	5/6/2013 15:14
4-Chlorophenyl phenyl ether	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
4-Methylphenol	U		14	230	µg/Kg-dry	1	5/6/2013 15:14
4-Nitroaniline	U		21	940	µg/Kg-dry	1	5/6/2013 15:14

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-009  
**Collection Date:** 4/25/2013 11:05 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-22  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		58	940	µg/Kg-dry	1	5/6/2013 15:14
Acenaphthene	U		13	43	µg/Kg-dry	1	5/6/2013 15:14
Acenaphthylene	U		13	43	µg/Kg-dry	1	5/6/2013 15:14
Acetophenone	U		7.1	470	µg/Kg-dry	1	5/6/2013 15:14
Anthracene	U		14	43	µg/Kg-dry	1	5/6/2013 15:14
Atrazine	U		14	470	µg/Kg-dry	1	5/6/2013 15:14
Benzaldehyde	U		18	470	µg/Kg-dry	1	5/6/2013 15:14
Benzo(a)anthracene	U		17	43	µg/Kg-dry	1	5/6/2013 15:14
Benzo(a)pyrene	U		22	43	µg/Kg-dry	1	5/6/2013 15:14
Benzo(b)fluoranthene	U		23	43	µg/Kg-dry	1	5/6/2013 15:14
Benzo(g,h,i)perylene	U		33	43	µg/Kg-dry	1	5/6/2013 15:14
Benzo(k)fluoranthene	U		19	43	µg/Kg-dry	1	5/6/2013 15:14
Bis(2-chloroethoxy)methane	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
Bis(2-chloroethyl)ether	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
Bis(2-chloroisopropyl)ether	U		11	230	µg/Kg-dry	1	5/6/2013 15:14
Bis(2-ethylhexyl)phthalate	U		14	470	µg/Kg-dry	1	5/6/2013 15:14
Butyl benzyl phthalate	U		20	230	µg/Kg-dry	1	5/6/2013 15:14
Caprolactam	U		21	470	µg/Kg-dry	1	5/6/2013 15:14
Carbazole	U		16	230	µg/Kg-dry	1	5/6/2013 15:14
Chrysene	U		16	43	µg/Kg-dry	1	5/6/2013 15:14
Dibenzo(a,h)anthracene	U		24	43	µg/Kg-dry	1	5/6/2013 15:14
Dibenzofuran	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
Diethyl phthalate	U		12	470	µg/Kg-dry	1	5/6/2013 15:14
Dimethyl phthalate	U		12	470	µg/Kg-dry	1	5/6/2013 15:14
Di-n-butyl phthalate	U		14	470	µg/Kg-dry	1	5/6/2013 15:14
Di-n-octyl phthalate	U		18	230	µg/Kg-dry	1	5/6/2013 15:14
Fluoranthene	U		17	43	µg/Kg-dry	1	5/6/2013 15:14
Fluorene	U		12	43	µg/Kg-dry	1	5/6/2013 15:14
Hexachlorobenzene	U		13	230	µg/Kg-dry	1	5/6/2013 15:14
Hexachlorobutadiene	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
Hexachlorocyclopentadiene	U		50	470	µg/Kg-dry	1	5/6/2013 15:14
Hexachloroethane	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
Indeno(1,2,3-cd)pyrene	U		27	43	µg/Kg-dry	1	5/6/2013 15:14
Isophorone	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
Naphthalene	U		12	43	µg/Kg-dry	1	5/6/2013 15:14
Nitrobenzene	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
N-Nitrosodi-n-propylamine	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
N-Nitrosodiphenylamine	U		84	230	µg/Kg-dry	1	5/6/2013 15:14
Pentachlorophenol	U		21	470	µg/Kg-dry	1	5/6/2013 15:14
Phenanthrene	U		43	43	µg/Kg-dry	1	5/6/2013 15:14

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-009  
**Collection Date:** 4/25/2013 11:05 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-22  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		12	230	µg/Kg-dry	1	5/6/2013 15:14
Pyrene	U		18	43	µg/Kg-dry	1	5/6/2013 15:14
Surr: 2,4,6-Tribromophenol	38.0			34-140	%REC	1	5/6/2013 15:14
Surr: 2-Fluorobiphenyl	60.2			12-100	%REC	1	5/6/2013 15:14
Surr: 2-Fluorophenol	71.6			33-117	%REC	1	5/6/2013 15:14
Surr: 4-Terphenyl-d14	97.6			25-137	%REC	1	5/6/2013 15:14
Surr: Nitrobenzene-d5	60.0			37-107	%REC	1	5/6/2013 15:14
Surr: Phenol-d6	70.5			40-106	%REC	1	5/6/2013 15:14
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,800	7,300	µg/Kg-dry	1	4/29/2013 14:37
Surr: Toluene-d8	93.6			70-130	%REC	1	4/29/2013 14:37
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.36	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,1,2,2-Tetrachloroethane	U		0.23	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,1,2-Trichloroethane	U		0.31	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,1,2-Trichlorotrifluoroethane	U		0.45	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,1-Dichloroethane	U		0.41	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,1-Dichloroethene	U		0.37	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,2,4-Trichlorobenzene	U		0.34	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,2-Dibromo-3-chloropropane	U		0.32	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,2-Dibromoethane	U		0.33	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,2-Dichlorobenzene	U		0.33	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,2-Dichloroethane	U		0.45	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,2-Dichloropropane	U		0.42	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,3-Dichlorobenzene	U		0.30	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
1,4-Dichlorobenzene	U		0.34	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
<b>2-Butanone</b>	<b>6.5</b>	<b>J</b>	<b>1.2</b>	<b>16</b>	<b>µg/Kg-dry</b>	1.11	4/30/2013 23:54
2-Hexanone	U		0.49	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
4-Methyl-2-pentanone	U		0.32	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
<b>Acetone</b>	<b>16</b>		<b>1.5</b>	<b>16</b>	<b>µg/Kg-dry</b>	1.11	4/30/2013 23:54
Benzene	U		0.40	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Bromodichloromethane	U		0.33	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Bromoform	U		0.25	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Bromomethane	U		0.57	16	µg/Kg-dry	1.11	4/30/2013 23:54
Carbon disulfide	U		0.60	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Carbon tetrachloride	U		0.33	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Chlorobenzene	U		0.36	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Chloroethane	U		0.91	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Chloroform	U		0.42	8.1	µg/Kg-dry	1.11	4/30/2013 23:54

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-009  
**Collection Date:** 4/25/2013 11:05 AM

**Work Order:** 13041107  
**Lab ID:** 13041107-22  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.50	16	µg/Kg-dry	1.11	4/30/2013 23:54
cis-1,2-Dichloroethene	U		0.48	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
cis-1,3-Dichloropropene	U		0.29	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Cyclohexane	U		0.52	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Dibromochloromethane	U		0.27	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Dichlorodifluoromethane	U		0.54	16	µg/Kg-dry	1.11	4/30/2013 23:54
Ethylbenzene	U		0.31	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Isopropylbenzene	U		0.31	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
m,p-Xylene	U		0.61	4.0	µg/Kg-dry	1.11	4/30/2013 23:54
Methyl acetate	U		1.3	16	µg/Kg-dry	1.11	4/30/2013 23:54
Methyl tert-butyl ether	U		0.41	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Methylcyclohexane	U		0.45	16	µg/Kg-dry	1.11	4/30/2013 23:54
Methylene chloride	U		0.46	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
o-Xylene	U		0.32	4.0	µg/Kg-dry	1.11	4/30/2013 23:54
Styrene	U		0.29	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Tetrachloroethene	U		0.49	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Toluene	U		0.38	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
trans-1,2-Dichloroethene	U		0.47	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
trans-1,3-Dichloropropene	U		0.30	16	µg/Kg-dry	1.11	4/30/2013 23:54
Trichloroethene	U		0.38	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Trichlorofluoromethane	U		1.9	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Vinyl chloride	U		0.49	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Xylenes, Total	U		0.93	8.1	µg/Kg-dry	1.11	4/30/2013 23:54
Surr: 1,2-Dichloroethane-d4	109			70-120	%REC	1.11	4/30/2013 23:54
Surr: 4-Bromofluorobenzene	85.4			75-120	%REC	1.11	4/30/2013 23:54
Surr: Dibromofluoromethane	104			85-115	%REC	1.11	4/30/2013 23:54
Surr: Toluene-d8	94.4			85-120	%REC	1.11	4/30/2013 23:54
<b>MOISTURE</b>			Method: A2540 G				Analyst: KF
<b>Moisture</b>	<b>31</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/28/2013 14:09</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-010  
**Collection Date:** 4/25/2013 01:05 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-23  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471		Prep: SW7471 / 5/2/13		Analyst: LR
Mercury	0.046		0.00086	0.017	mg/Kg-dry	1	5/3/2013 14:20
<b>METALS BY ICP-MS</b>							
			Method:SW6020A		Prep: SW3050B / 5/2/13		Analyst: ML
Arsenic	3.8		0.28	2.1	mg/Kg-dry	5	5/4/2013 01:04
Barium	99		0.057	2.1	mg/Kg-dry	5	5/4/2013 01:04
Cadmium	0.67	J	0.0082	0.82	mg/Kg-dry	5	5/4/2013 01:04
Chromium	11		0.34	2.1	mg/Kg-dry	5	5/4/2013 01:04
Lead	49		0.0082	2.1	mg/Kg-dry	5	5/4/2013 01:04
Selenium	0.32	J	0.26	2.1	mg/Kg-dry	5	5/4/2013 01:04
Silver	0.038	J	0.0082	2.1	mg/Kg-dry	5	5/4/2013 01:04
<b>DIESEL RANGE ORGANICS BY GC-MS</b>							
			Method:SW8270		Prep: SW3541 / 4/30/13		Analyst: RM
DRO (C10-C21)	U		29	67	mg/Kg-dry	20	5/6/2013 03:18
ORO (C21-C35)	U		32	67	mg/Kg-dry	20	5/6/2013 03:18
Surr: 4-Terphenyl-d14	45.2			25-137	%REC	20	5/6/2013 03:18
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
			Method:SW8270		Prep: SW3541 / 4/30/13		Analyst: HL
1,1'-Biphenyl	U		110	7,600	µg/Kg-dry	20	5/3/2013 18:21
2,4,5-Trichlorophenol	U		180	3,700	µg/Kg-dry	20	5/3/2013 18:21
2,4,6-Trichlorophenol	U		180	3,700	µg/Kg-dry	20	5/3/2013 18:21
2,4-Dichlorophenol	U		220	3,700	µg/Kg-dry	20	5/3/2013 18:21
2,4-Dimethylphenol	U		940	7,600	µg/Kg-dry	20	5/3/2013 18:21
2,4-Dinitrophenol	U		980	15,000	µg/Kg-dry	20	5/3/2013 18:21
2,4-Dinitrotoluene	U		210	3,700	µg/Kg-dry	20	5/3/2013 18:21
2,6-Dinitrotoluene	U		220	3,700	µg/Kg-dry	20	5/3/2013 18:21
2-Chloronaphthalene	U		210	1,800	µg/Kg-dry	20	5/3/2013 18:21
2-Chlorophenol	U		210	3,700	µg/Kg-dry	20	5/3/2013 18:21
2-Methylnaphthalene	U		230	1,800	µg/Kg-dry	20	5/3/2013 18:21
2-Methylphenol	U		220	3,700	µg/Kg-dry	20	5/3/2013 18:21
2-Nitroaniline	U		180	15,000	µg/Kg-dry	20	5/3/2013 18:21
2-Nitrophenol	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
3,3'-Dichlorobenzidine	U		220	15,000	µg/Kg-dry	20	5/3/2013 18:21
3-Nitroaniline	U		1,900	15,000	µg/Kg-dry	20	5/3/2013 18:21
4,6-Dinitro-2-methylphenol	U		1,100	7,600	µg/Kg-dry	20	5/3/2013 18:21
4-Bromophenyl phenyl ether	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
4-Chloro-3-methylphenol	U		210	3,700	µg/Kg-dry	20	5/3/2013 18:21
4-Chloroaniline	U		290	15,000	µg/Kg-dry	20	5/3/2013 18:21
4-Chlorophenyl phenyl ether	U		210	3,700	µg/Kg-dry	20	5/3/2013 18:21
4-Methylphenol	U		230	3,700	µg/Kg-dry	20	5/3/2013 18:21
4-Nitroaniline	U		340	15,000	µg/Kg-dry	20	5/3/2013 18:21

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-010  
**Collection Date:** 4/25/2013 01:05 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-23  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	U		940	15,000	µg/Kg-dry	20	5/3/2013 18:21
Acenaphthene	U		210	690	µg/Kg-dry	20	5/3/2013 18:21
Acenaphthylene	U		220	690	µg/Kg-dry	20	5/3/2013 18:21
Acetophenone	U		120	7,600	µg/Kg-dry	20	5/3/2013 18:21
Anthracene	U		240	690	µg/Kg-dry	20	5/3/2013 18:21
Atrazine	U		230	7,600	µg/Kg-dry	20	5/3/2013 18:21
Benzaldehyde	U		290	7,600	µg/Kg-dry	20	5/3/2013 18:21
Benzo(a)anthracene	U		280	690	µg/Kg-dry	20	5/3/2013 18:21
Benzo(a)pyrene	U		360	690	µg/Kg-dry	20	5/3/2013 18:21
<b>Benzo(b)fluoranthene</b>	<b>530</b>	J	<b>370</b>	<b>690</b>	<b>µg/Kg-dry</b>	20	5/3/2013 18:21
<b>Benzo(g,h,i)perylene</b>	<b>620</b>	J	<b>540</b>	<b>690</b>	<b>µg/Kg-dry</b>	20	5/3/2013 18:21
Benzo(k)fluoranthene	U		310	690	µg/Kg-dry	20	5/3/2013 18:21
Bis(2-chloroethoxy)methane	U		190	3,700	µg/Kg-dry	20	5/3/2013 18:21
Bis(2-chloroethyl)ether	U		190	3,700	µg/Kg-dry	20	5/3/2013 18:21
Bis(2-chloroisopropyl)ether	U		180	3,700	µg/Kg-dry	20	5/3/2013 18:21
Bis(2-ethylhexyl)phthalate	U		230	7,600	µg/Kg-dry	20	5/3/2013 18:21
Butyl benzyl phthalate	U		320	3,700	µg/Kg-dry	20	5/3/2013 18:21
Caprolactam	U		340	7,600	µg/Kg-dry	20	5/3/2013 18:21
Carbazole	U		260	3,700	µg/Kg-dry	20	5/3/2013 18:21
<b>Chrysene</b>	<b>950</b>		<b>260</b>	<b>690</b>	<b>µg/Kg-dry</b>	20	5/3/2013 18:21
Dibenzo(a,h)anthracene	U		390	690	µg/Kg-dry	20	5/3/2013 18:21
Dibenzofuran	U		210	3,700	µg/Kg-dry	20	5/3/2013 18:21
Diethyl phthalate	U		190	7,600	µg/Kg-dry	20	5/3/2013 18:21
Dimethyl phthalate	U		190	7,600	µg/Kg-dry	20	5/3/2013 18:21
Di-n-butyl phthalate	U		230	7,600	µg/Kg-dry	20	5/3/2013 18:21
Di-n-octyl phthalate	U		280	3,700	µg/Kg-dry	20	5/3/2013 18:21
<b>Fluoranthene</b>	<b>1,100</b>		<b>270</b>	<b>690</b>	<b>µg/Kg-dry</b>	20	5/3/2013 18:21
Fluorene	U		200	690	µg/Kg-dry	20	5/3/2013 18:21
Hexachlorobenzene	U		210	3,700	µg/Kg-dry	20	5/3/2013 18:21
Hexachlorobutadiene	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
Hexachlorocyclopentadiene	U		810	7,600	µg/Kg-dry	20	5/3/2013 18:21
Hexachloroethane	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
Indeno(1,2,3-cd)pyrene	U		440	690	µg/Kg-dry	20	5/3/2013 18:21
Isophorone	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
Naphthalene	U		200	690	µg/Kg-dry	20	5/3/2013 18:21
Nitrobenzene	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
N-Nitrosodi-n-propylamine	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
N-Nitrosodiphenylamine	U		1,400	3,700	µg/Kg-dry	20	5/3/2013 18:21
Pentachlorophenol	U		340	7,600	µg/Kg-dry	20	5/3/2013 18:21
Phenanthrene	U		690	690	µg/Kg-dry	20	5/3/2013 18:21

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-010  
**Collection Date:** 4/25/2013 01:05 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-23  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Phenol	U		200	3,700	µg/Kg-dry	20	5/3/2013 18:21
Pyrene	U		290	690	µg/Kg-dry	20	5/3/2013 18:21
Surr: 2,4,6-Tribromophenol	66.4			34-140	%REC	20	5/3/2013 18:21
Surr: 2-Fluorobiphenyl	61.2			12-100	%REC	20	5/3/2013 18:21
Surr: 2-Fluorophenol	76.0			33-117	%REC	20	5/3/2013 18:21
Surr: 4-Terphenyl-d14	77.2			25-137	%REC	20	5/3/2013 18:21
Surr: Nitrobenzene-d5	82.8			37-107	%REC	20	5/3/2013 18:21
Surr: Phenol-d6	68.4			40-106	%REC	20	5/3/2013 18:21
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			Method: <b>SW8260GRO</b>		Prep: SW5035 / 4/28/13		Analyst: <b>AK</b>
GRO (C6-C10)	U		1,500	5,800	µg/Kg-dry	1	4/29/2013 15:01
Surr: Toluene-d8	93.2			70-130	%REC	1	4/29/2013 15:01
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>		Analyst: <b>AK</b>		
1,1,1-Trichloroethane	U		0.18	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,1,2,2-Tetrachloroethane	U		0.12	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,1,2-Trichloroethane	U		0.16	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,1,2-Trichlorotrifluoroethane	U		0.23	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,1-Dichloroethane	U		0.21	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,1-Dichloroethene	U		0.19	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,2,4-Trichlorobenzene	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,2-Dibromo-3-chloropropane	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,2-Dibromoethane	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,2-Dichlorobenzene	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,2-Dichloroethane	U		0.23	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,2-Dichloropropane	U		0.22	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,3-Dichlorobenzene	U		0.16	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
1,4-Dichlorobenzene	U		0.18	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
<b>2-Butanone</b>	<b>10</b>		<b>0.64</b>	<b>8.4</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
2-Hexanone	U		0.25	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
4-Methyl-2-pentanone	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
<b>Acetone</b>	<b>43</b>		<b>0.79</b>	<b>8.4</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
<b>Benzene</b>	<b>0.61</b>	J	<b>0.21</b>	<b>4.2</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
Bromodichloromethane	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Bromoform	U		0.13	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Bromomethane	U		0.29	8.4	µg/Kg-dry	0.719	5/1/2013 12:22
<b>Carbon disulfide</b>	<b>1.2</b>	J	<b>0.31</b>	<b>4.2</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
Carbon tetrachloride	U		0.17	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Chlorobenzene	U		0.19	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Chloroethane	U		0.47	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Chloroform	U		0.22	4.2	µg/Kg-dry	0.719	5/1/2013 12:22

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** LCBP-SS-010  
**Collection Date:** 4/25/2013 01:05 PM

**Work Order:** 13041107  
**Lab ID:** 13041107-23  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.26	8.4	µg/Kg-dry	0.719	5/1/2013 12:22
cis-1,2-Dichloroethene	U		0.25	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
cis-1,3-Dichloropropene	U		0.15	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
<b>Cyclohexane</b>	<b>0.56</b>	<b>J</b>	<b>0.27</b>	<b>4.2</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
Dibromochloromethane	U		0.14	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Dichlorodifluoromethane	U		0.28	8.4	µg/Kg-dry	0.719	5/1/2013 12:22
Ethylbenzene	U		0.16	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Isopropylbenzene	U		0.16	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
m,p-Xylene	U		0.32	2.1	µg/Kg-dry	0.719	5/1/2013 12:22
Methyl acetate	U		0.67	8.4	µg/Kg-dry	0.719	5/1/2013 12:22
Methyl tert-butyl ether	U		0.21	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
<b>Methylcyclohexane</b>	<b>0.81</b>	<b>J</b>	<b>0.23</b>	<b>8.4</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
Methylene chloride	U		0.24	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
o-Xylene	U		0.17	2.1	µg/Kg-dry	0.719	5/1/2013 12:22
Styrene	U		0.15	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Tetrachloroethene	U		0.25	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
<b>Toluene</b>	<b>0.62</b>	<b>J</b>	<b>0.20</b>	<b>4.2</b>	<b>µg/Kg-dry</b>	0.719	5/1/2013 12:22
trans-1,2-Dichloroethene	U		0.25	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
trans-1,3-Dichloropropene	U		0.16	8.4	µg/Kg-dry	0.719	5/1/2013 12:22
Trichloroethene	U		0.20	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Trichlorofluoromethane	U		0.97	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Vinyl chloride	U		0.26	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Xylenes, Total	U		0.48	4.2	µg/Kg-dry	0.719	5/1/2013 12:22
Surr: 1,2-Dichloroethane-d4	110			70-120	%REC	0.719	5/1/2013 12:22
Surr: 4-Bromofluorobenzene	86.8			75-120	%REC	0.719	5/1/2013 12:22
Surr: Dibromofluoromethane	108			85-115	%REC	0.719	5/1/2013 12:22
Surr: Toluene-d8	95.4			85-120	%REC	0.719	5/1/2013 12:22
<b>MOISTURE</b>			Method: A2540 G				Analyst: DC
<b>Moisture</b>	<b>14</b>		<b>0.025</b>	<b>0.050</b>	<b>% of sample</b>	<b>1</b>	<b>4/29/2013 15:00</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** Trip Blank Water  
**Collection Date:** 4/24/2013

**Work Order:** 13041107  
**Lab ID:** 13041107-25  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260			Analyst: AK	
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	5/3/2013 03:53
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	5/3/2013 03:53
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	5/3/2013 03:53
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	5/3/2013 03:53
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	5/3/2013 03:53
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	5/3/2013 03:53
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	5/3/2013 03:53
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	5/3/2013 03:53
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	5/3/2013 03:53
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	5/3/2013 03:53
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	5/3/2013 03:53
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	5/3/2013 03:53
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	5/3/2013 03:53
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	5/3/2013 03:53
2-Butanone	U		0.22	5.0	µg/L	1	5/3/2013 03:53
2-Hexanone	U		0.12	5.0	µg/L	1	5/3/2013 03:53
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	5/3/2013 03:53
Acetone	U		0.33	20	µg/L	1	5/3/2013 03:53
Benzene	U		0.18	1.0	µg/L	1	5/3/2013 03:53
Bromodichloromethane	U		0.12	1.0	µg/L	1	5/3/2013 03:53
Bromoform	U		0.15	1.0	µg/L	1	5/3/2013 03:53
Bromomethane	U		0.21	1.0	µg/L	1	5/3/2013 03:53
Carbon disulfide	U		0.17	2.5	µg/L	1	5/3/2013 03:53
Carbon tetrachloride	U		0.12	1.0	µg/L	1	5/3/2013 03:53
Chlorobenzene	U		0.13	1.0	µg/L	1	5/3/2013 03:53
Chloroethane	U		0.46	1.0	µg/L	1	5/3/2013 03:53
Chloroform	U		0.15	1.0	µg/L	1	5/3/2013 03:53
Chloromethane	U		0.16	1.0	µg/L	1	5/3/2013 03:53
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	5/3/2013 03:53
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	5/3/2013 03:53
Cyclohexane	U		0.22	5.0	µg/L	1	5/3/2013 03:53
Dibromochloromethane	U		0.13	1.0	µg/L	1	5/3/2013 03:53
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	5/3/2013 03:53
Ethylbenzene	U		0.13	1.0	µg/L	1	5/3/2013 03:53
Isopropylbenzene	U		0.14	1.0	µg/L	1	5/3/2013 03:53
m,p-Xylene	U		0.20	2.0	µg/L	1	5/3/2013 03:53
Methyl acetate	U		0.19	2.0	µg/L	1	5/3/2013 03:53
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	5/3/2013 03:53

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** Trip Blank Water  
**Collection Date:** 4/24/2013

**Work Order:** 13041107  
**Lab ID:** 13041107-25  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.99	5.0	µg/L	1	5/3/2013 03:53
Methylene chloride	U		0.19	5.0	µg/L	1	5/3/2013 03:53
o-Xylene	U		0.086	1.0	µg/L	1	5/3/2013 03:53
Styrene	U		0.11	1.0	µg/L	1	5/3/2013 03:53
Tetrachloroethene	U		0.15	2.0	µg/L	1	5/3/2013 03:53
Toluene	U		0.12	1.0	µg/L	1	5/3/2013 03:53
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	5/3/2013 03:53
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	5/3/2013 03:53
Trichloroethene	U		0.14	1.0	µg/L	1	5/3/2013 03:53
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	5/3/2013 03:53
Vinyl chloride	U		0.17	1.0	µg/L	1	5/3/2013 03:53
Xylenes, Total	U		0.29	3.0	µg/L	1	5/3/2013 03:53
Surr: 1,2-Dichloroethane-d4	90.4			70-120	%REC	1	5/3/2013 03:53
Surr: 4-Bromofluorobenzene	96.8			75-120	%REC	1	5/3/2013 03:53
Surr: Dibromofluoromethane	99.7			85-115	%REC	1	5/3/2013 03:53
Surr: Toluene-d8	103			85-120	%REC	1	5/3/2013 03:53

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** Trip Blank Soil  
**Collection Date:** 4/24/2013

**Work Order:** 13041107  
**Lab ID:** 13041107-26  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260</b>			Analyst: <b>AK</b>	
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg	1	4/30/2013 16:54
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg	1	4/30/2013 16:54
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg	1	4/30/2013 16:54
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg	1	4/30/2013 16:54
1,1-Dichloroethane	U		0.26	5.0	µg/Kg	1	4/30/2013 16:54
1,1-Dichloroethene	U		0.23	5.0	µg/Kg	1	4/30/2013 16:54
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg	1	4/30/2013 16:54
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg	1	4/30/2013 16:54
1,2-Dibromoethane	U		0.20	5.0	µg/Kg	1	4/30/2013 16:54
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg	1	4/30/2013 16:54
1,2-Dichloroethane	U		0.28	5.0	µg/Kg	1	4/30/2013 16:54
1,2-Dichloropropane	U		0.26	5.0	µg/Kg	1	4/30/2013 16:54
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg	1	4/30/2013 16:54
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg	1	4/30/2013 16:54
2-Butanone	U		0.77	10	µg/Kg	1	4/30/2013 16:54
2-Hexanone	U		0.30	5.0	µg/Kg	1	4/30/2013 16:54
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg	1	4/30/2013 16:54
<b>Acetone</b>	<b>2.1</b>	<b>J</b>	<b>0.94</b>	<b>10</b>	<b>µg/Kg</b>	1	4/30/2013 16:54
Benzene	U		0.25	5.0	µg/Kg	1	4/30/2013 16:54
Bromodichloromethane	U		0.21	5.0	µg/Kg	1	4/30/2013 16:54
Bromoform	U		0.15	5.0	µg/Kg	1	4/30/2013 16:54
Bromomethane	U		0.35	10	µg/Kg	1	4/30/2013 16:54
Carbon disulfide	U		0.37	5.0	µg/Kg	1	4/30/2013 16:54
Carbon tetrachloride	U		0.20	5.0	µg/Kg	1	4/30/2013 16:54
Chlorobenzene	U		0.22	5.0	µg/Kg	1	4/30/2013 16:54
Chloroethane	U		0.56	5.0	µg/Kg	1	4/30/2013 16:54
Chloroform	U		0.26	5.0	µg/Kg	1	4/30/2013 16:54
Chloromethane	U		0.31	10	µg/Kg	1	4/30/2013 16:54
cis-1,2-Dichloroethene	U		0.30	5.0	µg/Kg	1	4/30/2013 16:54
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg	1	4/30/2013 16:54
Cyclohexane	U		0.32	5.0	µg/Kg	1	4/30/2013 16:54
Dibromochloromethane	U		0.17	5.0	µg/Kg	1	4/30/2013 16:54
Dichlorodifluoromethane	U		0.33	10	µg/Kg	1	4/30/2013 16:54
Ethylbenzene	U		0.19	5.0	µg/Kg	1	4/30/2013 16:54
Isopropylbenzene	U		0.19	5.0	µg/Kg	1	4/30/2013 16:54
m,p-Xylene	U		0.38	2.5	µg/Kg	1	4/30/2013 16:54
Methyl acetate	U		0.80	10	µg/Kg	1	4/30/2013 16:54
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg	1	4/30/2013 16:54

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 09-May-13

**Client:** Tetra Tech  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13  
**Sample ID:** Trip Blank Soil  
**Collection Date:** 4/24/2013

**Work Order:** 13041107  
**Lab ID:** 13041107-26  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.28	10	µg/Kg	1	4/30/2013 16:54
Methylene chloride	U		0.28	5.0	µg/Kg	1	4/30/2013 16:54
o-Xylene	U		0.20	2.5	µg/Kg	1	4/30/2013 16:54
Styrene	U		0.18	5.0	µg/Kg	1	4/30/2013 16:54
Tetrachloroethene	U		0.30	5.0	µg/Kg	1	4/30/2013 16:54
<b>Toluene</b>	<b>0.56</b>	<b>J</b>	<b>0.24</b>	<b>5.0</b>	<b>µg/Kg</b>	<b>1</b>	<b>4/30/2013 16:54</b>
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg	1	4/30/2013 16:54
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg	1	4/30/2013 16:54
Trichloroethene	U		0.23	5.0	µg/Kg	1	4/30/2013 16:54
Trichlorofluoromethane	U		1.2	5.0	µg/Kg	1	4/30/2013 16:54
Vinyl chloride	U		0.30	5.0	µg/Kg	1	4/30/2013 16:54
Xylenes, Total	U		0.58	5.0	µg/Kg	1	4/30/2013 16:54
Surr: 1,2-Dichloroethane-d4	114			70-120	%REC	1	4/30/2013 16:54
Surr: 4-Bromofluorobenzene	87.9			75-120	%REC	1	4/30/2013 16:54
Surr: Dibromofluoromethane	105			85-115	%REC	1	4/30/2013 16:54
Surr: Toluene-d8	95.6			85-120	%REC	1	4/30/2013 16:54

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 09-May-13

Client: Tetra Tech

Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

Work Order: 13041107

Sample ID: LCBP-SC-001

Lab ID: 13041107-24

Collection Date: 4/25/2013 01:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PARTICLE-SIZE ANALYSIS OF SOILS</b>			<b>D422</b>			Analyst: <b>KK</b>
3 Inch Sieve	100			% Passing	1	5/3/2013
1.5 Inch Sieve	100			% Passing	1	5/3/2013
0.75 Inch Sieve	100			% Passing	1	5/3/2013
0.375 Inch Sieve	100			% Passing	1	5/3/2013
No. 4 Sieve (4.75 mm)	100			% Passing	1	5/3/2013
No. 10 Sieve (2.00 mm)	95.0			% Passing	1	5/3/2013
No. 16 Sieve (1.18 mm)	94.2			% Passing	1	5/3/2013
No. 30 Sieve (0.60 mm)	93.0			% Passing	1	5/3/2013
No. 50 Sieve (0.30 mm)	92.1			% Passing	1	5/3/2013
No. 60 Sieve (0.25 mm)	91.9			% Passing	1	5/3/2013
No. 100 Sieve (0.15 mm)	91.1			% Passing	1	5/3/2013
No. 200 Sieve (0.075 mm)	90.1			% Passing	1	5/3/2013
0.030 mm (Hydrometer)	80.5			% Passing	1	5/3/2013
0.005 mm (Hydrometer)	63.0			% Passing	1	5/3/2013
0.0015 mm (Hydrometer)	50.0			% Passing	1	5/3/2013
% Gravel	5.03			% Passing	1	5/3/2013
% Sand	4.84			% Passing	1	5/3/2013
% Silt, Clay, Colloids	90.1			% Passing	1	5/3/2013

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

**QC BATCH REPORT**

Batch ID: **48079** Instrument ID **HG1** Method: **SW7470**

<b>MBLK</b>		Sample ID: <b>MBLK-48079-48079</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/1/2013 03:13 PM</b>		
Client ID:		Run ID: <b>HG1_130501A</b>				SeqNo: <b>2299927</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

<b>LCS</b>		Sample ID: <b>LCS-48079-48079</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/1/2013 03:15 PM</b>		
Client ID:		Run ID: <b>HG1_130501A</b>				SeqNo: <b>2299928</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00196	0.00020	0.002	0	98	80-120	0			

<b>MS</b>		Sample ID: <b>13041114-02AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/1/2013 04:02 PM</b>		
Client ID:		Run ID: <b>HG1_130501A</b>				SeqNo: <b>2300065</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.01961	0.0020	0.02	0.00029	96.6	75-125	0			

<b>MSD</b>		Sample ID: <b>13041114-02AMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/1/2013 04:04 PM</b>		
Client ID:		Run ID: <b>HG1_130501A</b>				SeqNo: <b>2300066</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.02028	0.0020	0.02	0.00029	100	75-125	0.01961	3.36	20	

The following samples were analyzed in this batch:

13041107-01C	13041107-01D	13041107-02C
13041107-02D	13041107-04C	13041107-04D
13041107-19C	13041107-19D	



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48087**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>		Sample ID: <b>MBLK-48087-48087</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 02:20 PM</b>		
Client ID:		Run ID: <b>HG1_130502A</b>				SeqNo: <b>2301818</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001583	0.020								J

<b>LCS</b>		Sample ID: <b>LCS-48087-48087</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 02:22 PM</b>		
Client ID:		Run ID: <b>HG1_130502A</b>				SeqNo: <b>2301820</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.174	0.020	0.1665	0	105	80-120	0			

<b>MS</b>		Sample ID: <b>13041107-13CMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 03:01 PM</b>		
Client ID: <b>LCPB-SS-005</b>		Run ID: <b>HG1_130502A</b>				SeqNo: <b>2301864</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1242	0.015	0.1215	0.005107	98	75-125	0			

<b>MSD</b>		Sample ID: <b>13041107-13CMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 03:03 PM</b>		
Client ID: <b>LCPB-SS-005</b>		Run ID: <b>HG1_130502A</b>				SeqNo: <b>2301865</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.129	0.015	0.125	0.005107	99.1	75-125	0.1242	3.81	35	

The following samples were analyzed in this batch:

13041107-03C	13041107-05C	13041107-06C
13041107-07C	13041107-08C	13041107-09C
13041107-10C	13041107-11C	13041107-12C
13041107-13C	13041107-14C	13041107-15C
13041107-16C	13041107-17C	13041107-18C

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48122**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>		Sample ID: <b>MBLK-48122-48122</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:10 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303644</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001833	0.020								J

<b>LCS</b>		Sample ID: <b>LCS-48122-48122</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:12 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303645</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1729	0.020	0.1665	0	104	80-120	0			

<b>MS</b>		Sample ID: <b>1305016-02BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:41 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303659</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1175	0.013	0.1092	0.01669	92.3	75-125	0			

<b>MSD</b>		Sample ID: <b>1305016-02BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 02:43 PM</b>		
Client ID:		Run ID: <b>HG1_130503A</b>				SeqNo: <b>2303660</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.129	0.015	0.125	0.01669	89.8	75-125	0.1175	9.32	35	

The following samples were analyzed in this batch:

13041107-20C	13041107-21C	13041107-22C
13041107-23C		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48084**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-48084-48084</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 10:46 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130502A</b>				SeqNo: <b>2302527</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	0.0351	0.25								J
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	0.1241	0.25								J
Selenium	0.0512	0.25								J
Silver	U	0.25								

<b>LCS</b>		Sample ID: <b>LCS-48084-48084</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 11:10 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130502A</b>				SeqNo: <b>2302537</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.358	0.25	5	0	87.2	80-120	0			
Barium	4.701	0.25	5	0	94	80-120	0			
Cadmium	4.59	0.10	5	0	91.8	80-120	0			
Chromium	4.7	0.25	5	0	94	80-120	0			
Lead	4.864	0.25	5	0	97.3	80-120	0			
Selenium	4.028	0.25	5	0	80.6	80-120	0			
Silver	4.696	0.25	5	0	93.9	80-120	0			

<b>MS</b>		Sample ID: <b>13041084-01AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/2/2013 03:12 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130502A</b>				SeqNo: <b>2302427</b>		Prep Date: <b>5/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.827	0.36	7.194	3.996	81	75-125	0			
Barium	46.39	0.36	7.194	46.65	-3.57	75-125	0			SO
Cadmium	8.079	0.14	7.194	2.45	78.2	75-125	0			
Chromium	14.32	0.36	7.194	8.297	83.8	75-125	0			
Lead	420.3	0.36	7.194	567.7	-2050	75-125	0			SEO
Selenium	6.15	0.36	7.194	0.1079	84	75-125	0			
Silver	6.543	0.36	7.194	0.02417	90.6	75-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48084**      Instrument ID **ICPMS1**      Method: **SW6020A**

MSD					Sample ID: 13041084-01AMSD		Units: mg/Kg		Analysis Date: 5/2/2013 03:19 PM		
Client ID:			Run ID: ICPMS1_130502A			SeqNo: 2302428		Prep Date: 5/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	8.303	0.36	7.102	3.996	60.6	75-125	9.827	16.8	25	S	
Barium	25.99	0.36	7.102	46.65	-291	75-125	46.39	56.4	25	SRO	
Cadmium	6.782	0.14	7.102	2.45	61	75-125	8.079	17.5	25	S	
Chromium	10.45	0.36	7.102	8.297	30.3	75-125	14.32	31.3	25	SR	
Lead	126.6	0.36	7.102	567.7	-6210	75-125	420.3	107	25	SRO	
Selenium	5.957	0.36	7.102	0.1079	82.4	75-125	6.15	3.19	25		
Silver	6.479	0.36	7.102	0.02417	90.9	75-125	6.543	0.979	25		

The following samples were analyzed in this batch:

13041107-03C	13041107-05C	13041107-06C
13041107-07C	13041107-08C	13041107-09C
13041107-10C	13041107-11C	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48112**      Instrument ID **ICPMS2**      Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-48112-48112</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/2/2013 05:51 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130502A</b>				SeqNo: <b>2303027</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

<b>LCS</b>		Sample ID: <b>LCS-48112-48112</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/2/2013 05:56 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130502A</b>				SeqNo: <b>2303028</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09209	0.0050	0.1	0	92.1	80-120	0			
Barium	0.09285	0.0050	0.1	0	92.8	80-120	0			
Cadmium	0.09444	0.0020	0.1	0	94.4	80-120	0			
Chromium	0.08972	0.0050	0.1	0	89.7	80-120	0			
Lead	0.09261	0.0050	0.1	0	92.6	80-120	0			
Selenium	0.09073	0.0050	0.1	0	90.7	80-120	0			
Silver	0.09133	0.0050	0.1	0	91.3	80-120	0			

<b>MS</b>		Sample ID: <b>13041128-06BMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/2/2013 07:47 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130502A</b>				SeqNo: <b>2303047</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09772	0.0050	0.1	0.0001557	97.6	75-125	0			
Barium	0.1153	0.0050	0.1	0.02038	94.9	75-125	0			
Cadmium	0.0955	0.0020	0.1	0.00001115	95.5	75-125	0			
Chromium	0.09327	0.0050	0.1	0.0001646	93.1	75-125	0			
Lead	0.09404	0.0050	0.1	0.000199	93.8	75-125	0			
Selenium	0.09401	0.0050	0.1	0.0009018	93.1	75-125	0			
Silver	0.0918	0.0050	0.1	1.908E-06	91.8	75-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48112**      Instrument ID **ICPMS2**      Method: **SW6020A**

MSD		Sample ID: <b>13041128-07BMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/2/2013 07:53 PM</b>		
Client ID:		Run ID: <b>ICPMS2_130502A</b>				SeqNo: <b>2303048</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09885	0.0050	0.1	0.0001557	98.7	75-125	0.09772	1.15	20	
Barium	0.118	0.0050	0.1	0.02038	97.6	75-125	0.1153	2.31	20	
Cadmium	0.09667	0.0020	0.1	0.00001115	96.7	75-125	0.0955	1.22	20	
Chromium	0.09441	0.0050	0.1	0.0001646	94.2	75-125	0.09327	1.21	20	
Lead	0.09506	0.0050	0.1	0.000199	94.9	75-125	0.09404	1.08	20	
Selenium	0.09431	0.0050	0.1	0.0009018	93.4	75-125	0.09401	0.319	20	
Silver	0.09278	0.0050	0.1	1.908E-06	92.8	75-125	0.0918	1.06	20	

The following samples were analyzed in this batch:

13041107-01C	13041107-02C	13041107-04C
13041107-19C		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48124**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-48124-48124</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 11:11 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2304978</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Lead	U	0.25								
Selenium	U	0.25								
Silver	0.001223	0.25								J

<b>LCS</b>		Sample ID: <b>LCS-48124-48124</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 11:17 PM</b>		
Client ID:		Run ID: <b>ICPMS1_130503A</b>				SeqNo: <b>2304980</b>		Prep Date: <b>5/2/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.43	0.25	5	0	88.6	80-120	0			
Barium	4.738	0.25	5	0	94.8	80-120	0			
Cadmium	4.558	0.10	5	0	91.2	80-120	0			
Chromium	4.747	0.25	5	0	94.9	80-120	0			
Lead	4.944	0.25	5	0	98.9	80-120	0			
Selenium	4.02	0.25	5	0	80.4	80-120	0			
Silver	4.506	0.25	5	0	90.1	80-120	0			

<b>MS</b>		Sample ID: <b>1305016-02BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 08:44 AM</b>		
Client ID:		Run ID: <b>ICPMS1_130502A</b>				SeqNo: <b>2302824</b>		Prep Date: <b>5/2/2013</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.16	1.8	7.133	4.379	109	75-125	0			
Barium	328.7	1.8	7.133	411.8	-1170	75-125	0			SO
Cadmium	7.411	0.71	7.133	0.4296	97.9	75-125	0			
Chromium	19.4	1.8	7.133	10.38	126	75-125	0			S
Lead	18.31	1.8	7.133	9.942	117	75-125	0			
Selenium	6.969	1.8	7.133	0.392	92.2	75-125	0			
Silver	6.141	1.8	7.133	0.05322	85.4	75-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48124**      Instrument ID **ICPMS1**      Method: **SW6020A**

MSD				Sample ID: <b>1305016-02BMSD</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>5/3/2013 08:50 AM</b>	
Client ID:				Run ID: <b>ICPMS1_130502A</b>			SeqNo: <b>2302825</b>		Prep Date: <b>5/2/2013</b>	
							DF: <b>5</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.96	1.8	7.299	4.379	104	75-125	12.16	1.7	25	
Barium	416.1	1.8	7.299	411.8	57.7	75-125	328.7	23.5	25	SO
Cadmium	7.81	0.73	7.299	0.4296	101	75-125	7.411	5.25	25	
Chromium	20.65	1.8	7.299	10.38	141	75-125	19.4	6.25	25	S
Lead	18.4	1.8	7.299	9.942	116	75-125	18.31	0.5	25	
Selenium	7.328	1.8	7.299	0.392	95	75-125	6.969	5.03	25	
Silver	6.219	1.8	7.299	0.05322	84.5	75-125	6.141	1.26	25	

The following samples were analyzed in this batch:

13041107-12C	13041107-13C	13041107-14C
13041107-15C	13041107-16C	13041107-17C
13041107-18C	13041107-20C	13041107-21C
13041107-22C	13041107-23C	

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

# QC BATCH REPORT

Batch ID: **R119932A**    Instrument ID **ICPMS2**    Method: **SW6020A**    **(Dissolve)**

<b>MS</b>		Sample ID: <b>13041107-01DMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/2/2013 01:05 AM</b>		
Client ID: <b>LCBP-WA-001</b>		Run ID: <b>ICPMS2_130501A</b>				SeqNo: <b>2300827</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1152	0.0050	0.1	-0.0003026	116	75-125	0			
Barium	0.151	0.0050	0.1	0.04321	108	75-125	0			
Cadmium	0.1083	0.0020	0.1	0.0002279	108	75-125	0			
Chromium	0.1072	0.0050	0.1	0.0003539	107	75-125	0			
Lead	0.1108	0.0050	0.1	0.000184	111	75-125	0			
Selenium	0.1259	0.0050	0.1	0.006182	120	75-125	0			
Silver	0.1044	0.0050	0.1	-1.264E-06	104	75-125	0			

<b>MSD</b>		Sample ID: <b>13041107-01DMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/2/2013 01:26 AM</b>		
Client ID: <b>LCBP-WA-001</b>		Run ID: <b>ICPMS2_130501A</b>				SeqNo: <b>2300832</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1106	0.0050	0.1	-0.0003026	111	75-125	0.1152	4.07	20	
Barium	0.1467	0.0050	0.1	0.04321	103	75-125	0.151	2.89	20	
Cadmium	0.1041	0.0020	0.1	0.0002279	104	75-125	0.1083	3.95	20	
Chromium	0.1038	0.0050	0.1	0.0003539	103	75-125	0.1072	3.22	20	
Lead	0.1054	0.0050	0.1	0.000184	105	75-125	0.1108	5	20	
Selenium	0.1221	0.0050	0.1	0.006182	116	75-125	0.1259	3.06	20	
Silver	0.1012	0.0050	0.1	-1.264E-06	101	75-125	0.1044	3.11	20	

The following samples were analyzed in this batch:

13041107-01D	13041107-02D	13041107-04D
13041107-19D		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKW1-48000-48000</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 10:01 AM</b>		
Client ID:		Run ID: <b>SVMS7_130430A</b>				SeqNo: <b>2299571</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	20								
2-Chlorophenol	U	5.0								
2-Nitrophenol	U	5.0								
4,6-Dinitro-2-methylphenol	U	20								
4-Chloro-3-methylphenol	U	5.0								
4-Nitrophenol	U	20								
Pentachlorophenol	U	20								
Phenol	U	5.0								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>29.23</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>58.5</i>	<i>32-115</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>22.57</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>45.1</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>11.19</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>22.4</i>	<i>13-36</i>	<i>0</i>			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKW1-48000-48000</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 10:01 AM</b>		
Client ID:		Run ID: <b>SVMS7_130430A</b>				SeqNo: <b>2299618</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	20								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Nitrophenol	U	5.0								
3,3'-Dichlorobenzidine	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	10								
Anthracene	U	5.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Carbazole	U	10								
Chrysene	U	5.0								
Dibenzo(a,h)anthracene	U	5.0								
Dibenzofuran	U	5.0								
Diethyl phthalate	1.27	20								J
Dimethyl phthalate	U	20								
Di-n-butyl phthalate	1.82	5.0								J
Di-n-octyl phthalate	U	5.0								
Fluoranthene	U	5.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>	Instrument ID <b>SVMS7</b>	Method: <b>SW8270</b>						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	20						
Hexachloroethane	U	5.0						
Indeno(1,2,3-cd)pyrene	U	5.0						
Isophorone	U	5.0						
Naphthalene	U	5.0						
Nitrobenzene	U	5.0						
N-Nitrosodi-n-propylamine	U	5.0						
N-Nitrosodiphenylamine	U	5.0						
Pentachlorophenol	U	20						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>29.23</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>58.5</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>32.82</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>65.6</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>22.57</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>45.1</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>49.94</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>25.5</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>51</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>11.19</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>22.4</i>	<i>13-36</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MBLK		Sample ID: <b>SBLKW1-48000-48000</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 10:01 AM</b>		
Client ID:		Run ID: <b>SVMS7_130430A</b>				SeqNo: <b>2300239</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	20								
2-Nitrophenol	U	5.0								
3,3'-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitroaniline	U	20								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	10								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>				
Chrysene	U	5.0						
Dibenzo(a,h)anthracene	U	5.0						
Dibenzofuran	U	5.0						
Diethyl phthalate	1.27	20						J
Dimethyl phthalate	U	20						
Di-n-butyl phthalate	1.82	5.0						J
Di-n-octyl phthalate	U	5.0						
Fluoranthene	U	5.0						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	20						
Hexachloroethane	U	5.0						
Indeno(1,2,3-cd)pyrene	U	5.0						
Isophorone	U	5.0						
Naphthalene	U	5.0						
Nitrobenzene	U	5.0						
N-Nitrosodi-n-propylamine	U	5.0						
N-Nitrosodiphenylamine	U	5.0						
Pentachlorophenol	U	20						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>29.23</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>58.5</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>32.82</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>65.6</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>22.57</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>45.1</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>49.94</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>25.5</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>51</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>11.19</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>22.4</i>	<i>13-36</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKW1-48000-48000</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 10:01 AM</b>		
Client ID:		Run ID: <b>SVMS7_130430A</b>				SeqNo: <b>2300310</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	20								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Nitrophenol	U	5.0								
3,3'-Dichlorobenzidine	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chlorophenyl phenyl ether	U	5.0								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Anthracene	U	5.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Chrysene	U	5.0								
Dibenzo(a,h)anthracene	U	5.0								
Diethyl phthalate	1.27	20								J
Dimethyl phthalate	U	20								
Di-n-butyl phthalate	1.82	5.0								J
Di-n-octyl phthalate	U	5.0								
Fluoranthene	U	5.0								
Fluorene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachlorobutadiene	U	5.0								
Hexachlorocyclopentadiene	U	20								
Hexachloroethane	U	5.0								
Indeno(1,2,3-cd)pyrene	U	5.0								
Isophorone	U	5.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>	Instrument ID <b>SVMS7</b>	Method: <b>SW8270</b>
Naphthalene	U	5.0
Nitrobenzene	U	5.0
N-Nitrosodi-n-propylamine	U	5.0
N-Nitrosodiphenylamine	U	5.0
Pentachlorophenol	U	20
Phenanthrene	U	5.0
Phenol	U	5.0
Pyrene	U	5.0
<i>Surr: 2,4,6-Tribromophenol</i>	29.23	0 50 0 58.5 21-125 0
<i>Surr: 2-Fluorobiphenyl</i>	32.82	0 50 0 65.6 36-94 0
<i>Surr: 2-Fluorophenol</i>	22.57	0 50 0 45.1 10-75 0
<i>Surr: 4-Terphenyl-d14</i>	49.94	0 50 0 99.9 26-119 0
<i>Surr: Nitrobenzene-d5</i>	25.5	0 50 0 51 41-104 0
<i>Surr: Phenol-d6</i>	11.19	0 50 0 22.4 11-50 0

LCS					Sample ID: <b>SLCSW1-48000-48000</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 08:31 AM</b>	
Client ID:			Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2299567</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2-Chlorophenol	11.58	5.0	20	0	57.9	25-85	0				
4-Chloro-3-methylphenol	9.67	5.0	20	0	48.4	19-103	0				
4-Nitrophenol	5.82	20	20	0	29.1	1-58	0			J	
Pentachlorophenol	12.17	20	20	0	60.8	9-103	0			J	
Phenol	4.28	5.0	20	0	21.4	12-43	0			J	
<i>Surr: 2,4,6-Tribromophenol</i>	30.95	0	50	0	61.9	32-115	0				
<i>Surr: 2-Fluorophenol</i>	20	0	50	0	40	22-59	0				
<i>Surr: Phenol-d6</i>	10.3	0	50	0	20.6	13-36	0				

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

LCS Sample ID: <b>SLCSW1-48000-48000</b>				Units: <b>µg/L</b>			Analysis Date: <b>4/30/2013 08:31 AM</b>			
Client ID:		Run ID: <b>SVMS7_130430A</b>		SeqNo: <b>2299614</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	13.13	5.0	20	0	65.6	50-110	0			
2,4,6-Trichlorophenol	13.11	5.0	20	0	65.6	50-115	0			
2,4-Dichlorophenol	10.35	10	20	0	51.8	50-105	0			
2,4-Dimethylphenol	9.04	5.0	20	0	45.2	30-110	0			
2,4-Dinitrophenol	11.34	20	20	0	56.7	15-140	0			J
2,4-Dinitrotoluene	11.96	5.0	20	0	59.8	50-120	0			
2,6-Dinitrotoluene	12.05	5.0	20	0	60.2	50-115	0			
2-Chloronaphthalene	12.83	5.0	20	0	64.2	50-105	0			
2-Chlorophenol	11.58	5.0	20	0	57.9	35-105	0			
2-Methylnaphthalene	10.53	5.0	20	0	52.6	45-105	0			
2-Nitrophenol	10.6	5.0	20	0	53	40-115	0			
4,6-Dinitro-2-methylphenol	12.69	20	20	0	63.4	40-130	0			J
4-Bromophenyl phenyl ether	13.87	5.0	20	0	69.4	50-115	0			
4-Chloro-3-methylphenol	9.67	5.0	20	0	48.4	45-110	0			
4-Chloroaniline	10.32	20	20	0	51.6	15-110	0			J
4-Chlorophenyl phenyl ether	10.84	5.0	20	0	54.2	50-110	0			
4-Methylphenol	8.32	5.0	20	0	41.6	30-110	0			
4-Nitrophenol	5.82	20	20	0	29.1	1-58	0			J
Acenaphthene	10.67	5.0	20	0	53.4	45-110	0			
Acenaphthylene	11.18	5.0	20	0	55.9	50-105	0			
Acetophenone	11.83	10	20	0	59.2	80-120	0			S
Anthracene	11.08	5.0	20	0	55.4	55-110	0			
Benzo(a)anthracene	14.24	5.0	20	0	71.2	55-110	0			
Benzo(a)pyrene	15.15	5.0	20	0	75.8	55-110	0			
Benzo(b)fluoranthene	15.67	5.0	20	0	78.4	45-120	0			
Benzo(g,h,i)perylene	15.08	5.0	20	0	75.4	40-125	0			
Benzo(k)fluoranthene	13.5	5.0	20	0	67.5	45-125	0			
Bis(2-chloroethoxy)methane	10.98	5.0	20	0	54.9	45-105	0			
Bis(2-chloroethyl)ether	13.49	5.0	20	0	67.4	35-110	0			
Bis(2-chloroisopropyl)ether	12.69	5.0	20	0	63.4	25-130	0			
Bis(2-ethylhexyl)phthalate	14.47	5.0	20	0	72.4	40-125	0			
Butyl benzyl phthalate	14.58	5.0	20	0	72.9	45-115	0			
Carbazole	11.71	10	20	0	58.6	50-130	0			
Chrysene	13.48	5.0	20	0	67.4	55-110	0			
Dibenzo(a,h)anthracene	14.84	5.0	20	0	74.2	40-125	0			
Diethyl phthalate	12.26	20	20	0	61.3	40-120	0			J
Dimethyl phthalate	11.72	20	20	0	58.6	25-125	0			J
Di-n-butyl phthalate	11.86	5.0	20	0	59.3	55-115	0			
Di-n-octyl phthalate	17.16	5.0	20	0	85.8	35-135	0			
Fluoranthene	11.6	5.0	20	0	58	55-115	0			
Fluorene	10.56	5.0	20	0	52.8	50-110	0			
Hexachlorobenzene	13.4	5.0	20	0	67	50-110	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>	Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>					
Hexachlorobutadiene	12.68	5.0	20	0	63.4	25-105	0	
Hexachlorocyclopentadiene	11.33	20	20	0	56.6	25-105	0	J
Hexachloroethane	13.43	5.0	20	0	67.2	30-95	0	
Indeno(1,2,3-cd)pyrene	15.89	5.0	20	0	79.4	45-125	0	
Isophorone	11.24	5.0	20	0	56.2	50-110	0	
Naphthalene	11.92	5.0	20	0	59.6	40-100	0	
Nitrobenzene	11.28	5.0	20	0	56.4	45-110	0	
N-Nitrosodi-n-propylamine	11.29	5.0	20	0	56.4	35-130	0	
N-Nitrosodiphenylamine	12.39	5.0	20	0	62	50-110	0	
Pentachlorophenol	12.17	20	20	0	60.8	40-115	0	J
Phenanthrene	11.9	5.0	20	0	59.5	50-115	0	
Phenol	4.28	5.0	20	0	21.4	12-43	0	J
Pyrene	17.25	5.0	20	0	86.2	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>30.95</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>61.9</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>31.6</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>63.2</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>20</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>40</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>45.84</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>91.7</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>26.96</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>53.9</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>10.3</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>20.6</i>	<i>13-36</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

LCS Sample ID: <b>SLCSW1-48000-48000</b>				Units: <b>µg/L</b>			Analysis Date: <b>4/30/2013 08:31 AM</b>			
Client ID:		Run ID: <b>SVMS7_130430A</b>		SeqNo: <b>2300235</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	13.13	5.0	20	0	65.6	50-110	0			
2,4,6-Trichlorophenol	13.11	5.0	20	0	65.6	50-115	0			
2,4-Dichlorophenol	10.35	10	20	0	51.8	50-105	0			
2,4-Dimethylphenol	9.04	5.0	20	0	45.2	30-110	0			
2,4-Dinitrophenol	11.34	5.0	20	0	56.7	15-140	0			
2,4-Dinitrotoluene	11.96	5.0	20	0	59.8	50-120	0			
2,6-Dinitrotoluene	12.05	5.0	20	0	60.2	50-115	0			
2-Chloronaphthalene	12.83	5.0	20	0	64.2	50-105	0			
2-Chlorophenol	11.58	5.0	20	0	57.9	35-105	0			
2-Methylnaphthalene	10.53	5.0	20	0	52.6	45-105	0			
2-Methylphenol	9.14	5.0	20	0	45.7	40-110	0			
2-Nitroaniline	11.73	20	20	0	58.6	50-115	0			J
2-Nitrophenol	10.6	5.0	20	0	53	40-115	0			
3-Nitroaniline	10.68	20	20	0	53.4	20-125	0			J
4,6-Dinitro-2-methylphenol	12.69	20	20	0	63.4	40-130	0			J
4-Bromophenyl phenyl ether	13.87	5.0	20	0	69.4	50-115	0			
4-Chloro-3-methylphenol	9.67	5.0	20	0	48.4	45-110	0			
4-Chloroaniline	10.32	20	20	0	51.6	15-110	0			J
4-Chlorophenyl phenyl ether	10.84	5.0	20	0	54.2	50-110	0			
4-Methylphenol	8.32	5.0	20	0	41.6	30-110	0			
4-Nitroaniline	8.96	20	20	0	44.8	35-150	0			J
4-Nitrophenol	5.82	20	20	0	29.1	1-58	0			J
Acenaphthene	10.67	5.0	20	0	53.4	45-110	0			
Acenaphthylene	11.18	5.0	20	0	55.9	50-105	0			
Anthracene	11.08	5.0	20	0	55.4	55-110	0			
Benzo(a)anthracene	14.24	5.0	20	0	71.2	55-110	0			
Benzo(a)pyrene	15.15	5.0	20	0	75.8	55-110	0			
Benzo(b)fluoranthene	15.67	5.0	20	0	78.4	45-120	0			
Benzo(g,h,i)perylene	15.08	5.0	20	0	75.4	40-125	0			
Benzo(k)fluoranthene	13.5	5.0	20	0	67.5	45-125	0			
Bis(2-chloroethoxy)methane	10.98	5.0	20	0	54.9	45-105	0			
Bis(2-chloroethyl)ether	13.49	5.0	20	0	67.4	35-110	0			
Bis(2-chloroisopropyl)ether	12.69	5.0	20	0	63.4	25-130	0			
Bis(2-ethylhexyl)phthalate	14.47	5.0	20	0	72.4	40-125	0			
Butyl benzyl phthalate	14.58	5.0	20	0	72.9	45-115	0			
Carbazole	11.71	10	20	0	58.6	50-150	0			
Chrysene	13.48	5.0	20	0	67.4	55-110	0			
Dibenzo(a,h)anthracene	14.84	5.0	20	0	74.2	40-125	0			
Dibenzofuran	12.34	5.0	20	0	61.7	55-105	0			
Diethyl phthalate	12.26	20	20	0	61.3	40-120	0			J
Dimethyl phthalate	11.72	20	20	0	58.6	25-125	0			J
Di-n-butyl phthalate	11.86	5.0	20	0	59.3	55-115	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>				
Di-n-octyl phthalate	17.16	5.0	20	0	85.8	35-135	0	
Fluoranthene	11.6	5.0	20	0	58	55-115	0	
Fluorene	10.56	5.0	20	0	52.8	50-110	0	
Hexachlorobenzene	13.4	5.0	20	0	67	50-110	0	
Hexachlorobutadiene	12.68	5.0	20	0	63.4	25-105	0	
Hexachlorocyclopentadiene	11.33	20	20	0	56.6	25-105	0	J
Hexachloroethane	13.43	5.0	20	0	67.2	30-95	0	
Indeno(1,2,3-cd)pyrene	15.89	5.0	20	0	79.4	45-125	0	
Isophorone	11.24	5.0	20	0	56.2	50-110	0	
Naphthalene	11.92	5.0	20	0	59.6	40-100	0	
Nitrobenzene	11.28	5.0	20	0	56.4	45-110	0	
N-Nitrosodi-n-propylamine	11.29	5.0	20	0	56.4	35-130	0	
N-Nitrosodiphenylamine	12.39	5.0	20	0	62	50-110	0	
Pentachlorophenol	12.17	20	20	0	60.8	40-115	0	J
Phenanthrene	11.9	5.0	20	0	59.5	50-115	0	
Phenol	4.28	5.0	20	0	21.4	12-43	0	J
Pyrene	17.25	5.0	20	0	86.2	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	30.95	0	50	0	61.9	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	31.6	0	50	0	63.2	32-100	0	
<i>Surr: 2-Fluorophenol</i>	20	0	50	0	40	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	45.84	0	50	0	91.7	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	26.96	0	50	0	53.9	31-93	0	
<i>Surr: Phenol-d6</i>	10.3	0	50	0	20.6	13-36	0	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

<b>LCS</b>		Sample ID: <b>SLCSW1-48000-48000</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 08:31 AM</b>		
Client ID:		Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2300302</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	11.96	5.0	20	0	59.8	50-120	0			
2-Chlorophenol	11.58	5.0	20	0	57.9	35-105	0			
4-Chloro-3-methylphenol	9.67	5.0	20	0	48.4	45-110	0			
4-Nitrophenol	5.82	20	20	0	29.1	1-58	0			J
Acenaphthene	10.67	5.0	20	0	53.4	45-110	0			
Acenaphthylene	11.18	5.0	20	0	55.9	50-105	0			
Anthracene	11.08	5.0	20	0	55.4	55-110	0			
Benzo(a)anthracene	14.24	5.0	20	0	71.2	55-110	0			
Benzo(a)pyrene	15.15	5.0	20	0	75.8	55-110	0			
Benzo(b)fluoranthene	15.67	5.0	20	0	78.4	45-120	0			
Benzo(g,h,i)perylene	15.08	5.0	20	0	75.4	40-125	0			
Benzo(k)fluoranthene	13.5	5.0	20	0	67.5	45-125	0			
Butyl benzyl phthalate	14.58	5.0	20	0	72.9	45-115	0			
Chrysene	13.48	5.0	20	0	67.4	55-110	0			
Dibenzo(a,h)anthracene	14.84	5.0	20	0	74.2	40-125	0			
Diethyl phthalate	12.26	20	20	0	61.3	40-120	0			J
Dimethyl phthalate	11.72	20	20	0	58.6	25-125	0			J
Fluoranthene	11.6	5.0	20	0	58	55-115	0			
Fluorene	10.56	5.0	20	0	52.8	50-110	0			
Indeno(1,2,3-cd)pyrene	15.89	5.0	20	0	79.4	45-125	0			
Naphthalene	11.92	5.0	20	0	59.6	40-100	0			
N-Nitrosodi-n-propylamine	11.29	5.0	20	0	56.4	35-130	0			
Pentachlorophenol	12.17	20	20	0	60.8	40-115	0			J
Phenanthrene	11.9	5.0	20	0	59.5	50-115	0			
Phenol	4.28	5.0	20	0	21.4	12-43	0			J
Pyrene	17.25	5.0	20	0	86.2	50-130	0			
Surr: 2,4,6-Tribromophenol										
	30.95	0	50	0	61.9	38-115	0			
Surr: 2-Fluorobiphenyl										
	31.6	0	50	0	63.2	32-100	0			
Surr: 2-Fluorophenol										
	20	0	50	0	40	22-59	0			
Surr: 4-Terphenyl-d14										
	45.84	0	50	0	91.7	23-112	0			
Surr: Nitrobenzene-d5										
	26.96	0	50	0	53.9	31-93	0			
Surr: Phenol-d6										
	10.3	0	50	0	20.6	13-36	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MS				Sample ID: <b>13041046-07A MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 08:53 AM</b>	
Client ID:				Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2299568</b>		Prep Date: <b>4/29/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chlorophenol	117.9	50	200	0	59	25-85	0			
4-Chloro-3-methylphenol	101.6	50	200	0	50.8	19-103	0			
4-Nitrophenol	58.4	200	200	0	29.2	1-58	0			J
Pentachlorophenol	124.8	200	200	0	62.4	9-103	0			J
Phenol	42.3	50	200	0	21.2	12-43	0			J
<i>Surr: 2,4,6-Tribromophenol</i>	<i>323.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>64.7</i>	<i>32-115</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>197.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>39.5</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>100.9</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>20.2</i>	<i>13-36</i>	<i>0</i>			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MS Sample ID: <b>13041046-07A MS</b>				Units: <b>µg/L</b>			Analysis Date: <b>4/30/2013 08:53 AM</b>			
Client ID:		Run ID: <b>SVMS7_130430A</b>		SeqNo: <b>2299615</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	136.3	50	200	0	68.2	50-110	0			
2,4,6-Trichlorophenol	132.5	50	200	0	66.2	50-115	0			
2,4-Dichlorophenol	103.4	100	200	0	51.7	50-105	0			
2,4-Dimethylphenol	95.5	50	200	0	47.8	30-110	0			
2,4-Dinitrophenol	118	200	200	0	59	15-140	0			J
2,4-Dinitrotoluene	122	50	200	0	61	50-120	0			
2,6-Dinitrotoluene	123	50	200	0	61.5	50-115	0			
2-Chloronaphthalene	134.2	50	200	0	67.1	50-105	0			
2-Chlorophenol	117.9	50	200	0	59	35-105	0			
2-Methylnaphthalene	108.4	50	200	0	54.2	45-105	0			
2-Nitrophenol	107.8	50	200	0	53.9	40-115	0			
4,6-Dinitro-2-methylphenol	130.2	200	200	0	65.1	40-130	0			J
4-Bromophenyl phenyl ether	139	50	200	0	69.5	50-115	0			
4-Chloro-3-methylphenol	101.6	50	200	0	50.8	45-110	0			
4-Chloroaniline	115.6	200	200	0	57.8	15-110	0			J
4-Chlorophenyl phenyl ether	111.1	50	200	0	55.6	50-110	0			
4-Methylphenol	85.3	50	200	0	42.6	30-110	0			
4-Nitrophenol	58.4	200	200	0	29.2	1-58	0			J
Acenaphthene	112.2	50	200	0	56.1	45-110	0			
Acenaphthylene	115.8	50	200	0	57.9	50-105	0			
Acetophenone	117.2	100	200	0	58.6	80-120	0			S
Anthracene	115.5	50	200	0	57.8	55-110	0			
Benzo(a)anthracene	146.5	50	200	0	73.2	55-110	0			
Benzo(a)pyrene	151.7	50	200	0	75.8	55-110	0			
Benzo(b)fluoranthene	155.5	50	200	0	77.8	45-120	0			
Benzo(g,h,i)perylene	148.5	50	200	0	74.2	40-125	0			
Benzo(k)fluoranthene	135.4	50	200	0	67.7	45-125	0			
Bis(2-chloroethoxy)methane	111.7	50	200	0	55.8	45-105	0			
Bis(2-chloroethyl)ether	131.3	50	200	0	65.6	35-110	0			
Bis(2-chloroisopropyl)ether	123.9	50	200	0	62	25-130	0			
Bis(2-ethylhexyl)phthalate	148	50	200	0	74	40-125	0			
Butyl benzyl phthalate	148.2	50	200	0	74.1	45-115	0			
Carbazole	117.8	100	200	0	58.9	50-130	0			
Chrysene	135.8	50	200	0	67.9	55-110	0			
Dibenzo(a,h)anthracene	145.8	50	200	0	72.9	40-125	0			
Diethyl phthalate	128.2	200	200	1.3	63.4	40-120	0			J
Dimethyl phthalate	123.1	200	200	0	61.6	25-125	0			J
Di-n-butyl phthalate	121.1	50	200	1.84	59.6	55-115	0			
Di-n-octyl phthalate	172.9	50	200	0	86.4	35-135	0			
Fluoranthene	116.4	50	200	0	58.2	55-115	0			
Fluorene	109.3	50	200	0	54.6	50-110	0			
Hexachlorobenzene	137.1	50	200	0	68.6	50-110	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>				
Hexachlorobutadiene	122.1	50	200	0	61	25-105	0	
Hexachlorocyclopentadiene	111.1	200	200	0	55.6	25-105	0	J
Hexachloroethane	131.9	50	200	0	66	30-95	0	
Indeno(1,2,3-cd)pyrene	156.6	50	200	0	78.3	45-125	0	
Isophorone	117.1	50	200	0	58.6	50-110	0	
Naphthalene	122	50	200	0	61	40-100	0	
Nitrobenzene	113.6	50	200	0	56.8	45-110	0	
N-Nitrosodi-n-propylamine	113.6	50	200	0	56.8	35-130	0	
N-Nitrosodiphenylamine	126.9	50	200	0	63.4	50-110	0	
Pentachlorophenol	124.8	200	200	0	62.4	40-115	0	J
Phenanthrene	123.7	50	200	0	61.8	50-115	0	
Phenol	42.3	50	200	0	21.2	12-43	0	J
Pyrene	175	50	200	0	87.5	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>323.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>64.7</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>319.2</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>63.8</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>197.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>39.5</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>471.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>94.2</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>270.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>54.1</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>100.9</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>20.2</i>	<i>13-36</i>	<i>0</i>	

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MS				Sample ID: <b>13041046-07A MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 08:53 AM</b>	
Client ID:				Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2300236</b>		Prep Date: <b>4/29/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	136.3	50	200	0	68.2	50-110	0			
2,4,6-Trichlorophenol	132.5	50	200	0	66.2	50-115	0			
2,4-Dichlorophenol	103.4	100	200	0	51.7	50-105	0			
2,4-Dimethylphenol	95.5	50	200	0	47.8	30-110	0			
2,4-Dinitrophenol	118	50	200	0	59	15-140	0			
2,4-Dinitrotoluene	122	50	200	0	61	50-120	0			
2,6-Dinitrotoluene	123	50	200	0	61.5	50-115	0			
2-Chloronaphthalene	134.2	50	200	0	67.1	50-105	0			
2-Chlorophenol	117.9	50	200	0	59	35-105	0			
2-Methylnaphthalene	108.4	50	200	0	54.2	45-105	0			
2-Methylphenol	95.6	50	200	0	47.8	40-110	0			
2-Nitroaniline	120.2	200	200	0	60.1	50-115	0			J
2-Nitrophenol	107.8	50	200	0	53.9	40-115	0			
3-Nitroaniline	123.7	200	200	0	61.8	20-125	0			J
4,6-Dinitro-2-methylphenol	130.2	200	200	0	65.1	40-130	0			J
4-Bromophenyl phenyl ether	139	50	200	0	69.5	50-115	0			
4-Chloro-3-methylphenol	101.6	50	200	0	50.8	45-110	0			
4-Chloroaniline	115.6	200	200	0	57.8	15-110	0			J
4-Chlorophenyl phenyl ether	111.1	50	200	0	55.6	50-110	0			
4-Methylphenol	85.3	50	200	0	42.6	30-110	0			
4-Nitroaniline	101.3	200	200	0	50.6	35-150	0			J
4-Nitrophenol	58.4	200	200	0	29.2	1-58	0			J
Acenaphthene	112.2	50	200	0	56.1	45-110	0			
Acenaphthylene	115.8	50	200	0	57.9	50-105	0			
Anthracene	115.5	50	200	0	57.8	55-110	0			
Benzo(a)anthracene	146.5	50	200	0	73.2	55-110	0			
Benzo(a)pyrene	151.7	50	200	0	75.8	55-110	0			
Benzo(b)fluoranthene	155.5	50	200	0	77.8	45-120	0			
Benzo(g,h,i)perylene	148.5	50	200	0	74.2	40-125	0			
Benzo(k)fluoranthene	135.4	50	200	0	67.7	45-125	0			
Bis(2-chloroethoxy)methane	111.7	50	200	0	55.8	45-105	0			
Bis(2-chloroethyl)ether	131.3	50	200	0	65.6	35-110	0			
Bis(2-chloroisopropyl)ether	123.9	50	200	0	62	25-130	0			
Bis(2-ethylhexyl)phthalate	148	50	200	0	74	40-125	0			
Butyl benzyl phthalate	148.2	50	200	0	74.1	45-115	0			
Carbazole	117.8	100	200	0	58.9	50-150	0			
Chrysene	135.8	50	200	0	67.9	55-110	0			
Dibenzo(a,h)anthracene	145.8	50	200	0	72.9	40-125	0			
Dibenzofuran	128.9	50	200	0	64.4	55-105	0			
Diethyl phthalate	128.2	200	200	1.3	63.4	40-120	0			J
Dimethyl phthalate	123.1	200	200	0	61.6	25-125	0			J
Di-n-butyl phthalate	121.1	50	200	1.84	59.6	55-115	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>				
Di-n-octyl phthalate	172.9	50	200	0	86.4	35-135	0	
Fluoranthene	116.4	50	200	0	58.2	55-115	0	
Fluorene	109.3	50	200	0	54.6	50-110	0	
Hexachlorobenzene	137.1	50	200	0	68.6	50-110	0	
Hexachlorobutadiene	122.1	50	200	0	61	25-105	0	
Hexachlorocyclopentadiene	111.1	200	200	0	55.6	25-105	0	J
Hexachloroethane	131.9	50	200	0	66	30-95	0	
Indeno(1,2,3-cd)pyrene	156.6	50	200	0	78.3	45-125	0	
Isophorone	117.1	50	200	0	58.6	50-110	0	
Naphthalene	122	50	200	0	61	40-100	0	
Nitrobenzene	113.6	50	200	0	56.8	45-110	0	
N-Nitrosodi-n-propylamine	113.6	50	200	0	56.8	35-130	0	
N-Nitrosodiphenylamine	126.9	50	200	0	63.4	50-110	0	
Pentachlorophenol	124.8	200	200	0	62.4	40-115	0	J
Phenanthrene	123.7	50	200	0	61.8	50-115	0	
Phenol	42.3	50	200	0	21.2	12-43	0	J
Pyrene	175	50	200	0	87.5	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	323.4	0	500	0	64.7	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	319.2	0	500	0	63.8	32-100	0	
<i>Surr: 2-Fluorophenol</i>	197.4	0	500	0	39.5	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	471.1	0	500	0	94.2	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	270.5	0	500	0	54.1	31-93	0	
<i>Surr: Phenol-d6</i>	100.9	0	500	0	20.2	13-36	0	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MS				Sample ID: <b>13041046-07A MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 08:53 AM</b>	
Client ID:				Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2300304</b>		Prep Date: <b>4/29/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	122	50	200	0	61	50-120	0			
2-Chlorophenol	117.9	50	200	0	59	35-105	0			
4-Chloro-3-methylphenol	101.6	50	200	0	50.8	45-110	0			
4-Nitrophenol	58.4	200	200	0	29.2	58-58	0			JS
Acenaphthene	112.2	50	200	0	56.1	45-110	0			
Acenaphthylene	115.8	50	200	0	57.9	50-105	0			
Anthracene	115.5	50	200	0	57.8	55-110	0			
Benzo(a)anthracene	146.5	50	200	0	73.2	55-110	0			
Benzo(a)pyrene	151.7	50	200	0	75.8	55-110	0			
Benzo(b)fluoranthene	155.5	50	200	0	77.8	45-120	0			
Benzo(g,h,i)perylene	148.5	50	200	0	74.2	40-125	0			
Benzo(k)fluoranthene	135.4	50	200	0	67.7	45-125	0			
Butyl benzyl phthalate	148.2	50	200	0	74.1	45-115	0			
Chrysene	135.8	50	200	0	67.9	55-110	0			
Dibenzo(a,h)anthracene	145.8	50	200	0	72.9	40-125	0			
Diethyl phthalate	128.2	200	200	1.3	63.4	40-120	0			J
Dimethyl phthalate	123.1	200	200	0	61.6	25-125	0			J
Fluoranthene	116.4	50	200	0	58.2	55-115	0			
Fluorene	109.3	50	200	0	54.6	50-110	0			
Indeno(1,2,3-cd)pyrene	156.6	50	200	0	78.3	45-125	0			
Naphthalene	122	50	200	0	61	40-110	0			
N-Nitrosodi-n-propylamine	113.6	50	200	0	56.8	35-130	0			
Pentachlorophenol	124.8	200	200	0	62.4	40-115	0			J
Phenanthrene	123.7	50	200	0	61.8	50-115	0			
Phenol	42.3	50	200	0	21.2	12-43	0			J
Pyrene	175	50	200	0	87.5	50-130	0			
Surr: 2,4,6-Tribromophenol										
	323.4	0	500	0	64.7	38-115	0			
Surr: 2-Fluorobiphenyl										
	319.2	0	500	0	63.8	32-100	0			
Surr: 2-Fluorophenol										
	197.4	0	500	0	39.5	22-59	0			
Surr: 4-Terphenyl-d14										
	471.1	0	500	0	94.2	23-112	0			
Surr: Nitrobenzene-d5										
	270.5	0	500	0	54.1	31-93	0			
Surr: Phenol-d6										
	100.9	0	500	0	20.2	13-36	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

<b>MSD</b>		Sample ID: <b>13041046-07A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 09:16 AM</b>		
Client ID:		Run ID: <b>SVMS7_130430A</b>				SeqNo: <b>2299569</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chlorophenol	108.5	50	200	0	54.2	25-85	117.9	8.3	40	
4-Chloro-3-methylphenol	96.4	50	200	0	48.2	19-103	101.6	5.25	42	
4-Nitrophenol	61.7	200	200	0	30.8	1-58	58.4	0	50	J
Pentachlorophenol	115.2	200	200	0	57.6	9-103	124.8	0	50	J
Phenol	47.1	50	200	0	23.6	12-43	42.3	0	42	J
<i>Surr: 2,4,6-Tribromophenol</i>	293.2	0	500	0	58.6	32-115	323.4	9.8	40	
<i>Surr: 2-Fluorophenol</i>	206.8	0	500	0	41.4	22-59	197.4	4.65	40	
<i>Surr: Phenol-d6</i>	112.1	0	500	0	22.4	13-36	100.9	10.5	40	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MSD				Sample ID: <b>13041046-07A MSD</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 09:16 AM</b>	
Client ID:				Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2299616</b>		Prep Date: <b>4/29/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	119.2	50	200	0	59.6	50-110	136.3	13.4	30	
2,4,6-Trichlorophenol	116	50	200	0	58	50-115	132.5	13.3	30	
2,4-Dichlorophenol	97.1	100	200	0	48.6	50-105	103.4	0	30	JS
2,4-Dimethylphenol	93.4	50	200	0	46.7	30-110	95.5	2.22	30	
2,4-Dinitrophenol	104.6	200	200	0	52.3	15-140	118	0	30	J
2,4-Dinitrotoluene	108.5	50	200	0	54.2	50-120	122	11.7	30	
2,6-Dinitrotoluene	107	50	200	0	53.5	50-115	123	13.9	30	
2-Chloronaphthalene	117.9	50	200	0	59	50-105	134.2	12.9	30	
2-Chlorophenol	108.5	50	200	0	54.2	35-105	117.9	8.3	30	
2-Methylnaphthalene	94.9	50	200	0	47.4	45-105	108.4	13.3	30	
2-Nitrophenol	98.2	50	200	0	49.1	40-115	107.8	9.32	30	
4,6-Dinitro-2-methylphenol	115.7	200	200	0	57.8	40-130	130.2	0	30	J
4-Bromophenyl phenyl ether	125.6	50	200	0	62.8	50-115	139	10.1	30	
4-Chloro-3-methylphenol	96.4	50	200	0	48.2	45-110	101.6	5.25	30	
4-Chloroaniline	104.9	200	200	0	52.4	15-110	115.6	0	30	J
4-Chlorophenyl phenyl ether	101.1	50	200	0	50.6	50-110	111.1	9.43	30	
4-Methylphenol	89.2	50	200	0	44.6	30-110	85.3	4.47	30	
4-Nitrophenol	61.7	200	200	0	30.8	1-58	58.4	0	30	J
Acenaphthene	99.6	50	200	0	49.8	45-110	112.2	11.9	30	
Acenaphthylene	101.6	50	200	0	50.8	50-105	115.8	13.1	30	
Acetophenone	107.3	100	200	0	53.6	80-120	117.2	8.82	30	S
Anthracene	106.3	50	200	0	53.2	55-110	115.5	8.3	30	S
Benzo(a)anthracene	134.6	50	200	0	67.3	55-110	146.5	8.47	30	
Benzo(a)pyrene	139.5	50	200	0	69.8	55-110	151.7	8.38	30	
Benzo(b)fluoranthene	146.8	50	200	0	73.4	45-120	155.5	5.76	30	
Benzo(g,h,i)perylene	139.4	50	200	0	69.7	40-125	148.5	6.32	30	
Benzo(k)fluoranthene	121.3	50	200	0	60.6	45-125	135.4	11	30	
Bis(2-chloroethoxy)methane	102	50	200	0	51	45-105	111.7	9.08	30	
Bis(2-chloroethyl)ether	117.4	50	200	0	58.7	35-110	131.3	11.2	30	
Bis(2-chloroisopropyl)ether	113.5	50	200	0	56.8	25-130	123.9	8.76	30	
Bis(2-ethylhexyl)phthalate	135.4	50	200	0	67.7	40-125	148	8.89	30	
Butyl benzyl phthalate	134.7	50	200	0	67.4	45-115	148.2	9.54	30	
Carbazole	110.7	100	200	0	55.4	50-130	117.8	6.21	30	
Chrysene	125.4	50	200	0	62.7	55-110	135.8	7.96	30	
Dibenzo(a,h)anthracene	136	50	200	0	68	40-125	145.8	6.96	30	
Diethyl phthalate	109.8	200	200	1.3	54.2	40-120	128.2	0	30	J
Dimethyl phthalate	107.6	200	200	0	53.8	25-125	123.1	0	30	J
Di-n-butyl phthalate	111.1	50	200	1.84	54.6	55-115	121.1	8.61	30	S
Di-n-octyl phthalate	158.6	50	200	0	79.3	35-135	172.9	8.63	30	
Fluoranthene	106.6	50	200	0	53.3	55-115	116.4	8.79	30	S
Fluorene	101.2	50	200	0	50.6	50-110	109.3	7.7	30	
Hexachlorobenzene	124.6	50	200	0	62.3	50-110	137.1	9.55	30	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>					
Hexachlorobutadiene	109	50	200	0	54.5	25-105	122.1	11.3	30
Hexachlorocyclopentadiene	101.2	200	200	0	50.6	25-105	111.1	0	30 J
Hexachloroethane	113.6	50	200	0	56.8	30-95	131.9	14.9	30
Indeno(1,2,3-cd)pyrene	146	50	200	0	73	45-125	156.6	7.01	30
Isophorone	105.7	50	200	0	52.8	50-110	117.1	10.2	30
Naphthalene	106.5	50	200	0	53.2	40-100	122	13.6	30
Nitrobenzene	104	50	200	0	52	45-110	113.6	8.82	30
N-Nitrosodi-n-propylamine	105.8	50	200	0	52.9	35-130	113.6	7.11	30
N-Nitrosodiphenylamine	122.9	50	200	0	61.4	50-110	126.9	3.2	30
Pentachlorophenol	115.2	200	200	0	57.6	40-115	124.8	0	30 J
Phenanthrene	111.9	50	200	0	56	50-115	123.7	10	30
Phenol	47.1	50	200	0	23.6	12-43	42.3	0	30 J
Pyrene	162.2	50	200	0	81.1	50-130	175	7.59	30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>293.2</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>58.6</i>	<i>38-115</i>	<i>323.4</i>	<i>9.8</i>	<i>40</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>279</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>55.8</i>	<i>32-100</i>	<i>319.2</i>	<i>13.4</i>	<i>40</i>
<i>Surr: 2-Fluorophenol</i>	<i>206.8</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>41.4</i>	<i>22-59</i>	<i>197.4</i>	<i>4.65</i>	<i>40</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>439.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>87.9</i>	<i>23-112</i>	<i>471.1</i>	<i>6.96</i>	<i>40</i>
<i>Surr: Nitrobenzene-d5</i>	<i>240.7</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>48.1</i>	<i>31-93</i>	<i>270.5</i>	<i>11.7</i>	<i>40</i>
<i>Surr: Phenol-d6</i>	<i>112.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>22.4</i>	<i>13-36</i>	<i>100.9</i>	<i>10.5</i>	<i>40</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MSD				Sample ID: <b>13041046-07A MSD</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 09:16 AM</b>	
Client ID:				Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2300237</b>		Prep Date: <b>4/29/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	119.2	50	200	0	59.6	50-110	136.3	13.4	30	
2,4,6-Trichlorophenol	116	50	200	0	58	50-115	132.5	13.3	30	
2,4-Dichlorophenol	97.1	100	200	0	48.6	50-105	103.4	0	30	JS
2,4-Dimethylphenol	93.4	50	200	0	46.7	30-110	95.5	2.22	30	
2,4-Dinitrophenol	104.6	50	200	0	52.3	15-140	118	12	30	
2,4-Dinitrotoluene	108.5	50	200	0	54.2	50-120	122	11.7	30	
2,6-Dinitrotoluene	107	50	200	0	53.5	50-115	123	13.9	30	
2-Chloronaphthalene	117.9	50	200	0	59	50-105	134.2	12.9	30	
2-Chlorophenol	108.5	50	200	0	54.2	35-105	117.9	8.3	30	
2-Methylnaphthalene	94.9	50	200	0	47.4	45-105	108.4	13.3	30	
2-Methylphenol	95.1	50	200	0	47.6	40-110	95.6	0.524	30	
2-Nitroaniline	107.4	200	200	0	53.7	50-115	120.2	0	30	J
2-Nitrophenol	98.2	50	200	0	49.1	40-115	107.8	9.32	30	
3-Nitroaniline	112.7	200	200	0	56.4	20-125	123.7	0	30	J
4,6-Dinitro-2-methylphenol	115.7	200	200	0	57.8	40-130	130.2	0	30	J
4-Bromophenyl phenyl ether	125.6	50	200	0	62.8	50-115	139	10.1	30	
4-Chloro-3-methylphenol	96.4	50	200	0	48.2	45-110	101.6	5.25	30	
4-Chloroaniline	104.9	200	200	0	52.4	15-110	115.6	0	30	J
4-Chlorophenyl phenyl ether	101.1	50	200	0	50.6	50-110	111.1	9.43	30	
4-Methylphenol	89.2	50	200	0	44.6	30-110	85.3	4.47	30	
4-Nitroaniline	93.6	200	200	0	46.8	35-150	101.3	0	30	J
4-Nitrophenol	61.7	200	200	0	30.8	1-58	58.4	0	0	J
Acenaphthene	99.6	50	200	0	49.8	45-110	112.2	11.9	30	
Acenaphthylene	101.6	50	200	0	50.8	50-105	115.8	13.1	30	
Anthracene	106.3	50	200	0	53.2	55-110	115.5	8.3	30	S
Benzo(a)anthracene	134.6	50	200	0	67.3	55-110	146.5	8.47	30	
Benzo(a)pyrene	139.5	50	200	0	69.8	55-110	151.7	8.38	30	
Benzo(b)fluoranthene	146.8	50	200	0	73.4	45-120	155.5	5.76	30	
Benzo(g,h,i)perylene	139.4	50	200	0	69.7	40-125	148.5	6.32	30	
Benzo(k)fluoranthene	121.3	50	200	0	60.6	45-125	135.4	11	30	
Bis(2-chloroethoxy)methane	102	50	200	0	51	45-105	111.7	9.08	30	
Bis(2-chloroethyl)ether	117.4	50	200	0	58.7	35-110	131.3	11.2	30	
Bis(2-chloroisopropyl)ether	113.5	50	200	0	56.8	25-130	123.9	8.76	30	
Bis(2-ethylhexyl)phthalate	135.4	50	200	0	67.7	40-125	148	8.89	30	
Butyl benzyl phthalate	134.7	50	200	0	67.4	45-115	148.2	9.54	30	
Carbazole	110.7	100	200	0	55.4	50-150	117.8	6.21	30	
Chrysene	125.4	50	200	0	62.7	55-110	135.8	7.96	30	
Dibenzo(a,h)anthracene	136	50	200	0	68	40-125	145.8	6.96	30	
Dibenzofuran	113.2	50	200	0	56.6	55-105	128.9	13	30	
Diethyl phthalate	109.8	200	200	1.3	54.2	40-120	128.2	0	30	J
Dimethyl phthalate	107.6	200	200	0	53.8	25-125	123.1	0	30	J
Di-n-butyl phthalate	111.1	50	200	1.84	54.6	55-115	121.1	8.61	30	S

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48000</b>		Instrument ID <b>SVMS7</b>		Method: <b>SW8270</b>						
Di-n-octyl phthalate	158.6	50	200	0	79.3	35-135	172.9	8.63	30	
Fluoranthene	106.6	50	200	0	53.3	55-115	116.4	8.79	30	S
Fluorene	101.2	50	200	0	50.6	50-110	109.3	7.7	30	
Hexachlorobenzene	124.6	50	200	0	62.3	50-110	137.1	9.55	30	
Hexachlorobutadiene	109	50	200	0	54.5	25-105	122.1	11.3	30	
Hexachlorocyclopentadiene	101.2	200	200	0	50.6	25-105	111.1	0	30	J
Hexachloroethane	113.6	50	200	0	56.8	30-95	131.9	14.9	30	
Indeno(1,2,3-cd)pyrene	146	50	200	0	73	45-125	156.6	7.01	30	
Isophorone	105.7	50	200	0	52.8	50-110	117.1	10.2	30	
Naphthalene	106.5	50	200	0	53.2	40-100	122	13.6	30	
Nitrobenzene	104	50	200	0	52	45-110	113.6	8.82	30	
N-Nitrosodi-n-propylamine	105.8	50	200	0	52.9	35-130	113.6	7.11	30	
N-Nitrosodiphenylamine	122.9	50	200	0	61.4	50-110	126.9	3.2	30	
Pentachlorophenol	115.2	200	200	0	57.6	40-115	124.8	0	30	J
Phenanthrene	111.9	50	200	0	56	50-115	123.7	10	30	
Phenol	47.1	50	200	0	23.6	12-43	42.3	0	30	J
Pyrene	162.2	50	200	0	81.1	50-130	175	7.59	30	
<i>Surr: 2,4,6-Tribromophenol</i>	293.2	0	500	0	58.6	38-115	323.4	9.8	40	
<i>Surr: 2-Fluorobiphenyl</i>	279	0	500	0	55.8	32-100	319.2	13.4	40	
<i>Surr: 2-Fluorophenol</i>	206.8	0	500	0	41.4	22-59	197.4	4.65	40	
<i>Surr: 4-Terphenyl-d14</i>	439.4	0	500	0	87.9	23-112	471.1	6.96	40	
<i>Surr: Nitrobenzene-d5</i>	240.7	0	500	0	48.1	31-93	270.5	11.7	40	
<i>Surr: Phenol-d6</i>	112.1	0	500	0	22.4	13-36	100.9	10.5	40	

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

# QC BATCH REPORT

Batch ID: **48000**      Instrument ID **SVMS7**      Method: **SW8270**

MSD				Sample ID: <b>13041046-07A MSD</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 09:16 AM</b>	
Client ID:				Run ID: <b>SVMS7_130430A</b>			SeqNo: <b>2300305</b>		Prep Date: <b>4/29/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	108.5	50	200	0	54.2	50-120	122	11.7	35	
2-Chlorophenol	108.5	50	200	0	54.2	35-105	117.9	8.3	32	
4-Chloro-3-methylphenol	96.4	50	200	0	48.2	45-110	101.6	5.25	31	
4-Nitrophenol	61.7	200	200	0	30.8	1-58	58.4	0	43	J
Acenaphthene	99.6	50	200	0	49.8	45-110	112.2	11.9	44	
Acenaphthylene	101.6	50	200	0	50.8	50-105	115.8	13.1	26	
Anthracene	106.3	50	200	0	53.2	55-110	115.5	8.3	21	S
Benzo(a)anthracene	134.6	50	200	0	67.3	55-110	146.5	8.47	30	
Benzo(a)pyrene	139.5	50	200	0	69.8	55-110	151.7	8.38	32	
Benzo(b)fluoranthene	146.8	50	200	0	73.4	45-120	155.5	5.76	34	
Benzo(g,h,i)perylene	139.4	50	200	0	69.7	40-125	148.5	6.32	27	
Benzo(k)fluoranthene	121.3	50	200	0	60.6	45-125	135.4	11	27	
Butyl benzyl phthalate	134.7	50	200	0	67.4	45-115	148.2	9.54	30	
Chrysene	125.4	50	200	0	62.7	55-110	135.8	7.96	33	
Dibenzo(a,h)anthracene	136	50	200	0	68	40-125	145.8	6.96	35	
Diethyl phthalate	109.8	200	200	1.3	54.2	40-120	128.2	0	30	J
Dimethyl phthalate	107.6	200	200	0	53.8	25-125	123.1	0	30	J
Fluoranthene	106.6	50	200	0	53.3	55-115	116.4	8.79	29	S
Fluorene	101.2	50	200	0	50.6	50-110	109.3	7.7	25	
Indeno(1,2,3-cd)pyrene	146	50	200	0	73	45-125	156.6	7.01	34	
Naphthalene	106.5	50	200	0	53.2	40-100	122	13.6	40	
N-Nitrosodi-n-propylamine	105.8	50	200	0	52.9	35-130	113.6	7.11	36	
Pentachlorophenol	115.2	200	200	0	57.6	40-115	124.8	0	34	J
Phenanthrene	111.9	50	200	0	56	50-115	123.7	10	22	
Phenol	47.1	50	200	0	23.6	12-43	42.3	0	34	J
Pyrene	162.2	50	200	0	81.1	50-130	175	7.59	22	
Surr: 2,4,6-Tribromophenol	293.2	0	500	0	58.6	38-115	323.4	9.8	40	
Surr: 2-Fluorobiphenyl	279	0	500	0	55.8	32-100	319.2	13.4	40	
Surr: 2-Fluorophenol	206.8	0	500	0	41.4	22-59	197.4	4.65	40	
Surr: 4-Terphenyl-d14	439.4	0	500	0	87.9	23-112	471.1	6.96	40	
Surr: Nitrobenzene-d5	240.7	0	500	0	48.1	31-93	270.5	11.7	40	
Surr: Phenol-d6	112.1	0	500	0	22.4	13-36	100.9	10.5	40	

The following samples were analyzed in this batch:

13041107-01B	13041107-02B	13041107-04B
13041107-19B		

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

Client: Tetra Tech  
 Work Order: 13041107  
 Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48002** Instrument ID **SVMS5** Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>DBLKW1-48002-48002</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/5/2013 05:02 PM</b>		
Client ID:		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305533</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	0.10								
ORO (C21-C35)	U	0.10								
<i>Surr: 4-Terphenyl-d14</i>	<i>0.04441</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>88.8</i>	<i>23-112</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>DLC SW1-48002-48002</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/5/2013 05:22 PM</b>		
Client ID:		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305535</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	3.295	0.10	5	0	65.9	44-116	0			
ORO (C21-C35)	4.13	0.10	5	0	82.6	44-116	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.04182</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>83.6</i>	<i>23-112</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>13041107-01B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/5/2013 05:41 PM</b>		
Client ID: <b>LCBP-WA-001</b>		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305538</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	25.27	1.0	50	0	50.5	44-116	0			
ORO (C21-C35)	35.38	1.0	50	0	70.8	44-116	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.287</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>57.4</i>	<i>23-112</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>13041107-01B MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/5/2013 06:01 PM</b>		
Client ID: <b>LCBP-WA-001</b>		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305540</b>		Prep Date: <b>4/29/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	28.83	1.0	50	0	57.7	44-116	25.27	13.1	30	
ORO (C21-C35)	39.91	1.0	50	0	79.8	44-116	35.38	12	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.3333</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>66.7</i>	<i>23-112</i>	<i>0.287</i>	<i>14.9</i>	<i>30</i>	

The following samples were analyzed in this batch:

13041107-01B	13041107-02B	13041107-04B
13041107-19B		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48026**      Instrument ID **SVMS6**      Method: **SW8270**

MBLK		Sample ID: <b>SBLKS1-48026-48026</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/30/2013 06:00 PM</b>		
Client ID:		Run ID: <b>SVMS6_130430A</b>				SeqNo: <b>2302081</b>		Prep Date: <b>4/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	330								
2,4,5-Trichlorophenol	U	160								
2,4,6-Trichlorophenol	U	160								
2,4-Dichlorophenol	U	160								
2,4-Dimethylphenol	U	330								
2,4-Dinitrophenol	U	660								
2,4-Dinitrotoluene	U	160								
2,6-Dinitrotoluene	U	160								
2-Chloronaphthalene	U	80								
2-Chlorophenol	U	160								
2-Methylnaphthalene	U	80								
2-Methylphenol	U	160								
2-Nitroaniline	U	660								
2-Nitrophenol	U	160								
3,3'-Dichlorobenzidine	U	660								
3-Nitroaniline	U	660								
4,6-Dinitro-2-methylphenol	U	330								
4-Bromophenyl phenyl ether	U	160								
4-Chloro-3-methylphenol	U	160								
4-Chloroaniline	U	660								
4-Chlorophenyl phenyl ether	U	160								
4-Methylphenol	U	160								
4-Nitroaniline	U	660								
4-Nitrophenol	U	660								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Acetophenone	U	330								
Anthracene	U	30								
Atrazine	U	330								
Benzaldehyde	U	330								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Bis(2-chloroethoxy)methane	U	160								
Bis(2-chloroethyl)ether	U	160								
Bis(2-chloroisopropyl)ether	U	160								
Bis(2-ethylhexyl)phthalate	U	330								
Butyl benzyl phthalate	U	160								
Caprolactam	U	330								
Carbazole	U	160								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48026</b>		Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>				
Chrysene	U	30						
Dibenzo(a,h)anthracene	U	30						
Dibenzofuran	U	160						
Diethyl phthalate	U	330						
Dimethyl phthalate	U	330						
Di-n-butyl phthalate	U	330						
Di-n-octyl phthalate	U	160						
Fluoranthene	U	30						
Fluorene	U	30						
Hexachlorobenzene	U	160						
Hexachlorobutadiene	U	160						
Hexachlorocyclopentadiene	U	330						
Hexachloroethane	U	160						
Indeno(1,2,3-cd)pyrene	U	30						
Isophorone	U	160						
Naphthalene	U	30						
Nitrobenzene	U	160						
N-Nitrosodi-n-propylamine	U	160						
N-Nitrosodiphenylamine	U	160						
Pentachlorophenol	U	330						
Phenanthrene	U	30						
Phenol	U	160						
Pyrene	U	30						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>830.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>49.8</i>	<i>34-140</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1369</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>82.1</i>	<i>12-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1598</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>95.9</i>	<i>33-117</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2169</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>130</i>	<i>25-137</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1298</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>77.9</i>	<i>37-107</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>1450</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>87</i>	<i>40-106</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48026**      Instrument ID **SVMS6**      Method: **SW8270**

LCS		Sample ID: <b>SLCSS1-48026-48026</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/30/2013 06:21 PM</b>		
Client ID:		Run ID: <b>SVMS6_130430A</b>				SeqNo: <b>2302082</b>		Prep Date: <b>4/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	558.7	160	666.7	0	83.8	50-110	0			
2,4,6-Trichlorophenol	539.7	160	666.7	0	80.9	45-110	0			
2,4-Dichlorophenol	543.3	160	666.7	0	81.5	45-110	0			
2,4-Dimethylphenol	445	330	666.7	0	66.7	30-105	0			
2,4-Dinitrophenol	386.7	660	666.7	0	58	15-130	0			J
2,4-Dinitrotoluene	587.3	160	666.7	0	88.1	50-115	0			
2,6-Dinitrotoluene	521.3	160	666.7	0	78.2	50-110	0			
2-Chloronaphthalene	567.7	80	666.7	0	85.1	45-105	0			
2-Chlorophenol	622.7	160	666.7	0	93.4	45-105	0			
2-Methylnaphthalene	538	80	666.7	0	80.7	45-105	0			
2-Methylphenol	586.7	160	666.7	0	88	40-105	0			
2-Nitroaniline	524.7	660	666.7	0	78.7	45-120	0			J
2-Nitrophenol	514.7	160	666.7	0	77.2	40-110	0			
3-Nitroaniline	319.3	660	666.7	0	47.9	25-150	0			J
4-Bromophenyl phenyl ether	543.7	160	666.7	0	81.5	45-115	0			
4-Chloro-3-methylphenol	533	160	666.7	0	79.9	45-115	0			
4-Chloroaniline	387.3	660	666.7	0	58.1	15-110	0			J
4-Chlorophenyl phenyl ether	522.3	160	666.7	0	78.3	45-110	0			
4-Methylphenol	589.3	160	666.7	0	88.4	40-105	0			
4-Nitroaniline	254.7	660	666.7	0	38.2	35-150	0			J
4-Nitrophenol	417	660	666.7	0	62.5	15-140	0			J
Acenaphthene	552	30	666.7	0	82.8	45-110	0			
Acenaphthylene	575.3	30	666.7	0	86.3	45-105	0			
Anthracene	589.3	30	666.7	0	88.4	55-105	0			
Benzo(a)anthracene	588	30	666.7	0	88.2	50-110	0			
Benzo(a)pyrene	587	30	666.7	0	88	50-110	0			
Benzo(b)fluoranthene	621.7	30	666.7	0	93.2	45-115	0			
Benzo(g,h,i)perylene	448	30	666.7	0	67.2	40-125	0			
Benzo(k)fluoranthene	655.7	30	666.7	0	98.3	45-115	0			
Bis(2-chloroethoxy)methane	556.7	160	666.7	0	83.5	45-110	0			
Bis(2-chloroethyl)ether	686.3	160	666.7	0	103	40-105	0			
Bis(2-chloroisopropyl)ether	555	160	666.7	0	83.2	20-115	0			
Bis(2-ethylhexyl)phthalate	700.3	330	666.7	0	105	45-125	0			
Butyl benzyl phthalate	662	160	666.7	0	99.3	50-125	0			
Carbazole	564.3	160	666.7	0	84.6	50-150	0			
Chrysene	655	30	666.7	0	98.2	55-110	0			
Dibenzo(a,h)anthracene	456	30	666.7	0	68.4	40-125	0			
Dibenzofuran	546.3	160	666.7	0	81.9	50-105	0			
Diethyl phthalate	529.7	330	666.7	0	79.4	50-115	0			
Dimethyl phthalate	539.7	330	666.7	0	80.9	50-110	0			
Di-n-butyl phthalate	561.7	330	666.7	0	84.2	55-110	0			
Di-n-octyl phthalate	681.3	160	666.7	0	102	40-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48026</b>		Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>			
Fluoranthene	553	30	666.7	0	82.9	55-115	0
Fluorene	547	30	666.7	0	82	50-110	0
Hexachlorobenzene	487.3	160	666.7	0	73.1	45-120	0
Hexachlorobutadiene	505.3	160	666.7	0	75.8	40-115	0
Hexachlorocyclopentadiene	508	330	666.7	0	76.2	40-115	0
Hexachloroethane	598	160	666.7	0	89.7	35-110	0
Indeno(1,2,3-cd)pyrene	446.7	30	666.7	0	67	40-120	0
Isophorone	543.3	160	666.7	0	81.5	45-110	0
Naphthalene	526	30	666.7	0	78.9	40-105	0
Nitrobenzene	576.3	160	666.7	0	86.4	40-115	0
N-Nitrosodi-n-propylamine	591.7	160	666.7	0	88.7	40-115	0
N-Nitrosodiphenylamine	603	160	666.7	0	90.4	50-115	0
Pentachlorophenol	436.3	330	666.7	0	65.4	25-120	0
Phenanthrene	534.7	30	666.7	0	80.2	50-110	0
Phenol	609	160	666.7	0	91.3	40-100	0
Pyrene	748.3	30	666.7	0	112	45-125	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1135</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>68.1</i>	<i>34-140</i>	<i>0</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>1427</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>85.6</i>	<i>12-100</i>	<i>0</i>
<i>Surr: 2-Fluorophenol</i>	<i>1649</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>99</i>	<i>33-117</i>	<i>0</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>2191</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>131</i>	<i>25-137</i>	<i>0</i>
<i>Surr: Nitrobenzene-d5</i>	<i>1413</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>84.8</i>	<i>37-107</i>	<i>0</i>
<i>Surr: Phenol-d6</i>	<i>1568</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>94.1</i>	<i>40-106</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48026**      Instrument ID **SVMS6**      Method: **SW8270**

MS				Sample ID: <b>13041107-15C MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/30/2013 09:11 PM</b>	
Client ID: <b>LCBP-SS-006</b>				Run ID: <b>SVMS6_130430A</b>			SeqNo: <b>2302086</b>		Prep Date: <b>4/30/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	938	310	1310	0	71.6	50-110	0			
2,4,6-Trichlorophenol	684.5	310	1310	0	52.2	45-110	0			
2,4-Dichlorophenol	931.5	310	1310	0	71.1	45-110	0			
2,4-Dimethylphenol	813.6	650	1310	0	62.1	30-105	0			
2,4-Dinitrophenol	277.1	1,300	1310	0	21.1	15-130	0			J
2,4-Dinitrotoluene	1133	310	1310	0	86.5	50-115	0			
2,6-Dinitrotoluene	970.8	310	1310	0	74.1	50-110	0			
2-Chloronaphthalene	983.9	160	1310	0	75.1	45-105	0			
2-Chlorophenol	1052	310	1310	0	80.3	45-105	0			
2-Methylnaphthalene	912.5	160	1310	0	69.6	45-105	0			
2-Methylphenol	1034	310	1310	0	78.9	40-105	0			
2-Nitroaniline	1018	1,300	1310	0	77.7	45-120	0			J
2-Nitrophenol	803.7	310	1310	0	61.3	40-110	0			
3-Nitroaniline	645.2	1,300	1310	0	49.2	25-110	0			J
4-Bromophenyl phenyl ether	1029	310	1310	0	78.5	45-115	0			
4-Chloro-3-methylphenol	1014	310	1310	0	77.4	45-115	0			
4-Chloroaniline	625.6	1,300	1310	0	47.7	15-110	0			J
4-Chlorophenyl phenyl ether	967.5	310	1310	0	73.8	45-110	0			
4-Methylphenol	1036	310	1310	0	79.1	40-105	0			
4-Nitroaniline	602	1,300	1310	0	45.9	35-150	0			J
4-Nitrophenol	650.5	1,300	1310	0	49.6	15-140	0			J
Acenaphthene	964.9	59	1310	0	73.6	45-110	0			
Acenaphthylene	1024	59	1310	0	78.2	45-105	0			
Anthracene	1093	59	1310	99.19	75.9	55-105	0			
Benzo(a)anthracene	1129	59	1310	228.3	68.7	50-110	0			
Benzo(a)pyrene	1173	59	1310	190.8	74.9	50-110	0			
Benzo(b)fluoranthene	1137	59	1310	244.4	68.1	45-115	0			
Benzo(g,h,i)perylene	1066	59	1310	117.3	72.4	40-125	0			
Benzo(k)fluoranthene	1106	59	1310	89.67	77.6	45-115	0			
Bis(2-chloroethoxy)methane	930.2	310	1310	0	71	45-110	0			
Bis(2-chloroethyl)ether	1247	310	1310	0	95.1	40-105	0			
Bis(2-chloroisopropyl)ether	999.6	310	1310	0	76.3	20-115	0			
Bis(2-ethylhexyl)phthalate	1618	650	1310	55.84	119	45-125	0			
Butyl benzyl phthalate	1442	310	1310	0	110	50-125	0			
Carbazole	1042	310	1310	51.24	75.6	50-150	0			
Chrysene	1149	59	1310	197.7	72.6	55-110	0			
Dibenzo(a,h)anthracene	1035	59	1310	52.55	75	40-125	0			
Dibenzofuran	984.5	310	1310	0	75.1	50-105	0			
Diethyl phthalate	997.6	650	1310	0	76.1	50-115	0			
Dimethyl phthalate	960.3	650	1310	0	73.3	50-110	0			
Di-n-butyl phthalate	1087	650	1310	0	82.9	55-110	0			
Di-n-octyl phthalate	1659	310	1310	106.4	119	40-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48026</b>		Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>				
Fluoranthene	999.6	59	1310	354.7	49.2	55-115	0	S
Fluorene	1023	59	1310	24.63	76.2	50-110	0	
Hexachlorobenzene	911.8	310	1310	0	69.6	45-120	0	
Hexachlorobutadiene	829.9	310	1310	0	63.3	40-115	0	
Hexachlorocyclopentadiene	461.8	650	1310	0	35.2	40-115	0	JS
Hexachloroethane	994.4	310	1310	0	75.9	35-110	0	
Indeno(1,2,3-cd)pyrene	1078	59	1310	145.8	71.1	40-120	0	
Isophorone	915.8	310	1310	0	69.9	45-110	0	
Naphthalene	884.3	59	1310	0	67.5	40-105	0	
Nitrobenzene	964.9	310	1310	0	73.6	40-115	0	
N-Nitrosodi-n-propylamine	1031	310	1310	0	78.7	40-115	0	
N-Nitrosodiphenylamine	1152	310	1310	0	87.9	50-115	0	
Pentachlorophenol	393	650	1310	0	30	25-120	0	J
Phenanthrene	1003	59	1310	274.3	55.6	50-110	0	
Phenol	1040	310	1310	0	79.3	40-100	0	
Pyrene	1459	59	1310	369.8	83.2	45-125	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1469</i>	<i>0</i>	<i>3275</i>	<i>0</i>	<i>44.9</i>	<i>34-140</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>2371</i>	<i>0</i>	<i>3275</i>	<i>0</i>	<i>72.4</i>	<i>12-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2770</i>	<i>0</i>	<i>3275</i>	<i>0</i>	<i>84.6</i>	<i>33-117</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>4021</i>	<i>0</i>	<i>3275</i>	<i>0</i>	<i>123</i>	<i>25-137</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>2333</i>	<i>0</i>	<i>3275</i>	<i>0</i>	<i>71.2</i>	<i>37-107</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>2652</i>	<i>0</i>	<i>3275</i>	<i>0</i>	<i>81</i>	<i>40-106</i>	<i>0</i>	

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48026**      Instrument ID **SVMS6**      Method: **SW8270**

MSD				Sample ID: 13041107-15C MSD			Units: µg/Kg		Analysis Date: 4/30/2013 09:31 PM		
Client ID: LCBP-SS-006			Run ID: SVMS6_130430A			SeqNo: 2302087		Prep Date: 4/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2,4,5-Trichlorophenol	1095	310	1293	0	84.7	50-110	938	15.5	30		
2,4,6-Trichlorophenol	966.8	310	1293	0	74.8	45-110	684.5	34.2	30	R	
2,4-Dichlorophenol	902.9	310	1293	0	69.8	45-110	931.5	3.12	30		
2,4-Dimethylphenol	734.2	640	1293	0	56.8	30-105	813.6	10.3	30		
2,4-Dinitrophenol	612	1,300	1293	0	47.3	15-130	277.1	0	30	J	
2,4-Dinitrotoluene	1114	310	1293	0	86.1	50-115	1133	1.75	30		
2,6-Dinitrotoluene	939.1	310	1293	0	72.6	50-110	970.8	3.32	30		
2-Chloronaphthalene	1004	160	1293	0	77.7	45-105	983.9	2.06	30		
2-Chlorophenol	949.4	310	1293	0	73.4	45-105	1052	10.3	30		
2-Methylnaphthalene	871.8	160	1293	0	67.4	45-105	912.5	4.56	30		
2-Methylphenol	881.5	310	1293	0	68.2	40-105	1034	15.9	30		
2-Nitroaniline	1007	1,300	1293	0	77.9	45-120	1018	0	30	J	
2-Nitrophenol	880.2	310	1293	0	68.1	40-110	803.7	9.09	30		
3-Nitroaniline	886.7	1,300	1293	0	68.6	25-110	645.2	0	30	J	
4-Bromophenyl phenyl ether	1082	310	1293	0	83.7	45-115	1029	5	30		
4-Chloro-3-methylphenol	919	310	1293	0	71.1	45-115	1014	9.83	30		
4-Chloroaniline	557.1	1,300	1293	0	43.1	15-110	625.6	0	30	J	
4-Chlorophenyl phenyl ether	953.3	310	1293	0	73.7	45-110	967.5	1.48	30		
4-Methylphenol	868.6	310	1293	0	67.2	40-105	1036	17.6	30		
4-Nitroaniline	868	1,300	1293	0	67.1	35-150	602	0	30	J	
4-Nitrophenol	758.7	1,300	1293	0	58.7	15-140	650.5	0	30	J	
Acenaphthene	972	58	1293	0	75.2	45-110	964.9	0.736	30		
Acenaphthylene	1028	58	1293	0	79.5	45-105	1024	0.302	30		
Anthracene	1150	58	1293	99.19	81.3	55-105	1093	5.09	30		
Benzo(a)anthracene	1164	58	1293	228.3	72.4	50-110	1129	3.08	30		
Benzo(a)pyrene	1167	58	1293	190.8	75.5	50-110	1173	0.457	30		
Benzo(b)fluoranthene	1127	58	1293	244.4	68.3	45-115	1137	0.829	30		
Benzo(g,h,i)perylene	1227	58	1293	117.3	85.8	40-125	1066	14	30		
Benzo(k)fluoranthene	1123	58	1293	89.67	80	45-115	1106	1.51	30		
Bis(2-chloroethoxy)methane	917.7	310	1293	0	71	45-110	930.2	1.35	30		
Bis(2-chloroethyl)ether	1088	310	1293	0	84.2	40-105	1247	13.6	30		
Bis(2-chloroisopropyl)ether	911.9	310	1293	0	70.5	20-115	999.6	9.18	30		
Bis(2-ethylhexyl)phthalate	1508	640	1293	55.84	112	45-125	1618	7.01	30		
Butyl benzyl phthalate	1373	310	1293	0	106	50-125	1442	4.95	30		
Carbazole	1104	310	1293	51.24	81.4	50-150	1042	5.81	30		
Chrysene	1200	58	1293	197.7	77.5	55-110	1149	4.3	30		
Dibenzo(a,h)anthracene	1163	58	1293	52.55	85.9	40-125	1035	11.6	30		
Dibenzofuran	972	310	1293	0	75.2	50-105	984.5	1.28	30		
Diethyl phthalate	975.2	640	1293	0	75.4	50-115	997.6	2.27	30		
Dimethyl phthalate	964.9	640	1293	0	74.6	50-110	960.3	0.478	30		
Di-n-butyl phthalate	1123	640	1293	0	86.9	55-110	1087	3.3	30		
Di-n-octyl phthalate	1518	310	1293	106.4	109	40-130	1659	8.88	30		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>48026</b>		Instrument ID <b>SVMS6</b>		Method: <b>SW8270</b>					
Fluoranthene	1070	58	1293	354.7	55.4	55-115	999.6	6.83	30
Fluorene	995.3	58	1293	24.63	75.1	50-110	1023	2.77	30
Hexachlorobenzene	937.8	310	1293	0	72.5	45-120	911.8	2.8	30
Hexachlorobutadiene	831.1	310	1293	0	64.3	40-115	829.9	0.142	30
Hexachlorocyclopentadiene	564.9	640	1293	0	43.7	40-115	461.8	0	30 J
Hexachloroethane	982.4	310	1293	0	76	35-110	994.4	1.22	30
Indeno(1,2,3-cd)pyrene	1197	58	1293	145.8	81.3	40-120	1078	10.5	30
Isophorone	905.4	310	1293	0	70	45-110	915.8	1.13	30
Naphthalene	869.3	58	1293	0	67.2	40-105	884.3	1.72	30
Nitrobenzene	990.8	310	1293	0	76.6	40-115	964.9	2.65	30
N-Nitrosodi-n-propylamine	937.8	310	1293	0	72.5	40-115	1031	9.48	30
N-Nitrosodiphenylamine	1204	310	1293	0	93.1	50-115	1152	4.4	30
Pentachlorophenol	818.8	640	1293	0	63.3	25-120	393	70.3	30 R
Phenanthrene	1046	58	1293	274.3	59.7	50-110	1003	4.24	30
Phenol	911.9	310	1293	0	70.5	40-100	1040	13.1	30
Pyrene	1387	58	1293	369.8	78.7	45-125	1459	5.1	30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2114</i>	<i>0</i>	<i>3232</i>	<i>0</i>	<i>65.4</i>	<i>34-140</i>	<i>1469</i>	<i>36</i>	<i>40</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>2404</i>	<i>0</i>	<i>3232</i>	<i>0</i>	<i>74.4</i>	<i>12-100</i>	<i>2371</i>	<i>1.38</i>	<i>40</i>
<i>Surr: 2-Fluorophenol</i>	<i>2513</i>	<i>0</i>	<i>3232</i>	<i>0</i>	<i>77.8</i>	<i>33-117</i>	<i>2770</i>	<i>9.75</i>	<i>40</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>3683</i>	<i>0</i>	<i>3232</i>	<i>0</i>	<i>114</i>	<i>25-137</i>	<i>4021</i>	<i>8.78</i>	<i>40</i>
<i>Surr: Nitrobenzene-d5</i>	<i>2327</i>	<i>0</i>	<i>3232</i>	<i>0</i>	<i>72</i>	<i>37-107</i>	<i>2333</i>	<i>0.23</i>	<i>40</i>
<i>Surr: Phenol-d6</i>	<i>2290</i>	<i>0</i>	<i>3232</i>	<i>0</i>	<i>70.9</i>	<i>40-106</i>	<i>2652</i>	<i>14.6</i>	<i>40</i>

The following samples were analyzed in this batch:

13041107-03C	13041107-05C	13041107-06C
13041107-07C	13041107-08C	13041107-09C
13041107-10C	13041107-11C	13041107-12C
13041107-13C	13041107-14C	13041107-15C
13041107-16C	13041107-17C	13041107-18C
13041107-20C	13041107-21C	13041107-22C
13041107-23C		

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

Client: Tetra Tech  
 Work Order: 13041107  
 Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **48027** Instrument ID **SVMS5** Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>DBLKS1-48027-48027</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/5/2013 07:40 PM</b>		
Client ID:		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305641</b>		Prep Date: <b>4/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C21)	U	4.2								
ORO (C21-C35)	U	4.2								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.897</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>114</i>	<i>25-137</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>DLCSS1-48027-48027</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/5/2013 08:00 PM</b>		
Client ID:		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305643</b>		Prep Date: <b>4/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C21)	97.15	4.2	166.7	0	58.3	49-124	0			
ORO (C21-C35)	115.2	4.2	166.7	0	69.2	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.879</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>113</i>	<i>25-137</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>13041107-15C MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/5/2013 08:40 PM</b>		
Client ID: <b>LCBP-SS-006</b>		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305645</b>		Prep Date: <b>4/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C21)	179.4	8.3	330.8	0	54.2	31-135	0			
ORO (C21-C35)	301.3	8.3	330.8	67.63	70.6	31-135	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>3.832</i>	<i>0</i>	<i>3.308</i>	<i>0</i>	<i>116</i>	<i>25-137</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>13041107-15C MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/5/2013 09:00 PM</b>		
Client ID: <b>LCBP-SS-006</b>		Run ID: <b>SVMS5_130505A</b>				SeqNo: <b>2305647</b>		Prep Date: <b>4/30/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C21)	172.2	8.1	323.8	0	53.2	31-135	179.4	4.11	30	
ORO (C21-C35)	298.2	8.1	323.8	67.63	71.2	31-135	301.3	1.03	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>3.784</i>	<i>0</i>	<i>3.238</i>	<i>0</i>	<i>117</i>	<i>25-137</i>	<i>3.832</i>	<i>1.25</i>	<i>30</i>	

The following samples were analyzed in this batch:

13041107-03C	13041107-05C	13041107-06C
13041107-07C	13041107-08C	13041107-09C
13041107-10C	13041107-11C	13041107-12C
13041107-13C	13041107-14C	13041107-15C
13041107-16C	13041107-17C	13041107-18C
13041107-20C	13041107-21C	13041107-22C
13041107-23C		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **47992**      Instrument ID **VMS8**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-47992-47992</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/28/2013 01:34 PM</b>		
Client ID:		Run ID: <b>VMS8_130428A</b>				SeqNo: <b>2295106</b>		Prep Date: <b>4/28/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>47992</b>	Instrument ID <b>VMS8</b>	Method: <b>SW8260</b>
Styrene	U	30
Tetrachloroethene	U	30
Toluene	U	30
trans-1,2-Dichloroethene	U	30
trans-1,3-Dichloropropene	U	30
Trichloroethene	U	30
Trichlorofluoromethane	U	30
Vinyl chloride	U	30
Xylenes, Total	U	90

<i>Surr: 1,2-Dichloroethane-d4</i>	907.5	0	1000	0	90.8	70-130	0
<i>Surr: 4-Bromofluorobenzene</i>	999.5	0	1000	0	100	70-130	0
<i>Surr: Dibromofluoromethane</i>	934	0	1000	0	93.4	70-130	0
<i>Surr: Toluene-d8</i>	979.5	0	1000	0	98	70-130	0

MBLK		Sample ID: MBLK-47992-47992				Units: µg/Kg		Analysis Date: 4/28/2013 01:34 PM		
Client ID:			Run ID: VMS8_130428A			SeqNo: 2295184		Prep Date: 4/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000								
Surr: Toluene-d8	979.5	0	1000	0	98	70-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **47992**      Instrument ID **VMS8**      Method: **SW8260**

MBLK		Sample ID: <b>MBLK-47992-47992</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/29/2013 02:13 PM</b>		
Client ID:		Run ID: <b>VMS8_130429A</b>				SeqNo: <b>2296966</b>		Prep Date: <b>4/28/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	74	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>47992</b>	Instrument ID <b>VMS8</b>	Method: <b>SW8260</b>
Styrene	U	30
Tetrachloroethene	U	30
Toluene	U	30
trans-1,2-Dichloroethene	U	30
trans-1,3-Dichloropropene	U	30
Trichloroethene	U	30
Trichlorofluoromethane	U	30
Vinyl chloride	U	30
Xylenes, Total	U	90

<i>Surr: 1,2-Dichloroethane-d4</i>	844.5	0	1000	0	84.4	70-130	0
<i>Surr: 4-Bromofluorobenzene</i>	999.5	0	1000	0	100	70-130	0
<i>Surr: Dibromofluoromethane</i>	884.5	0	1000	0	88.4	70-130	0
<i>Surr: Toluene-d8</i>	964	0	1000	0	96.4	70-130	0

MBLK		Sample ID: MBLK-47992-47992				Units: µg/Kg		Analysis Date: 4/29/2013 02:13 PM		
Client ID:			Run ID: VMS8_130429A			SeqNo: 2297131		Prep Date: 4/28/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000								
Surr: Toluene-d8	967.5	0	1000	0	96.8	70-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **47992**      Instrument ID **VMS8**      Method: **SW8260**

LCS Sample ID: <b>LCS-47992-47992</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>4/28/2013 11:28 AM</b>			
Client ID:		Run ID: <b>VMS8_130428A</b>		SeqNo: <b>2295101</b>		Prep Date: <b>4/28/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	955.5	30	1000	0	95.6	70-135	0			
1,1,2,2-Tetrachloroethane	918.5	30	1000	0	91.8	55-130	0			
1,1,2-Trichloroethane	932.5	30	1000	0	93.2	60-125	0			
1,1-Dichloroethane	909	30	1000	0	90.9	75-125	0			
1,1-Dichloroethene	885.5	30	1000	0	88.6	65-135	0			
1,2,4-Trichlorobenzene	986	30	1000	0	98.6	65-130	0			
1,2-Dibromo-3-chloropropane	933.5	30	1000	0	93.4	40-135	0			
1,2-Dibromoethane	958.5	30	1000	0	95.8	70-125	0			
1,2-Dichlorobenzene	1005	30	1000	0	100	75-120	0			
1,2-Dichloroethane	926	30	1000	0	92.6	70-135	0			
1,2-Dichloropropane	952.5	30	1000	0	95.2	70-120	0			
1,3-Dichlorobenzene	1009	30	1000	0	101	70-125	0			
1,4-Dichlorobenzene	995.5	30	1000	0	99.6	70-125	0			
2-Butanone	904	200	1000	0	90.4	30-160	0			
2-Hexanone	909	30	1000	0	90.9	45-145	0			
4-Methyl-2-pentanone	1214	30	1000	0	121	45-145	0			
Acetone	939	100	1000	0	93.9	20-160	0			
Benzene	930	30	1000	0	93	75-125	0			
Bromodichloromethane	962.5	30	1000	0	96.2	70-130	0			
Bromoform	926	30	1000	0	92.6	55-135	0			
Bromomethane	1252	75	1000	0	125	30-160	0			
Carbon disulfide	949	30	1000	0	94.9	45-160	0			
Carbon tetrachloride	925.5	30	1000	0	92.6	65-135	0			
Chlorobenzene	975	30	1000	0	97.5	75-125	0			
Chloroethane	925.5	100	1000	0	92.6	40-155	0			
Chloroform	936	30	1000	0	93.6	70-125	0			
Chloromethane	895.5	100	1000	0	89.6	50-130	0			
cis-1,2-Dichloroethene	943.5	30	1000	0	94.4	65-125	0			
cis-1,3-Dichloropropene	971.5	30	1000	0	97.2	70-125	0			
Dibromochloromethane	935.5	30	1000	0	93.6	65-135	0			
Dichlorodifluoromethane	713	30	1000	0	71.3	35-135	0			
Ethylbenzene	979.5	30	1000	0	98	75-125	0			
Isopropylbenzene	971	30	1000	0	97.1	75-130	0			
m,p-Xylene	1968	60	2000	0	98.4	80-125	0			
Methyl tert-butyl ether	998.5	30	1000	0	99.8	75-125	0			
Methylene chloride	873.5	30	1000	0	87.4	55-145	0			
o-Xylene	995	30	1000	0	99.5	75-125	0			
Styrene	1040	30	1000	0	104	75-125	0			
Tetrachloroethene	1012	30	1000	0	101	64-140	0			
Toluene	950	30	1000	0	95	70-125	0			
trans-1,2-Dichloroethene	910.5	30	1000	0	91	65-135	0			
trans-1,3-Dichloropropene	991.5	30	1000	0	99.2	65-125	0			

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>47992</b>	Instrument ID <b>VMS8</b>		Method: <b>SW8260</b>				
Trichloroethene	940	30	1000	0	94	75-125	0
Trichlorofluoromethane	941	30	1000	0	94.1	25-185	0
Vinyl chloride	968	30	1000	0	96.8	60-125	0
Xylenes, Total	2964	90	3000	0	98.8	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>912</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>91.2</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1014</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>976</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>999.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>

LCS	Sample ID: LCS-47992-47992				Units: µg/Kg			Analysis Date: 4/28/2013 12:23 PM		
Client ID:		Run ID: VMS8_130428A			SeqNo: 2295183		Prep Date: 4/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	21120	5,000	25000	0	84.5	70-130	0			
Surr: Toluene-d8	978	0	1000	0	97.8	70-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **47992**      Instrument ID **VMS8**      Method: **SW8260**

LCS Sample ID: <b>LCS-47992-47992</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>4/29/2013 12:14 PM</b>			
Client ID:		Run ID: <b>VMS8_130429A</b>		SeqNo: <b>2296962</b>		Prep Date: <b>4/28/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1046	30	1000	0	105	70-135	0			
1,1,2,2-Tetrachloroethane	966.5	30	1000	0	96.6	55-130	0			
1,1,2-Trichloroethane	983	30	1000	0	98.3	60-125	0			
1,1-Dichloroethane	947	30	1000	0	94.7	75-125	0			
1,1-Dichloroethene	953.5	30	1000	0	95.4	65-135	0			
1,2,4-Trichlorobenzene	1029	30	1000	0	103	65-130	0			
1,2-Dibromo-3-chloropropane	965	30	1000	0	96.5	40-135	0			
1,2-Dibromoethane	1014	30	1000	0	101	70-125	0			
1,2-Dichlorobenzene	1071	30	1000	0	107	75-120	0			
1,2-Dichloroethane	958	30	1000	0	95.8	70-135	0			
1,2-Dichloropropane	1022	30	1000	0	102	70-120	0			
1,3-Dichlorobenzene	1078	30	1000	0	108	70-125	0			
1,4-Dichlorobenzene	1069	30	1000	0	107	70-125	0			
2-Butanone	846.5	200	1000	0	84.6	30-160	0			
2-Hexanone	873.5	30	1000	0	87.4	45-145	0			
4-Methyl-2-pentanone	1157	30	1000	0	116	45-145	0			
Acetone	930.5	100	1000	0	93	20-160	0			
Benzene	1028	30	1000	0	103	75-125	0			
Bromodichloromethane	1016	30	1000	0	102	70-130	0			
Bromoform	966.5	30	1000	0	96.6	55-135	0			
Bromomethane	1296	75	1000	0	130	30-160	0			
Carbon disulfide	1009	30	1000	0	101	45-160	0			
Carbon tetrachloride	1067	30	1000	0	107	65-135	0			
Chlorobenzene	1075	30	1000	0	108	75-125	0			
Chloroethane	963	100	1000	0	96.3	40-155	0			
Chloroform	999	30	1000	0	99.9	70-125	0			B
Chloromethane	978.5	100	1000	0	97.8	50-130	0			
cis-1,2-Dichloroethene	976	30	1000	0	97.6	65-125	0			
cis-1,3-Dichloropropene	1024	30	1000	0	102	70-125	0			
Dibromochloromethane	993.5	30	1000	0	99.4	65-135	0			
Dichlorodifluoromethane	837	30	1000	0	83.7	35-135	0			
Ethylbenzene	1070	30	1000	0	107	75-125	0			
Isopropylbenzene	1082	30	1000	0	108	75-130	0			
m,p-Xylene	2136	60	2000	0	107	80-125	0			
Methyl tert-butyl ether	960.5	30	1000	0	96	75-125	0			
Methylene chloride	862.5	30	1000	0	86.2	55-145	0			
o-Xylene	1067	30	1000	0	107	75-125	0			
Styrene	1134	30	1000	0	113	75-125	0			
Tetrachloroethene	1164	30	1000	0	116	64-140	0			
Toluene	1038	30	1000	0	104	70-125	0			
trans-1,2-Dichloroethene	939.5	30	1000	0	94	65-135	0			
trans-1,3-Dichloropropene	1030	30	1000	0	103	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>47992</b>	Instrument ID <b>VMS8</b>	Method: <b>SW8260</b>					
Trichloroethene	1031	30	1000	0	103	75-125	0
Trichlorofluoromethane	1049	30	1000	0	105	25-185	0
Vinyl chloride	1112	30	1000	0	111	60-125	0
Xylenes, Total	3202	90	3000	0	107	75-125	0
Surr: 1,2-Dichloroethane-d4	840	0	1000	0	84	70-130	0
Surr: 4-Bromofluorobenzene	1008	0	1000	0	101	70-130	0
Surr: Dibromofluoromethane	958.5	0	1000	0	95.8	70-130	0
Surr: Toluene-d8	983	0	1000	0	98.3	70-130	0

<b>LCS</b>	Sample ID: <b>LCS-47992-47992</b>	Units: <b>µg/Kg</b>	Analysis Date: <b>4/29/2013 01:01 PM</b>							
Client ID:	Run ID: <b>VMS8_130429A</b>	SeqNo: <b>2297130</b>	Prep Date: <b>4/28/2013</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	20910	5,000	25000	0	83.6	70-130	0			
Surr: Toluene-d8	982.5	0	1000	0	98.2	70-130	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **47992**      Instrument ID **VMS8**      Method: **SW8260**

MS				Sample ID: <b>13041107-11A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/29/2013 08:19 PM</b>	
Client ID: <b>LCBP-SS-004</b>				Run ID: <b>VMS8_130429A</b>			SeqNo: <b>2296981</b>		Prep Date: <b>4/28/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	860.5	30	1000	0	86	70-135	0			
1,1,2,2-Tetrachloroethane	962	30	1000	0	96.2	55-130	0			
1,1,2-Trichloroethane	1004	30	1000	0	100	60-125	0			
1,1-Dichloroethane	826.5	30	1000	0	82.6	75-125	0			
1,1-Dichloroethene	712	30	1000	0	71.2	65-135	0			
1,2,4-Trichlorobenzene	966.5	30	1000	0	96.6	65-130	0			
1,2-Dibromo-3-chloropropane	875.5	30	1000	0	87.6	40-135	0			
1,2-Dibromoethane	1000	30	1000	0	100	70-125	0			
1,2-Dichlorobenzene	1007	30	1000	0	101	75-120	0			
1,2-Dichloroethane	930.5	30	1000	0	93	70-135	0			
1,2-Dichloropropane	962	30	1000	0	96.2	70-120	0			
1,3-Dichlorobenzene	1000	30	1000	0	100	70-125	0			
1,4-Dichlorobenzene	1010	30	1000	0	101	70-125	0			
2-Butanone	747	200	1000	0	74.7	30-160	0			
2-Hexanone	953	30	1000	0	95.3	45-145	0			
4-Methyl-2-pentanone	1286	30	1000	0	129	45-145	0			
Acetone	942	100	1000	0	94.2	20-160	0			
Benzene	920.5	30	1000	0	92	75-125	0			
Bromodichloromethane	916	30	1000	0	91.6	70-130	0			
Bromoform	850	30	1000	0	85	55-135	0			
Bromomethane	1002	75	1000	0	100	30-160	0			
Carbon disulfide	670	30	1000	0	67	45-160	0			
Carbon tetrachloride	819.5	30	1000	0	82	65-135	0			
Chlorobenzene	1005	30	1000	0	100	75-125	0			
Chloroethane	650.5	100	1000	0	65	40-155	0			
Chloroform	912.5	30	1000	0	91.2	70-125	0			B
Chloromethane	673.5	100	1000	0	67.4	50-130	0			
cis-1,2-Dichloroethene	882.5	30	1000	0	88.2	65-125	0			
cis-1,3-Dichloropropene	989.5	30	1000	0	99	70-125	0			
Dibromochloromethane	914.5	30	1000	0	91.4	65-135	0			
Dichlorodifluoromethane	514.5	30	1000	0	51.4	35-135	0			
Ethylbenzene	978	30	1000	0	97.8	75-125	0			
Isopropylbenzene	999.5	30	1000	0	100	75-130	0			
m,p-Xylene	1980	60	2000	0	99	80-125	0			
Methyl tert-butyl ether	992.5	30	1000	0	99.2	75-125	0			
Methylene chloride	824.5	30	1000	0	82.4	55-145	0			
o-Xylene	1021	30	1000	0	102	75-125	0			
Styrene	1080	30	1000	0	108	75-125	0			
Tetrachloroethene	973.5	30	1000	0	97.4	64-140	0			
Toluene	927.5	30	1000	0	92.8	70-125	0			
trans-1,2-Dichloroethene	779	30	1000	0	77.9	65-135	0			
trans-1,3-Dichloropropene	998	30	1000	0	99.8	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>47992</b>	Instrument ID <b>VMS8</b>		Method: <b>SW8260</b>				
Trichloroethene	926.5	30	1000	0	92.6	75-125	0
Trichlorofluoromethane	761.5	30	1000	0	76.2	25-185	0
Vinyl chloride	697.5	30	1000	0	69.8	60-125	0
Xylenes, Total	3000	90	3000	0	100	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>873</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>87.3</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1060</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>939.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>94</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>995</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.5</i>	<i>70-130</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **47992**      Instrument ID **VMS8**      Method: **SW8260**

MSD						Sample ID: 13041107-11A MSD		Units: µg/Kg		Analysis Date: 4/29/2013 08:43 PM	
Client ID: LCBP-SS-004				Run ID: VMS8_130429A		SeqNo: 2296985		Prep Date: 4/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	863.5	30	1000	0	86.4	70-135	860.5	0.348	30		
1,1,2,2-Tetrachloroethane	936.5	30	1000	0	93.6	55-130	962	2.69	30		
1,1,2-Trichloroethane	956	30	1000	0	95.6	60-125	1004	4.95	30		
1,1-Dichloroethane	835.5	30	1000	0	83.6	75-125	826.5	1.08	30		
1,1-Dichloroethene	718	30	1000	0	71.8	65-135	712	0.839	30		
1,2,4-Trichlorobenzene	986.5	30	1000	0	98.6	65-130	966.5	2.05	30		
1,2-Dibromo-3-chloropropane	879	30	1000	0	87.9	40-135	875.5	0.399	30		
1,2-Dibromoethane	976	30	1000	0	97.6	70-125	1000	2.43	30		
1,2-Dichlorobenzene	1004	30	1000	0	100	75-120	1007	0.249	30		
1,2-Dichloroethane	928.5	30	1000	0	92.8	70-135	930.5	0.215	30		
1,2-Dichloropropane	961	30	1000	0	96.1	70-120	962	0.104	30		
1,3-Dichlorobenzene	984.5	30	1000	0	98.4	70-125	1000	1.61	30		
1,4-Dichlorobenzene	997	30	1000	0	99.7	70-125	1010	1.3	30		
2-Butanone	862.5	200	1000	0	86.2	30-160	747	14.4	30		
2-Hexanone	923	30	1000	0	92.3	45-145	953	3.2	30		
4-Methyl-2-pentanone	1228	30	1000	0	123	45-145	1286	4.58	30		
Acetone	984	100	1000	0	98.4	20-160	942	4.36	30		
Benzene	904	30	1000	0	90.4	75-125	920.5	1.81	30		
Bromodichloromethane	913	30	1000	0	91.3	70-130	916	0.328	30		
Bromoform	827.5	30	1000	0	82.8	55-135	850	2.68	30		
Bromomethane	935	75	1000	0	93.5	30-160	1002	6.92	30		
Carbon disulfide	698.5	30	1000	0	69.8	45-160	670	4.17	30		
Carbon tetrachloride	836	30	1000	0	83.6	65-135	819.5	1.99	30		
Chlorobenzene	964.5	30	1000	0	96.4	75-125	1005	4.11	30		
Chloroethane	518.5	100	1000	0	51.8	40-155	650.5	22.6	30		
Chloroform	909.5	30	1000	0	91	70-125	912.5	0.329	30	B	
Chloromethane	666.5	100	1000	0	66.6	50-130	673.5	1.04	30		
cis-1,2-Dichloroethene	891	30	1000	0	89.1	65-125	882.5	0.959	30		
cis-1,3-Dichloropropene	988	30	1000	0	98.8	70-125	989.5	0.152	30		
Dibromochloromethane	881.5	30	1000	0	88.2	65-135	914.5	3.67	30		
Dichlorodifluoromethane	494.5	30	1000	0	49.4	35-135	514.5	3.96	30		
Ethylbenzene	964.5	30	1000	0	96.4	75-125	978	1.39	30		
Isopropylbenzene	969.5	30	1000	0	97	75-130	999.5	3.05	30		
m,p-Xylene	1900	60	2000	0	95	80-125	1980	4.1	30		
Methyl tert-butyl ether	1010	30	1000	0	101	75-125	992.5	1.7	30		
Methylene chloride	853.5	30	1000	0	85.4	55-145	824.5	3.46	30		
o-Xylene	989	30	1000	0	98.9	75-125	1021	3.18	30		
Styrene	1060	30	1000	0	106	75-125	1080	1.92	30		
Tetrachloroethene	966.5	30	1000	0	96.6	64-140	973.5	0.722	30		
Toluene	910	30	1000	0	91	70-125	927.5	1.9	30		
trans-1,2-Dichloroethene	811.5	30	1000	0	81.2	65-135	779	4.09	30		
trans-1,3-Dichloropropene	973	30	1000	0	97.3	65-125	998	2.54	30		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>47992</b>	Instrument ID <b>VMS8</b>			Method: <b>SW8260</b>						
Trichloroethene	921.5	30	1000	0	92.2	75-125	926.5	0.541	30	
Trichlorofluoromethane	651.5	30	1000	0	65.2	25-185	761.5	15.6	30	
Vinyl chloride	681.5	30	1000	0	68.2	60-125	697.5	2.32	30	
Xylenes, Total	2889	90	3000	0	96.3	75-125	3000	3.79	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>849</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>84.9</i>	<i>70-130</i>	<i>873</i>	<i>2.79</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>1060</i>	<i>4.63</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>917</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>91.7</i>	<i>70-130</i>	<i>939.5</i>	<i>2.42</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>955.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.6</i>	<i>70-130</i>	<i>995</i>	<i>4.05</i>	<i>30</i>	

The following samples were analyzed in this batch:

13041107-03A	13041107-05A	13041107-06A
13041107-07A	13041107-08A	13041107-09A
13041107-10A	13041107-11A	13041107-12A
13041107-13A	13041107-14A	13041107-15A
13041107-16A	13041107-17A	13041107-18A
13041107-20A	13041107-21A	13041107-22A
13041107-23A		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119720B**      Instrument ID **VMS8**      Method: **SW8260GRO**

<b>MBLK</b>		Sample ID: <b>VBLKW1-130428-R119720B</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/28/2013 01:10 PM</b>		
Client ID:		Run ID: <b>VMS8_130428A</b>				SeqNo: <b>2295181</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	100								
<i>Surr: Toluene-d8</i>	<i>19.85</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>70-120</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>VLCSW2-130428-R119720B</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/28/2013 12:23 PM</b>		
Client ID:		Run ID: <b>VMS8_130428A</b>				SeqNo: <b>2295180</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	422.4	100	500	0	84.5	70-130	0			
<i>Surr: Toluene-d8</i>	<i>19.56</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.8</i>	<i>70-130</i>	<i>0</i>			

The following samples were analyzed in this batch:

13041107-01A

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119757**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKS1-130429-R119757</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/29/2013 12:23 PM</b>		
Client ID:		Run ID: <b>VMS7_130429A</b>				SeqNo: <b>2296352</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	0.53	5.0								J
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.44	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	U	5.0								
o-Xylene	U	2.5								
Styrene	U	5.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119757</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	10						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	5.0						
Xylenes, Total	U	5.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>16.98</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>84.9</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.38</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.9</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>17.37</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>86.8</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>17.08</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>85.4</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119757**      Instrument ID **VMS7**      Method: **SW8260**

LCS		Sample ID: <b>VLCSS2-130429-R119757</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/29/2013 11:44 AM</b>		
Client ID:		Run ID: <b>VMS7_130429A</b>				SeqNo: <b>2296351</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.72	5.0	20	0	93.6	70-135	0			
1,1,2,2-Tetrachloroethane	16.04	5.0	20	0	80.2	55-130	0			
1,1,2-Trichloroethane	16.7	5.0	20	0	83.5	60-125	0			
1,1-Dichloroethane	17.89	5.0	20	0	89.4	75-125	0			
1,1-Dichloroethene	18.3	5.0	20	0	91.5	65-135	0			
1,2,4-Trichlorobenzene	17.97	5.0	20	0	89.8	65-130	0			
1,2-Dibromo-3-chloropropane	15.34	5.0	20	0	76.7	40-135	0			
1,2-Dibromoethane	18.81	5.0	20	0	94	70-125	0			
1,2-Dichlorobenzene	18	5.0	20	0	90	75-120	0			
1,2-Dichloroethane	17.88	5.0	20	0	89.4	70-135	0			
1,2-Dichloropropane	18.16	5.0	20	0	90.8	70-120	0			
1,3-Dichlorobenzene	18.26	5.0	20	0	91.3	70-125	0			
1,4-Dichlorobenzene	18.15	5.0	20	0	90.8	70-125	0			
2-Butanone	16.48	10	20	0	82.4	30-160	0			
2-Hexanone	13.89	5.0	20	0	69.4	45-145	0			
4-Methyl-2-pentanone	20.66	5.0	20	0	103	45-145	0			
Acetone	41.14	10	20	0	206	20-160	0			S
Benzene	18.97	5.0	20	0	94.8	75-125	0			
Bromodichloromethane	18.59	5.0	20	0	93	70-130	0			
Bromoform	16.93	5.0	20	0	84.6	55-135	0			
Bromomethane	19.62	10	20	0	98.1	30-160	0			
Carbon disulfide	19.67	5.0	20	0	98.4	45-160	0			
Carbon tetrachloride	20.71	5.0	20	0	104	65-135	0			
Chlorobenzene	18.99	5.0	20	0	95	75-125	0			
Chloroethane	16.31	5.0	20	0	81.6	40-155	0			
Chloroform	19.32	5.0	20	0	96.6	70-125	0			
Chloromethane	16.54	10	20	0	82.7	50-130	0			
cis-1,2-Dichloroethene	17.61	5.0	20	0	88	65-125	0			
cis-1,3-Dichloropropene	18.12	5.0	20	0	90.6	70-125	0			
Dibromochloromethane	17.56	5.0	20	0	87.8	65-135	0			
Dichlorodifluoromethane	14.25	10	20	0	71.2	35-135	0			
Ethylbenzene	18.72	5.0	20	0	93.6	75-125	0			
Isopropylbenzene	18.31	5.0	20	0	91.6	75-130	0			
m,p-Xylene	36.94	2.5	40	0	92.4	80-125	0			
Methyl tert-butyl ether	17.13	5.0	20	0	85.6	75-125	0			
Methylene chloride	25.98	5.0	20	0	130	55-140	0			
o-Xylene	18.35	2.5	20	0	91.8	75-125	0			
Styrene	16.13	5.0	20	0	80.6	75-125	0			
Tetrachloroethene	19.51	5.0	20	0	97.6	65-140	0			
Toluene	18.84	5.0	20	0	94.2	70-125	0			
trans-1,2-Dichloroethene	18.73	5.0	20	0	93.6	65-135	0			
trans-1,3-Dichloropropene	17.93	10	20	0	89.6	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

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Batch ID: <b>R119757</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	18.54	5.0	20	0	92.7	75-125	0
Trichlorofluoromethane	15.67	5.0	20	0	78.4	25-185	0
Vinyl chloride	17.57	5.0	20	0	87.8	60-125	0
Xylenes, Total	55.29	5.0	60	0	92.2	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>17.74</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>88.7</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.28</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>18.63</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.2</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>18.32</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.6</i>	<i>85-120</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119757**      Instrument ID **VMS7**      Method: **SW8260**

MS				Sample ID: <b>13041004-03A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/29/2013 09:32 PM</b>	
Client ID:				Run ID: <b>VMS7_130429A</b>			SeqNo: <b>2296627</b>		Prep Date:	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.55	5.0	20	0	82.8	70-135	0			
1,1,2,2-Tetrachloroethane	14.71	5.0	20	0	73.6	55-130	0			
1,1,2-Trichloroethane	15.74	5.0	20	0	78.7	60-125	0			
1,1-Dichloroethane	15.97	5.0	20	0	79.8	75-125	0			
1,1-Dichloroethene	14.5	5.0	20	0	72.5	65-135	0			
1,2,4-Trichlorobenzene	5.39	5.0	20	0	27	65-130	0			S
1,2-Dibromo-3-chloropropane	13.34	5.0	20	0	66.7	40-135	0			
1,2-Dibromoethane	15.91	5.0	20	0	79.6	70-125	0			
1,2-Dichlorobenzene	9.41	5.0	20	0	47	75-120	0			S
1,2-Dichloroethane	15.99	5.0	20	0	80	70-135	0			
1,2-Dichloropropane	15.84	5.0	20	0	79.2	70-120	0			
1,3-Dichlorobenzene	9.69	5.0	20	0	48.4	70-125	0			S
1,4-Dichlorobenzene	9.54	5.0	20	0	47.7	70-125	0			S
2-Butanone	29.26	10	20	10.2	95.3	30-160	0			
2-Hexanone	12.84	5.0	20	0	64.2	45-145	0			
4-Methyl-2-pentanone	16.77	5.0	20	0	83.8	45-145	0			
Acetone	31.64	10	20	80.67	-245	20-160	0			SO
Benzene	16.97	5.0	20	0	84.8	75-125	0			
Bromodichloromethane	15.87	5.0	20	0	79.4	70-130	0			
Bromoform	13.81	5.0	20	0	69	55-135	0			
Bromomethane	12.46	10	20	0	62.3	30-160	0			
Carbon disulfide	15.13	5.0	20	0.1994	74.7	45-160	0			
Carbon tetrachloride	17.78	5.0	20	0	88.9	65-135	0			
Chlorobenzene	13.68	5.0	20	0	68.4	75-125	0			S
Chloroethane	13.99	5.0	20	0	70	40-155	0			
Chloroform	17.25	5.0	20	0.374	84.4	70-125	0			
Chloromethane	9.23	10	20	0	46.2	50-130	0			JS
cis-1,2-Dichloroethene	15.12	5.0	20	0	75.6	65-125	0			
cis-1,3-Dichloropropene	13.85	5.0	20	0	69.2	70-125	0			S
Dibromochloromethane	14.53	5.0	20	0	72.6	65-135	0			
Dichlorodifluoromethane	10.39	10	20	0	52	35-135	0			
Ethylbenzene	14.96	5.0	20	0	74.8	75-125	0			S
Isopropylbenzene	14.41	5.0	20	0	72	75-130	0			S
m,p-Xylene	29.48	2.5	40	0	73.7	80-125	0			S
Methyl tert-butyl ether	16.91	5.0	20	0	84.6	75-125	0			
Methylene chloride	19.53	5.0	20	0	97.6	55-140	0			
o-Xylene	14.3	2.5	20	0	71.5	75-125	0			S
Styrene	12.18	5.0	20	0	60.9	75-125	0			S
Tetrachloroethene	16.93	5.0	20	0	84.6	65-140	0			
Toluene	18.9	5.0	20	0	94.5	70-125	0			
trans-1,2-Dichloroethene	15.64	5.0	20	0	78.2	65-135	0			
trans-1,3-Dichloropropene	13.51	10	20	0	67.6	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119757</b>		Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	16.48	5.0	20	0	82.4	75-125	0	
Trichlorofluoromethane	15.09	5.0	20	0	75.4	25-185	0	
Vinyl chloride	11.85	5.0	20	0	59.2	60-125	0	S
Xylenes, Total	43.78	5.0	60	0	73	75-125	0	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.05</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>90.2</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.13</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>90.6</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>17.98</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>89.9</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>17.2</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>86</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119757**      Instrument ID **VMS7**      Method: **SW8260**

MSD				Sample ID: <b>13041004-03A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/29/2013 10:01 PM</b>	
Client ID:				Run ID: <b>VMS7_130429A</b>			SeqNo: <b>2296629</b>		Prep Date:	
									DF: <b>0.994</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	17.24	5.0	19.88	0	86.7	70-135	16.55	4.06	30	
1,1,2,2-Tetrachloroethane	14.38	5.0	19.88	0	72.4	55-130	14.71	2.25	30	
1,1,2-Trichloroethane	15.49	5.0	19.88	0	77.9	60-125	15.74	1.62	30	
1,1-Dichloroethane	15.97	5.0	19.88	0	80.4	75-125	15.97	0.0224	30	
1,1-Dichloroethene	14.6	5.0	19.88	0	73.4	65-135	14.5	0.7	30	
1,2,4-Trichlorobenzene	6.024	5.0	19.88	0	30.3	65-130	5.39	11.1	30	S
1,2-Dibromo-3-chloropropane	12.61	5.0	19.88	0	63.4	40-135	13.34	5.6	30	
1,2-Dibromoethane	16.07	5.0	19.88	0	80.8	70-125	15.91	1.02	30	
1,2-Dichlorobenzene	10	5.0	19.88	0	50.3	75-120	9.41	6.08	30	S
1,2-Dichloroethane	15.91	5.0	19.88	0	80	70-135	15.99	0.477	30	
1,2-Dichloropropane	16.42	5.0	19.88	0	82.6	70-120	15.84	3.6	30	
1,3-Dichlorobenzene	10.22	5.0	19.88	0	51.4	70-125	9.69	5.31	30	S
1,4-Dichlorobenzene	9.99	5.0	19.88	0	50.2	70-125	9.54	4.61	30	S
2-Butanone	26.98	9.9	19.88	10.2	84.4	30-160	29.26	8.12	30	
2-Hexanone	11.37	5.0	19.88	0	57.2	45-145	12.84	12.1	30	
4-Methyl-2-pentanone	15.23	5.0	19.88	0	76.6	45-145	16.77	9.64	30	
Acetone	33.57	9.9	19.88	80.67	-237	20-160	31.64	5.91	30	SO
Benzene	17.29	5.0	19.88	0	87	75-125	16.97	1.84	30	
Bromodichloromethane	15.87	5.0	19.88	0	79.8	70-130	15.87	0.0263	30	
Bromoform	13.41	5.0	19.88	0	67.4	55-135	13.81	2.95	30	
Bromomethane	12.13	9.9	19.88	0	61	30-160	12.46	2.71	30	
Carbon disulfide	15.1	5.0	19.88	0.1994	74.9	45-160	15.13	0.206	30	
Carbon tetrachloride	18.66	5.0	19.88	0	93.8	65-135	17.78	4.82	30	
Chlorobenzene	14.34	5.0	19.88	0	72.2	75-125	13.68	4.73	30	S
Chloroethane	13.61	5.0	19.88	0	68.4	40-155	13.99	2.77	30	
Chloroform	17.14	5.0	19.88	0.374	84.3	70-125	17.25	0.66	30	
Chloromethane	9.86	9.9	19.88	0	49.6	50-130	9.23	0	30	JS
cis-1,2-Dichloroethene	15.02	5.0	19.88	0	75.6	65-125	15.12	0.668	30	
cis-1,3-Dichloropropene	14.07	5.0	19.88	0	70.8	70-125	13.85	1.54	30	
Dibromochloromethane	14.41	5.0	19.88	0	72.5	65-135	14.53	0.808	30	
Dichlorodifluoromethane	10.55	9.9	19.88	0	53	35-135	10.39	1.49	30	
Ethylbenzene	15.84	5.0	19.88	0	79.7	75-125	14.96	5.74	30	
Isopropylbenzene	15.52	5.0	19.88	0	78	75-130	14.41	7.39	30	
m,p-Xylene	31.12	2.5	39.76	0	78.3	80-125	29.48	5.42	30	S
Methyl tert-butyl ether	16.56	5.0	19.88	0	83.3	75-125	16.91	2.09	30	
Methylene chloride	19.44	5.0	19.88	0	97.8	55-140	19.53	0.448	30	
o-Xylene	14.97	2.5	19.88	0	75.3	75-125	14.3	4.58	30	
Styrene	12.42	5.0	19.88	0	62.5	75-125	12.18	1.99	30	S
Tetrachloroethene	17.85	5.0	19.88	0	89.8	65-140	16.93	5.3	30	
Toluene	19.06	5.0	19.88	0	95.9	70-125	18.9	0.869	30	
trans-1,2-Dichloroethene	15.73	5.0	19.88	0	79.1	65-135	15.64	0.543	30	
trans-1,3-Dichloropropene	13.67	9.9	19.88	0	68.8	65-125	13.51	1.16	30	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119757</b>	Instrument ID <b>VMS7</b>			Method: <b>SW8260</b>					
Trichloroethene	16.65	5.0	19.88	0	83.8	75-125	16.48	1.02	30
Trichlorofluoromethane	14.83	5.0	19.88	0	74.6	25-185	15.09	1.73	30
Vinyl chloride	11.96	5.0	19.88	0	60.2	60-125	11.85	0.906	30
Xylenes, Total	46.09	5.0	59.64	0	77.3	75-125	43.78	5.14	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>17.91</i>	<i>0</i>	<i>19.88</i>	<i>0</i>	<i>90.1</i>	<i>70-120</i>	<i>18.05</i>	<i>0.768</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.82</i>	<i>0</i>	<i>19.88</i>	<i>0</i>	<i>94.6</i>	<i>75-120</i>	<i>18.13</i>	<i>3.72</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>18.08</i>	<i>0</i>	<i>19.88</i>	<i>0</i>	<i>91</i>	<i>85-115</i>	<i>17.98</i>	<i>0.559</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>17.73</i>	<i>0</i>	<i>19.88</i>	<i>0</i>	<i>89.2</i>	<i>85-120</i>	<i>17.2</i>	<i>3.05</i>	<i>30</i>

The following samples were analyzed in this batch:

13041107-03A	13041107-06A	13041107-07A
13041107-08A	13041107-09A	

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119761A**      Instrument ID **VMS8**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKW1-130429-R119761A</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/29/2013 01:49 PM</b>		
Client ID:		Run ID: <b>VMS8_130429A</b>				SeqNo: <b>2296925</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	1.38	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
o-Xylene	U	1.0								
Styrene	U	1.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119761A</b>	Instrument ID <b>VMS8</b>	Method: <b>SW8260</b>						
Tetrachloroethene	U	2.0						
Toluene	U	1.0						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>17.01</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>85</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.8</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>18.31</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.6</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>18.98</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.9</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119761A**      Instrument ID **VMS8**      Method: **SW8260**

LCS		Sample ID: <b>VLCSW1-130429-R119761A</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/29/2013 12:14 PM</b>		
Client ID:		Run ID: <b>VMS8_130429A</b>				SeqNo: <b>2296921</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.92	1.0	20	0	105	65-130	0			
1,1,2,2-Tetrachloroethane	19.33	1.0	20	0	96.6	65-130	0			
1,1,2-Trichloroethane	19.66	1.0	20	0	98.3	75-125	0			
1,1-Dichloroethane	18.94	1.0	20	0	94.7	70-135	0			
1,1-Dichloroethene	19.07	1.0	20	0	95.4	70-130	0			
1,2,4-Trichlorobenzene	20.58	1.0	20	0	103	65-135	0			
1,2-Dibromo-3-chloropropane	19.3	1.0	20	0	96.5	50-130	0			
1,2-Dibromoethane	20.27	1.0	20	0	101	80-120	0			
1,2-Dichlorobenzene	21.42	1.0	20	0	107	70-120	0			
1,2-Dichloroethane	19.16	1.0	20	0	95.8	70-130	0			
1,2-Dichloropropane	20.44	2.0	20	0	102	75-125	0			
1,3-Dichlorobenzene	21.55	2.0	20	0	108	75-125	0			
1,4-Dichlorobenzene	21.38	2.0	20	0	107	75-125	0			
2-Butanone	16.93	5.0	20	0	84.6	30-150	0			
2-Hexanone	17.47	5.0	20	0	87.4	55-130	0			
4-Methyl-2-pentanone	23.14	5.0	20	0	116	60-135	0			
Acetone	18.61	20	20	0	93	40-140	0			J
Benzene	20.57	1.0	20	0	103	80-120	0			
Bromodichloromethane	20.31	1.0	20	0	102	75-120	0			
Bromoform	19.33	1.0	20	0	96.6	70-130	0			
Bromomethane	25.91	1.0	20	0	130	30-145	0			
Carbon disulfide	20.18	2.5	20	0	101	35-165	0			
Carbon tetrachloride	21.34	1.0	20	0	107	65-140	0			
Chlorobenzene	21.5	1.0	20	0	108	80-120	0			
Chloroethane	19.26	1.0	20	0	96.3	60-135	0			
Chloroform	19.98	1.0	20	0	99.9	65-135	0			B
Chloromethane	19.57	1.0	20	0	97.8	70-125	0			
cis-1,2-Dichloroethene	19.52	1.0	20	0	97.6	70-125	0			
cis-1,3-Dichloropropene	20.49	1.0	20	0	102	70-130	0			
Dibromochloromethane	19.87	1.0	20	0	99.4	60-135	0			
Dichlorodifluoromethane	16.74	1.0	20	0	83.7	30-155	0			
Ethylbenzene	21.39	1.0	20	0	107	75-125	0			
Isopropylbenzene	21.64	1.0	20	0	108	75-125	0			
m,p-Xylene	42.71	2.0	40	0	107	75-130	0			
Methyl tert-butyl ether	19.21	5.0	20	0	96	65-125	0			
Methylene chloride	17.25	5.0	20	0	86.2	55-140	0			
o-Xylene	21.34	1.0	20	0	107	80-120	0			
Styrene	22.68	1.0	20	0	113	65-135	0			
Tetrachloroethene	23.27	2.0	20	0	116	45-150	0			
Toluene	20.76	1.0	20	0	104	75-120	0			
trans-1,2-Dichloroethene	18.79	1.0	20	0	94	60-140	0			
trans-1,3-Dichloropropene	20.6	1.0	20	0	103	55-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119761A</b>	Instrument ID <b>VMS8</b>		Method: <b>SW8260</b>				
Trichloroethene	20.62	1.0	20	0	103	70-125	0
Trichlorofluoromethane	20.98	1.0	20	0	105	60-145	0
Vinyl chloride	22.24	1.0	20	0	111	50-145	0
Xylenes, Total	64.05	3.0	60	0	107	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>16.8</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>84</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.15</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.17</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.8</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.66</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.3</i>	<i>85-120</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119761A**      Instrument ID **VMS8**      Method: **SW8260**

MS				Sample ID: <b>13041165-01A MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/29/2013 09:07 PM</b>	
Client ID:				Run ID: <b>VMS8_130429A</b>			SeqNo: <b>2296946</b>		Prep Date:	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.66	1.0	20	0	98.3	65-130	0			
1,1,2,2-Tetrachloroethane	17.6	1.0	20	0	88	65-130	0			
1,1,2-Trichloroethane	18.61	1.0	20	0	93	75-125	0			
1,1-Dichloroethane	16.84	1.0	20	0	84.2	70-135	0			
1,1-Dichloroethene	16.77	1.0	20	0	83.8	70-130	0			
1,2,4-Trichlorobenzene	20.13	1.0	20	0	101	65-135	0			
1,2-Dibromo-3-chloropropane	16.97	1.0	20	0	84.8	50-130	0			
1,2-Dibromoethane	18.33	1.0	20	0	91.6	80-120	0			
1,2-Dichlorobenzene	19.37	1.0	20	0	96.8	70-120	0			
1,2-Dichloroethane	16.61	1.0	20	0	83	70-130	0			
1,2-Dichloropropane	18.26	2.0	20	0	91.3	75-125	0			
1,3-Dichlorobenzene	19.67	2.0	20	0	98.4	75-125	0			
1,4-Dichlorobenzene	19.49	2.0	20	0	97.4	75-125	0			
2-Butanone	21.12	5.0	20	0	106	30-150	0			
2-Hexanone	23.49	5.0	20	0	117	55-130	0			
4-Methyl-2-pentanone	22.6	5.0	20	0	113	60-135	0			
Acetone	27.1	20	20	0	136	40-140	0			
Benzene	18.5	1.0	20	0	92.5	80-120	0			
Bromodichloromethane	17.92	1.0	20	0	89.6	75-120	0			
Bromoform	16.32	1.0	20	0	81.6	70-130	0			
Bromomethane	18.28	1.0	20	0	91.4	30-145	0			
Carbon disulfide	17.06	2.5	20	0	85.3	35-165	0			
Carbon tetrachloride	19.46	1.0	20	0	97.3	65-140	0			
Chlorobenzene	19.77	1.0	20	0	98.8	80-120	0			
Chloroethane	14.79	1.0	20	0	74	60-135	0			
Chloroform	18	1.0	20	0.94	85.3	65-135	0			B
Chloromethane	14.28	1.0	20	0	71.4	70-125	0			
cis-1,2-Dichloroethene	17.46	1.0	20	0	87.3	70-125	0			
cis-1,3-Dichloropropene	18.33	1.0	20	0	91.6	70-130	0			
Dibromochloromethane	17.33	1.0	20	0	86.6	60-135	0			
Dichlorodifluoromethane	12.69	1.0	20	0	63.4	30-155	0			
Ethylbenzene	20.59	1.0	20	0	103	75-125	0			
Isopropylbenzene	20.86	1.0	20	0	104	75-125	0			
m,p-Xylene	40.69	2.0	40	0	102	75-130	0			
Methyl tert-butyl ether	17.69	5.0	20	0	88.4	65-125	0			
Methylene chloride	15.5	5.0	20	0	77.5	55-140	0			
o-Xylene	20.59	1.0	20	0	103	80-120	0			
Styrene	21.05	1.0	20	0	105	65-135	0			
Tetrachloroethene	29.8	2.0	20	0	149	45-150	0			
Toluene	19.46	1.0	20	0	97.3	75-120	0			
trans-1,2-Dichloroethene	17.24	1.0	20	0	86.2	60-140	0			
trans-1,3-Dichloropropene	18.83	1.0	20	0	94.2	55-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

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Batch ID: <b>R119761A</b>	Instrument ID <b>VMS8</b>	Method: <b>SW8260</b>					
Trichloroethene	20.37	1.0	20	0	102	70-125	0
Trichlorofluoromethane	18.81	1.0	20	0	94	60-145	0
Vinyl chloride	16.63	1.0	20	0	83.2	50-145	0
Xylenes, Total	61.28	3.0	60	0	102	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>16.35</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>81.8</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.43</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>18.55</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92.8</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.38</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.9</i>	<i>85-120</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119761A**      Instrument ID **VMS8**      Method: **SW8260**

MSD					Sample ID: 13041165-01A MSD			Units: µg/L		Analysis Date: 4/29/2013 09:31 PM	
Client ID:			Run ID: VMS8_130429A			SeqNo: 2296947		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	20.15	1.0	20	0	101	65-130	19.66	2.46	30		
1,1,2,2-Tetrachloroethane	17.33	1.0	20	0	86.6	65-130	17.6	1.55	30		
1,1,2-Trichloroethane	18.51	1.0	20	0	92.6	75-125	18.61	0.539	30		
1,1-Dichloroethane	17.73	1.0	20	0	88.6	70-135	16.84	5.15	30		
1,1-Dichloroethene	17.07	1.0	20	0	85.4	70-130	16.77	1.77	30		
1,2,4-Trichlorobenzene	20.17	1.0	20	0	101	65-135	20.13	0.199	30		
1,2-Dibromo-3-chloropropane	16.7	1.0	20	0	83.5	50-130	16.97	1.6	30		
1,2-Dibromoethane	18.39	1.0	20	0	92	80-120	18.33	0.327	30		
1,2-Dichlorobenzene	20.07	1.0	20	0	100	70-120	19.37	3.55	30		
1,2-Dichloroethane	17.57	1.0	20	0	87.8	70-130	16.61	5.62	30		
1,2-Dichloropropane	18.69	2.0	20	0	93.4	75-125	18.26	2.33	30		
1,3-Dichlorobenzene	20.2	2.0	20	0	101	75-125	19.67	2.66	30		
1,4-Dichlorobenzene	19.92	2.0	20	0	99.6	75-125	19.49	2.18	30		
2-Butanone	23.51	5.0	20	0	118	30-150	21.12	10.7	30		
2-Hexanone	24.43	5.0	20	0	122	55-130	23.49	3.92	30		
4-Methyl-2-pentanone	23.12	5.0	20	0	116	60-135	22.6	2.27	30		
Acetone	27.8	20	20	0	139	40-140	27.1	2.55	30		
Benzene	18.59	1.0	20	0	93	80-120	18.5	0.485	30		
Bromodichloromethane	18.2	1.0	20	0	91	75-120	17.92	1.55	30		
Bromoform	16.61	1.0	20	0	83	70-130	16.32	1.76	30		
Bromomethane	18.65	1.0	20	0	93.2	30-145	18.28	2	30		
Carbon disulfide	18.03	2.5	20	0	90.2	35-165	17.06	5.53	30		
Carbon tetrachloride	19.74	1.0	20	0	98.7	65-140	19.46	1.43	30		
Chlorobenzene	19.53	1.0	20	0	97.6	80-120	19.77	1.22	30		
Chloroethane	16.51	1.0	20	0	82.6	60-135	14.79	11	30		
Chloroform	18.66	1.0	20	0.94	88.6	65-135	18	3.6	30	B	
Chloromethane	14.34	1.0	20	0	71.7	70-125	14.28	0.419	30		
cis-1,2-Dichloroethene	18.44	1.0	20	0	92.2	70-125	17.46	5.46	30		
cis-1,3-Dichloropropene	18.89	1.0	20	0	94.4	70-130	18.33	3.01	30		
Dibromochloromethane	17.13	1.0	20	0	85.6	60-135	17.33	1.16	30		
Dichlorodifluoromethane	13.01	1.0	20	0	65	30-155	12.69	2.49	30		
Ethylbenzene	20.32	1.0	20	0	102	75-125	20.59	1.32	30		
Isopropylbenzene	20.54	1.0	20	0	103	75-125	20.86	1.55	30		
m,p-Xylene	40.41	2.0	40	0	101	75-130	40.69	0.691	30		
Methyl tert-butyl ether	18.47	5.0	20	0	92.4	65-125	17.69	4.31	30		
Methylene chloride	16.67	5.0	20	0	83.4	55-140	15.5	7.27	30		
o-Xylene	20.42	1.0	20	0	102	80-120	20.59	0.829	30		
Styrene	20.93	1.0	20	0	105	65-135	21.05	0.572	30		
Tetrachloroethene	30.42	2.0	20	0	152	45-150	29.8	2.06	30	S	
Toluene	19.51	1.0	20	0	97.6	75-120	19.46	0.257	30		
trans-1,2-Dichloroethene	18.12	1.0	20	0	90.6	60-140	17.24	4.98	30		
trans-1,3-Dichloropropene	19.1	1.0	20	0	95.5	55-140	18.83	1.42	30		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119761A</b>		Instrument ID <b>VMS8</b>		Method: <b>SW8260</b>					
Trichloroethene	20.31	1.0	20	0	102	70-125	20.37	0.295	30
Trichlorofluoromethane	18.94	1.0	20	0	94.7	60-145	18.81	0.689	30
Vinyl chloride	16.73	1.0	20	0	83.6	50-145	16.63	0.6	30
Xylenes, Total	60.83	3.0	60	0	101	75-130	61.28	0.737	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>17.19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>86</i>	<i>70-120</i>	<i>16.35</i>	<i>5.01</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.87</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>75-120</i>	<i>20.43</i>	<i>2.13</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.2</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96</i>	<i>85-115</i>	<i>18.55</i>	<i>3.44</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>19.91</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.6</i>	<i>85-120</i>	<i>19.38</i>	<i>2.7</i>	<i>30</i>

The following samples were analyzed in this batch:

13041107-02A	13041107-04A	13041107-19A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119761B**      Instrument ID **VMS8**      Method: **SW8260GRO**

<b>MBLK</b>		Sample ID: <b>VBLKW1-130429-R119761B</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/29/2013 01:49 PM</b>		
Client ID:		Run ID: <b>VMS8_130429A</b>				SeqNo: <b>2297125</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	100								
<i>Surr: Toluene-d8</i>	<i>19.18</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.9</i>	<i>70-120</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>VLCSW2-130429-R119761B</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/29/2013 01:01 PM</b>		
Client ID:		Run ID: <b>VMS8_130429A</b>				SeqNo: <b>2297119</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	418.1	100	500	0	83.6	70-130	0			
<i>Surr: Toluene-d8</i>	<i>19.65</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.2</i>	<i>70-130</i>	<i>0</i>			

The following samples were analyzed in this batch:

13041107-02A	13041107-04A	13041107-19A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech  
 Work Order: 13041107  
 Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119867** Instrument ID **VMS9** Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>VBLKW1-130430-R119867</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 01:50 PM</b>		
Client ID:		Run ID: <b>VMS9_130430A</b>				SeqNo: <b>2298341</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	U	1.0								
Surr: 1,2-Dichloroethane-d4	19.91	0	20	0	99.6	70-120	0			
Surr: 4-Bromofluorobenzene	19.42	0	20	0	97.1	75-120	0			
Surr: Dibromofluoromethane	18.04	0	20	0	90.2	85-115	0			
Surr: Toluene-d8	20.24	0	20	0	101	85-120	0			

<b>LCS</b>		Sample ID: <b>VLCSW1-130430-R119867</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 12:59 PM</b>		
Client ID:		Run ID: <b>VMS9_130430A</b>				SeqNo: <b>2298340</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	19.21	1.0	20	0	96	65-135	0			
Surr: 1,2-Dichloroethane-d4	19.58	0	20	0	97.9	70-120	0			
Surr: 4-Bromofluorobenzene	20.1	0	20	0	100	75-120	0			
Surr: Dibromofluoromethane	19.28	0	20	0	96.4	85-115	0			
Surr: Toluene-d8	19.69	0	20	0	98.4	85-120	0			

<b>MS</b>		Sample ID: <b>13041056-07A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/30/2013 11:38 PM</b>		
Client ID:		Run ID: <b>VMS9_130430A</b>				SeqNo: <b>2298800</b>		Prep Date:		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	87.4	5.0	100	0	87.4	65-135	0			
Surr: 1,2-Dichloroethane-d4	97.2	0	100	0	97.2	70-120	0			
Surr: 4-Bromofluorobenzene	99.55	0	100	0	99.6	75-120	0			
Surr: Dibromofluoromethane	94.95	0	100	0	95	85-115	0			
Surr: Toluene-d8	98.95	0	100	0	99	85-120	0			

<b>MSD</b>		Sample ID: <b>13041056-07A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/1/2013 12:04 PM</b>		
Client ID:		Run ID: <b>VMS9_130430A</b>				SeqNo: <b>2298802</b>		Prep Date:		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	87.3	5.0	100	0	87.3	65-135	87.4	0.114	30	
Surr: 1,2-Dichloroethane-d4	97.65	0	100	0	97.6	70-120	97.2	0.462	30	
Surr: 4-Bromofluorobenzene	101.4	0	100	0	101	75-120	99.55	1.79	30	
Surr: Dibromofluoromethane	95.6	0	100	0	95.6	85-115	94.95	0.682	30	
Surr: Toluene-d8	99	0	100	0	99	85-120	98.95	0.0505	30	

The following samples were analyzed in this batch:

13041107-19A

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119892**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKS1-130430-R119892</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/30/2013 03:54 PM</b>		
Client ID:		Run ID: <b>VMS7_130430A</b>				SeqNo: <b>2299423</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	U	5.0								
o-Xylene	U	2.5								
Styrene	U	5.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119892</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	10						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	5.0						
Xylenes, Total	U	5.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.51</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>17.19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>86</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.59</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.2</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119892**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>VLCSS1-130430-R119892</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>4/30/2013 02:47 PM</b>			
Client ID:		Run ID: <b>VMS7_130430A</b>		SeqNo: <b>2299411</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.01	5.0	20	0	80	70-135	0			
1,1,2,2-Tetrachloroethane	14.89	5.0	20	0	74.4	55-130	0			
1,1,2-Trichloroethane	14.6	5.0	20	0	73	60-125	0			
1,1-Dichloroethane	15.15	5.0	20	0	75.8	75-125	0			
1,1-Dichloroethene	14.24	5.0	20	0	71.2	65-135	0			
1,2,4-Trichlorobenzene	15.87	5.0	20	0	79.4	65-130	0			
1,2-Dibromo-3-chloropropane	13.97	5.0	20	0	69.8	40-135	0			
1,2-Dibromoethane	16.74	5.0	20	0	83.7	70-125	0			
1,2-Dichlorobenzene	15.59	5.0	20	0	78	75-120	0			
1,2-Dichloroethane	15.68	5.0	20	0	78.4	70-135	0			
1,2-Dichloropropane	15.67	5.0	20	0	78.4	70-120	0			
1,3-Dichlorobenzene	15.36	5.0	20	0	76.8	70-125	0			
1,4-Dichlorobenzene	15.44	5.0	20	0	77.2	70-125	0			
2-Butanone	15.69	10	20	0	78.4	30-160	0			
2-Hexanone	14.81	5.0	20	0	74	45-145	0			
4-Methyl-2-pentanone	20.53	5.0	20	0	103	45-145	0			
Acetone	29.77	10	20	0	149	20-160	0			
Benzene	16.16	5.0	20	0	80.8	75-125	0			
Bromodichloromethane	15.93	5.0	20	0	79.6	70-130	0			
Bromoform	14.53	5.0	20	0	72.6	55-135	0			
Bromomethane	15.33	10	20	0	76.6	30-160	0			
Carbon disulfide	15.21	5.0	20	0	76	45-160	0			
Carbon tetrachloride	17.54	5.0	20	0	87.7	65-135	0			
Chlorobenzene	16.48	5.0	20	0	82.4	75-125	0			
Chloroethane	12.25	5.0	20	0	61.2	40-155	0			
Chloroform	15.73	5.0	20	0	78.6	70-125	0			
Chloromethane	12.07	10	20	0	60.4	50-130	0			
cis-1,2-Dichloroethene	14.97	5.0	20	0	74.8	65-125	0			
cis-1,3-Dichloropropene	15.88	5.0	20	0	79.4	70-125	0			
Dibromochloromethane	15	5.0	20	0	75	65-135	0			
Dichlorodifluoromethane	9.66	10	20	0	48.3	35-135	0			J
Ethylbenzene	16.16	5.0	20	0	80.8	75-125	0			
Isopropylbenzene	16	5.0	20	0	80	75-130	0			
m,p-Xylene	32.24	2.5	40	0	80.6	80-125	0			
Methyl tert-butyl ether	18.06	5.0	20	0	90.3	75-125	0			
Methylene chloride	12.45	5.0	20	0	62.2	55-140	0			
o-Xylene	16	2.5	20	0	80	75-125	0			
Styrene	14.1	5.0	20	0	70.5	75-125	0			S
Tetrachloroethene	16.5	5.0	20	0	82.5	65-140	0			
Toluene	15.88	5.0	20	0	79.4	70-125	0			
trans-1,2-Dichloroethene	15.76	5.0	20	0	78.8	65-135	0			
trans-1,3-Dichloropropene	15.47	10	20	0	77.4	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119892</b>		Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>				
Trichloroethene	17.13	5.0	20	0	85.6	75-125	0	
Trichlorofluoromethane	12.68	5.0	20	0	63.4	25-185	0	
Vinyl chloride	11.38	5.0	20	0	56.9	60-125	0	S
Xylenes, Total	48.24	5.0	60	0	80.4	75-125	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>21.19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>17.93</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>89.6</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>21.42</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>107</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.81</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119892**      Instrument ID **VMS7**      Method: **SW8260**

MS				Sample ID: <b>13041004-01A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>5/1/2013 12:50 PM</b>	
Client ID:				Run ID: <b>VMS7_130430A</b>			SeqNo: <b>2299468</b>		Prep Date:	
									DF: <b>0.977</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.409	4.9	19.54	0	48.2	70-135	0			S
1,1,2,2-Tetrachloroethane	8.07	4.9	19.54	0	41.3	55-130	0			S
1,1,2-Trichloroethane	9.34	4.9	19.54	0	47.8	60-125	0			S
1,1-Dichloroethane	9.194	4.9	19.54	0	47	75-125	0			S
1,1-Dichloroethene	8.559	4.9	19.54	0	43.8	65-135	0			S
1,2,4-Trichlorobenzene	1.954	4.9	19.54	0	10	65-130	0			JS
1,2-Dibromo-3-chloropropane	5.676	4.9	19.54	0	29	40-135	0			S
1,2-Dibromoethane	9.282	4.9	19.54	0	47.5	70-125	0			S
1,2-Dichlorobenzene	3.869	4.9	19.54	0	19.8	75-120	0			JS
1,2-Dichloroethane	10.19	4.9	19.54	0	52.2	70-135	0			S
1,2-Dichloropropane	9.35	4.9	19.54	0	47.8	70-120	0			S
1,3-Dichlorobenzene	4.006	4.9	19.54	0	20.5	70-125	0			JS
1,4-Dichlorobenzene	3.859	4.9	19.54	0	19.8	70-125	0			JS
2-Butanone	17.14	9.8	19.54	2.599	74.4	30-160	0			
2-Hexanone	7.308	4.9	19.54	0	37.4	45-145	0			S
4-Methyl-2-pentanone	10.06	4.9	19.54	0	51.5	45-145	0			
Acetone	26.05	9.8	19.54	24.64	7.2	20-160	0			S
Benzene	10.48	4.9	19.54	0	53.6	75-125	0			S
Bromodichloromethane	8.832	4.9	19.54	0	45.2	70-130	0			S
Bromoform	6.722	4.9	19.54	0	34.4	55-135	0			S
Bromomethane	5.139	9.8	19.54	0	26.3	30-160	0			JS
Carbon disulfide	8.06	4.9	19.54	0.152	40.5	45-160	0			S
Carbon tetrachloride	10.42	4.9	19.54	0	53.4	65-135	0			S
Chlorobenzene	6.575	4.9	19.54	0	33.6	75-125	0			S
Chloroethane	7.249	4.9	19.54	0	37.1	40-155	0			S
Chloroform	9.496	4.9	19.54	0	48.6	70-125	0			S
Chloromethane	4.924	9.8	19.54	0	25.2	50-130	0			JS
cis-1,2-Dichloroethene	8.588	4.9	19.54	0	44	65-125	0			S
cis-1,3-Dichloropropene	6.78	4.9	19.54	0	34.7	70-125	0			S
Dibromochloromethane	7.65	4.9	19.54	0	39.2	65-135	0			S
Dichlorodifluoromethane	5.344	9.8	19.54	0	27.4	35-135	0			JS
Ethylbenzene	7.826	4.9	19.54	0	40	75-125	0			S
Isopropylbenzene	7.269	4.9	19.54	0	37.2	75-130	0			S
m,p-Xylene	15.59	2.4	39.08	0	39.9	80-125	0			S
Methyl tert-butyl ether	9.75	4.9	19.54	0	49.9	75-125	0			S
Methylene chloride	7.728	4.9	19.54	0	39.6	55-140	0			S
o-Xylene	7.328	2.4	19.54	0	37.5	75-125	0			S
Styrene	5.237	4.9	19.54	0	26.8	75-125	0			S
Tetrachloroethene	9.487	4.9	19.54	0	48.6	65-140	0			S
Toluene	14.17	4.9	19.54	0.3952	70.5	70-125	0			
trans-1,2-Dichloroethene	8.92	4.9	19.54	0	45.6	65-135	0			S
trans-1,3-Dichloropropene	6.018	9.8	19.54	0	30.8	65-125	0			JS

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119892</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>					
Trichloroethene	9.125	4.9	19.54	0	46.7	75-125	0	S
Trichlorofluoromethane	8.05	4.9	19.54	0	41.2	25-185	0	
Vinyl chloride	5.96	4.9	19.54	0	30.5	60-125	0	S
Xylenes, Total	22.92	4.9	58.62	0	39.1	75-125	0	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>21.35</i>	<i>0</i>	<i>19.54</i>	<i>0</i>	<i>109</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>16.29</i>	<i>0</i>	<i>19.54</i>	<i>0</i>	<i>83.4</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.53</i>	<i>0</i>	<i>19.54</i>	<i>0</i>	<i>105</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>18.76</i>	<i>0</i>	<i>19.54</i>	<i>0</i>	<i>96</i>	<i>85-120</i>	<i>0</i>	

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



Client: Tetra Tech  
 Work Order: 13041107  
 Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119892** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: <b>13041004-01A MSD</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/1/2013 01:18 AM</b>			
Client ID:		Run ID: <b>VMS7_130430A</b>		SeqNo: <b>2299458</b>		Prep Date:		DF: <b>0.984</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.22	4.9	19.68	0	77.4	70-135	9.409	47.2	30	R
1,1,2,2-Tetrachloroethane	8.994	4.9	19.68	0	45.7	55-130	8.07	10.8	30	S
1,1,2-Trichloroethane	11.07	4.9	19.68	0	56.2	60-125	9.34	17	30	S
1,1-Dichloroethane	13.55	4.9	19.68	0	68.8	75-125	9.194	38.3	30	SR
1,1-Dichloroethene	13.74	4.9	19.68	0	69.8	65-135	8.559	46.5	30	R
1,2,4-Trichlorobenzene	3.424	4.9	19.68	0	17.4	65-130	1.954	0	30	JS
1,2-Dibromo-3-chloropropane	6.947	4.9	19.68	0	35.3	40-135	5.676	20.1	30	S
1,2-Dibromoethane	11.12	4.9	19.68	0	56.5	70-125	9.282	18	30	S
1,2-Dichlorobenzene	6.091	4.9	19.68	0	31	75-120	3.869	44.6	30	SR
1,2-Dichloroethane	12.6	4.9	19.68	0	64	70-135	10.19	21.1	30	S
1,2-Dichloropropane	12.74	4.9	19.68	0	64.8	70-120	9.35	30.7	30	SR
1,3-Dichlorobenzene	7.016	4.9	19.68	0	35.6	70-125	4.006	54.6	30	SR
1,4-Dichlorobenzene	6.485	4.9	19.68	0	33	70-125	3.859	50.8	30	SR
2-Butanone	16.25	9.8	19.68	2.599	69.3	30-160	17.14	5.34	30	
2-Hexanone	6.494	4.9	19.68	0	33	45-145	7.308	11.8	30	S
4-Methyl-2-pentanone	10.24	4.9	19.68	0	52	45-145	10.06	1.78	30	
Acetone	26.85	9.8	19.68	24.64	11.3	20-160	26.05	3.05	30	S
Benzene	15.01	4.9	19.68	0	76.2	75-125	10.48	35.5	30	R
Bromodichloromethane	11.98	4.9	19.68	0	60.8	70-130	8.832	30.2	30	SR
Bromoform	7.783	4.9	19.68	0	39.6	55-135	6.722	14.6	30	S
Bromomethane	8.974	9.8	19.68	0	45.6	30-160	5.139	0	30	J
Carbon disulfide	12.94	4.9	19.68	0.152	65	45-160	8.06	46.5	30	R
Carbon tetrachloride	17.02	4.9	19.68	0	86.5	65-135	10.42	48.1	30	R
Chlorobenzene	10.8	4.9	19.68	0	54.9	75-125	6.575	48.7	30	SR
Chloroethane	12.09	4.9	19.68	0	61.4	40-155	7.249	50.1	30	R
Chloroform	13.52	4.9	19.68	0	68.7	70-125	9.496	35	30	SR
Chloromethane	7.39	9.8	19.68	0	37.6	50-130	4.924	0	30	JS
cis-1,2-Dichloroethene	12.61	4.9	19.68	0	64.1	65-125	8.588	38	30	SR
cis-1,3-Dichloropropene	9.899	4.9	19.68	0	50.3	70-125	6.78	37.4	30	SR
Dibromochloromethane	9.496	4.9	19.68	0	48.2	65-135	7.65	21.5	30	S
Dichlorodifluoromethane	8.669	9.8	19.68	0	44	35-135	5.344	0	30	J
Ethylbenzene	12.94	4.9	19.68	0	65.8	75-125	7.826	49.3	30	SR
Isopropylbenzene	12.7	4.9	19.68	0	64.6	75-130	7.269	54.4	30	SR
m,p-Xylene	25.87	2.5	39.36	0	65.7	80-125	15.59	49.6	30	SR
Methyl tert-butyl ether	12.49	4.9	19.68	0	63.4	75-125	9.75	24.6	30	S
Methylene chloride	10.73	4.9	19.68	0	54.5	55-140	7.728	32.5	30	SR
o-Xylene	11.77	2.5	19.68	0	59.8	75-125	7.328	46.5	30	SR
Styrene	8.925	4.9	19.68	0	45.4	75-125	5.237	52.1	30	SR
Tetrachloroethene	16.5	4.9	19.68	0	83.8	65-140	9.487	54	30	R
Toluene	18.24	4.9	19.68	0.3952	90.7	70-125	14.17	25.2	30	
trans-1,2-Dichloroethene	14	4.9	19.68	0	71.2	65-135	8.92	44.3	30	R
trans-1,3-Dichloropropene	8.63	9.8	19.68	0	43.8	65-125	6.018	0	30	JS

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R119892</b>	Instrument ID <b>VMS7</b>			Method: <b>SW8260</b>						
Trichloroethene	15.17	4.9	19.68	0	77.1	75-125	9.125	49.8	30	R
Trichlorofluoromethane	13.31	4.9	19.68	0	67.6	25-185	8.05	49.3	30	R
Vinyl chloride	9.997	4.9	19.68	0	50.8	60-125	5.96	50.6	30	SR
Xylenes, Total	37.64	4.9	59.04	0	63.8	75-125	22.92	48.6	30	SR
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>21.98</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>112</i>	<i>70-120</i>	<i>21.35</i>	<i>2.93</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>16.51</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>83.9</i>	<i>75-120</i>	<i>16.29</i>	<i>1.37</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>21.18</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>108</i>	<i>85-115</i>	<i>20.53</i>	<i>3.11</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>19.47</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>99</i>	<i>85-120</i>	<i>18.76</i>	<i>3.74</i>	<i>30</i>	

The following samples were analyzed in this batch:

13041107-11A	13041107-16A	13041107-17A
13041107-18A	13041107-20A	13041107-21A
13041107-22A	13041107-23A	13041107-26A

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120046**      Instrument ID **VMS8**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKW2-130502-R120046</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 02:43 AM</b>		
Client ID:		Run ID: <b>VMS8_130502B</b>				SeqNo: <b>2303128</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
o-Xylene	U	1.0								
Styrene	U	1.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R120046</b>	Instrument ID <b>VMS8</b>	Method: <b>SW8260</b>						
Tetrachloroethene	U	2.0						
Toluene	U	1.0						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>17.89</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>89.4</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.03</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.2</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.09</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>20.46</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120046**      Instrument ID **VMS8**      Method: **SW8260**

LCS		Sample ID: <b>VLCSW2-130502-R120046</b>				Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 01:56 AM</b>		
Client ID:		Run ID: <b>VMS8_130502B</b>				SeqNo: <b>2303127</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.69	1.0	20	0	93.4	65-130	0			
1,1,2,2-Tetrachloroethane	21.3	1.0	20	0	106	65-130	0			
1,1,2-Trichloroethane	20.6	1.0	20	0	103	75-125	0			
1,1-Dichloroethane	16.35	1.0	20	0	81.8	70-135	0			
1,1-Dichloroethene	14.97	1.0	20	0	74.8	70-130	0			
1,2,4-Trichlorobenzene	22.88	1.0	20	0	114	65-135	0			
1,2-Dibromo-3-chloropropane	23.32	1.0	20	0	117	50-130	0			
1,2-Dibromoethane	21.36	1.0	20	0	107	80-120	0			
1,2-Dichlorobenzene	20.47	1.0	20	0	102	70-120	0			
1,2-Dichloroethane	17.63	1.0	20	0	88.2	70-130	0			
1,2-Dichloropropane	19.13	2.0	20	0	95.6	75-125	0			
1,3-Dichlorobenzene	20.28	2.0	20	0	101	75-125	0			
1,4-Dichlorobenzene	20.32	2.0	20	0	102	75-125	0			
2-Butanone	19.68	5.0	20	0	98.4	30-150	0			
2-Hexanone	21.36	5.0	20	0	107	55-130	0			
4-Methyl-2-pentanone	27.52	5.0	20	0	138	60-135	0			S
Acetone	21.81	20	20	0	109	40-140	0			
Benzene	18.53	1.0	20	0	92.6	80-120	0			
Bromodichloromethane	19.33	1.0	20	0	96.6	75-120	0			
Bromoform	22.14	1.0	20	0	111	70-130	0			
Bromomethane	20.39	1.0	20	0	102	30-145	0			
Carbon disulfide	16.88	2.5	20	0	84.4	35-165	0			
Carbon tetrachloride	18.68	1.0	20	0	93.4	65-140	0			
Chlorobenzene	20.33	1.0	20	0	102	80-120	0			
Chloroethane	15.16	1.0	20	0	75.8	60-135	0			
Chloroform	16.75	1.0	20	0	83.8	65-135	0			
Chloromethane	13.62	1.0	20	0	68.1	70-125	0			S
cis-1,2-Dichloroethene	16.7	1.0	20	0	83.5	70-125	0			
cis-1,3-Dichloropropene	19.22	1.0	20	0	96.1	70-130	0			
Dibromochloromethane	20.33	1.0	20	0	102	60-135	0			
Dichlorodifluoromethane	11.43	1.0	20	0	57.2	30-155	0			
Ethylbenzene	19.53	1.0	20	0	97.6	75-125	0			
Isopropylbenzene	19.88	1.0	20	0	99.4	75-125	0			
m,p-Xylene	38.71	2.0	40	0	96.8	75-130	0			
Methyl tert-butyl ether	19.76	5.0	20	0	98.8	65-125	0			
Methylene chloride	15.48	5.0	20	0	77.4	55-140	0			
o-Xylene	20.13	1.0	20	0	101	80-120	0			
Styrene	21.78	1.0	20	0	109	65-135	0			
Tetrachloroethene	21.9	2.0	20	0	110	45-150	0			
Toluene	18.78	1.0	20	0	93.9	75-120	0			
trans-1,2-Dichloroethene	16.21	1.0	20	0	81	60-140	0			
trans-1,3-Dichloropropene	18.91	1.0	20	0	94.6	55-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

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Batch ID: <b>R120046</b>	Instrument ID <b>VMS8</b>		Method: <b>SW8260</b>				
Trichloroethene	20.86	1.0	20	0	104	70-125	0
Trichlorofluoromethane	16.59	1.0	20	0	83	60-145	0
Vinyl chloride	14.44	1.0	20	0	72.2	50-145	0
Xylenes, Total	58.84	3.0	60	0	98.1	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.49</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.74</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.43</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-120</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120046**      Instrument ID **VMS8**      Method: **SW8260**

MS				Sample ID: <b>1305095-02A MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>5/3/2013 11:21 AM</b>	
Client ID:				Run ID: <b>VMS8_130502B</b>			SeqNo: <b>2303153</b>		Prep Date:	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.92	1.0	20	0	99.6	65-130	0			
1,1,2,2-Tetrachloroethane	21.83	1.0	20	0	109	65-130	0			
1,1,2-Trichloroethane	19.96	1.0	20	0	99.8	75-125	0			
1,1-Dichloroethane	16.74	1.0	20	0	83.7	70-135	0			
1,1-Dichloroethene	16.59	1.0	20	0	83	70-130	0			
1,2,4-Trichlorobenzene	20.31	1.0	20	0	102	65-135	0			
1,2-Dibromo-3-chloropropane	24.19	1.0	20	0	121	50-130	0			
1,2-Dibromoethane	21.27	1.0	20	0	106	80-120	0			
1,2-Dichlorobenzene	19.77	1.0	20	0	98.8	70-120	0			
1,2-Dichloroethane	17.23	1.0	20	0	86.2	70-130	0			
1,2-Dichloropropane	18.81	2.0	20	0	94	75-125	0			
1,3-Dichlorobenzene	19.57	2.0	20	0	97.8	75-125	0			
1,4-Dichlorobenzene	19.63	2.0	20	0	98.2	75-125	0			
2-Butanone	20.93	5.0	20	0	105	30-150	0			
2-Hexanone	22.64	5.0	20	0	113	55-130	0			
4-Methyl-2-pentanone	28.96	5.0	20	0	145	60-135	0			S
Acetone	26.07	20	20	0	130	40-140	0			
Benzene	21.03	1.0	20	2.13	94.5	80-120	0			
Bromodichloromethane	18.57	1.0	20	0	92.8	75-120	0			
Bromoform	21.65	1.0	20	0	108	70-130	0			
Bromomethane	18.74	1.0	20	0	93.7	30-145	0			
Carbon disulfide	18.15	2.5	20	0	90.8	35-165	0			
Carbon tetrachloride	20.3	1.0	20	0	102	65-140	0			
Chlorobenzene	20.29	1.0	20	0	101	80-120	0			
Chloroethane	16.01	1.0	20	0	80	60-135	0			
Chloroform	16.8	1.0	20	0	84	65-135	0			
Chloromethane	13.82	1.0	20	0	69.1	70-125	0			S
cis-1,2-Dichloroethene	16.64	1.0	20	0	83.2	70-125	0			
cis-1,3-Dichloropropene	18.2	1.0	20	0	91	70-130	0			
Dibromochloromethane	19.65	1.0	20	0	98.2	60-135	0			
Dichlorodifluoromethane	13.08	1.0	20	0	65.4	30-155	0			
Ethylbenzene	19.92	1.0	20	0	99.6	75-125	0			
Isopropylbenzene	20.72	1.0	20	0	104	75-125	0			
m,p-Xylene	39.54	2.0	40	0	98.8	75-130	0			
Methyl tert-butyl ether	19.67	5.0	20	0	98.4	65-125	0			
Methylene chloride	14.92	5.0	20	0	74.6	55-140	0			
o-Xylene	19.85	1.0	20	0	99.2	80-120	0			
Styrene	21.03	1.0	20	0	105	65-135	0			
Tetrachloroethene	23.52	2.0	20	0	118	45-150	0			
Toluene	19.34	1.0	20	0	96.7	75-120	0			
trans-1,2-Dichloroethene	17.02	1.0	20	0	85.1	60-140	0			
trans-1,3-Dichloropropene	17.77	1.0	20	0	88.8	55-140	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R120046</b>		Instrument ID <b>VMS8</b>		Method: <b>SW8260</b>			
Trichloroethene	22.14	1.0	20	0	111	70-125	0
Trichlorofluoromethane	19.34	1.0	20	0	96.7	60-145	0
Vinyl chloride	16.51	1.0	20	0	82.6	50-145	0
Xylenes, Total	59.39	3.0	60	0	99	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.31</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.6</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.66</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>0</i>

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120046**      Instrument ID **VMS8**      Method: **SW8260**

MSD						Sample ID: 1305095-02A MSD		Units: µg/L		Analysis Date: 5/3/2013 11:45 AM	
Client ID:			Run ID: VMS8_130502B			SeqNo: 2303154		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	20.27	1.0	20	0	101	65-130	19.92	1.74	30		
1,1,2,2-Tetrachloroethane	21.25	1.0	20	0	106	65-130	21.83	2.69	30		
1,1,2-Trichloroethane	20.35	1.0	20	0	102	75-125	19.96	1.94	30		
1,1-Dichloroethane	16.85	1.0	20	0	84.2	70-135	16.74	0.655	30		
1,1-Dichloroethene	16.56	1.0	20	0	82.8	70-130	16.59	0.181	30		
1,2,4-Trichlorobenzene	21.11	1.0	20	0	106	65-135	20.31	3.86	30		
1,2-Dibromo-3-chloropropane	23.74	1.0	20	0	119	50-130	24.19	1.88	30		
1,2-Dibromoethane	21.05	1.0	20	0	105	80-120	21.27	1.04	30		
1,2-Dichlorobenzene	20.52	1.0	20	0	103	70-120	19.77	3.72	30		
1,2-Dichloroethane	17.09	1.0	20	0	85.4	70-130	17.23	0.816	30		
1,2-Dichloropropane	18.48	2.0	20	0	92.4	75-125	18.81	1.77	30		
1,3-Dichlorobenzene	20.19	2.0	20	0	101	75-125	19.57	3.12	30		
1,4-Dichlorobenzene	20.17	2.0	20	0	101	75-125	19.63	2.71	30		
2-Butanone	20.81	5.0	20	0	104	30-150	20.93	0.575	30		
2-Hexanone	22.85	5.0	20	0	114	55-130	22.64	0.923	30		
4-Methyl-2-pentanone	29.18	5.0	20	0	146	60-135	28.96	0.757	30	S	
Acetone	25.78	20	20	0	129	40-140	26.07	1.12	30		
Benzene	21.17	1.0	20	2.13	95.2	80-120	21.03	0.664	30		
Bromodichloromethane	18.81	1.0	20	0	94	75-120	18.57	1.28	30		
Bromoform	21.62	1.0	20	0	108	70-130	21.65	0.139	30		
Bromomethane	17.91	1.0	20	0	89.6	30-145	18.74	4.53	30		
Carbon disulfide	18.18	2.5	20	0	90.9	35-165	18.15	0.165	30		
Carbon tetrachloride	20.7	1.0	20	0	104	65-140	20.3	1.95	30		
Chlorobenzene	20.26	1.0	20	0	101	80-120	20.29	0.148	30		
Chloroethane	15.43	1.0	20	0	77.2	60-135	16.01	3.69	30		
Chloroform	16.51	1.0	20	0	82.6	65-135	16.8	1.74	30		
Chloromethane	14.09	1.0	20	0	70.4	70-125	13.82	1.93	30		
cis-1,2-Dichloroethene	16.13	1.0	20	0	80.6	70-125	16.64	3.11	30		
cis-1,3-Dichloropropene	18.35	1.0	20	0	91.8	70-130	18.2	0.821	30		
Dibromochloromethane	19.77	1.0	20	0	98.8	60-135	19.65	0.609	30		
Dichlorodifluoromethane	13.22	1.0	20	0	66.1	30-155	13.08	1.06	30		
Ethylbenzene	20.24	1.0	20	0	101	75-125	19.92	1.59	30		
Isopropylbenzene	20.49	1.0	20	0	102	75-125	20.72	1.12	30		
m,p-Xylene	39.81	2.0	40	0	99.5	75-130	39.54	0.681	30		
Methyl tert-butyl ether	19.49	5.0	20	0	97.4	65-125	19.67	0.919	30		
Methylene chloride	14.95	5.0	20	0	74.8	55-140	14.92	0.201	30		
o-Xylene	20.05	1.0	20	0	100	80-120	19.85	1	30		
Styrene	21.47	1.0	20	0	107	65-135	21.03	2.07	30		
Tetrachloroethene	23.25	2.0	20	0	116	45-150	23.52	1.15	30		
Toluene	19.14	1.0	20	0	95.7	75-120	19.34	1.04	30		
trans-1,2-Dichloroethene	16.89	1.0	20	0	84.4	60-140	17.02	0.767	30		
trans-1,3-Dichloropropene	17.88	1.0	20	0	89.4	55-140	17.77	0.617	30		

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R120046</b>	Instrument ID <b>VMS8</b>			Method: <b>SW8260</b>					
Trichloroethene	21.64	1.0	20	0	108	70-125	22.14	2.28	30
Trichlorofluoromethane	19.09	1.0	20	0	95.4	60-145	19.34	1.3	30
Vinyl chloride	16.79	1.0	20	0	84	50-145	16.51	1.68	30
Xylenes, Total	59.86	3.0	60	0	99.8	75-130	59.39	0.788	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.42</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92.1</i>	<i>70-120</i>	<i>18.24</i>	<i>0.982</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.38</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.9</i>	<i>75-120</i>	<i>19.31</i>	<i>0.362</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.72</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>20.66</i>	<i>0.29</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>20.12</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>20.24</i>	<i>0.595</i>	<i>30</i>

The following samples were analyzed in this batch:

13041107-01A	13041107-25A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120174**      Instrument ID **VMS7**      Method: **SW8260**

MBLK		Sample ID: <b>VBLKS1-130505-R120174</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/6/2013 12:33 PM</b>		
Client ID:		Run ID: <b>VMS7_130506A</b>				SeqNo: <b>2306233</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.39	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	8.22	5.0								
o-Xylene	U	2.5								
Styrene	U	5.0								

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R120174</b>	Instrument ID <b>VMS7</b>	Method: <b>SW8260</b>						
Tetrachloroethene	U	5.0						
Toluene	U	5.0						
trans-1,2-Dichloroethene	U	5.0						
trans-1,3-Dichloropropene	U	10						
Trichloroethene	U	5.0						
Trichlorofluoromethane	U	5.0						
Vinyl chloride	U	5.0						
Xylenes, Total	U	5.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.72</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.6</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.59</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>18.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.1</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>18.88</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.4</i>	<i>85-120</i>	<i>0</i>	

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120174**      Instrument ID **VMS7**      Method: **SW8260**

LCS Sample ID: <b>VLCSS1-130506-R120174</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>5/6/2013 11:26 AM</b>			
Client ID:		Run ID: <b>VMS7_130506A</b>		SeqNo: <b>2306230</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.81	5.0	20	0	99	70-135	0			
1,1,2,2-Tetrachloroethane	17.79	5.0	20	0	89	55-130	0			
1,1,2-Trichloroethane	17.1	5.0	20	0	85.5	60-125	0			
1,1-Dichloroethane	19.09	5.0	20	0	95.4	75-125	0			
1,1-Dichloroethene	20.1	5.0	20	0	100	65-135	0			
1,2,4-Trichlorobenzene	19.81	5.0	20	0	99	65-130	0			
1,2-Dibromo-3-chloropropane	18.36	5.0	20	0	91.8	40-135	0			
1,2-Dibromoethane	20.07	5.0	20	0	100	70-125	0			
1,2-Dichlorobenzene	18.7	5.0	20	0	93.5	75-120	0			
1,2-Dichloroethane	18.29	5.0	20	0	91.4	70-135	0			
1,2-Dichloropropane	18.8	5.0	20	0	94	70-120	0			
1,3-Dichlorobenzene	19.01	5.0	20	0	95	70-125	0			
1,4-Dichlorobenzene	18.87	5.0	20	0	94.4	70-125	0			
2-Butanone	20.17	10	20	0	101	30-160	0			
2-Hexanone	17.88	5.0	20	0	89.4	45-145	0			
4-Methyl-2-pentanone	22.05	5.0	20	0	110	45-145	0			
Acetone	21.68	10	20	0	108	20-160	0			
Benzene	19.74	5.0	20	0	98.7	75-125	0			
Bromodichloromethane	18.14	5.0	20	0	90.7	70-130	0			
Bromoform	16.71	5.0	20	0	83.6	55-135	0			
Bromomethane	22.59	10	20	0	113	30-160	0			
Carbon disulfide	22	5.0	20	0	110	45-160	0			
Carbon tetrachloride	22.04	5.0	20	0	110	65-135	0			
Chlorobenzene	18.44	5.0	20	0	92.2	75-125	0			
Chloroethane	23.39	5.0	20	0	117	40-155	0			
Chloroform	20.6	5.0	20	0	103	70-125	0			
Chloromethane	26.3	10	20	0	132	50-130	0			S
cis-1,2-Dichloroethene	18.88	5.0	20	0	94.4	65-125	0			
cis-1,3-Dichloropropene	18.53	5.0	20	0	92.6	70-125	0			
Dibromochloromethane	17.31	5.0	20	0	86.6	65-135	0			
Dichlorodifluoromethane	31.81	10	20	0	159	35-135	0			S
Ethylbenzene	19.07	5.0	20	0	95.4	75-125	0			
Isopropylbenzene	18.83	5.0	20	0	94.2	75-130	0			
m,p-Xylene	38.61	2.5	40	0	96.5	80-125	0			
Methyl tert-butyl ether	16.05	5.0	20	0	80.2	75-125	0			
Methylene chloride	29.2	5.0	20	0	146	55-140	0			BS
o-Xylene	18.88	2.5	20	0	94.4	75-125	0			
Styrene	18.8	5.0	20	0	94	75-125	0			
Tetrachloroethene	19.5	5.0	20	0	97.5	65-140	0			
Toluene	18.78	5.0	20	0	93.9	70-125	0			
trans-1,2-Dichloroethene	20.24	5.0	20	0	101	65-135	0			
trans-1,3-Dichloropropene	18.39	10	20	0	92	65-125	0			

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R120174</b>	Instrument ID <b>VMS7</b>			Method: <b>SW8260</b>			
Trichloroethene	19.89	5.0	20	0	99.4	75-125	0
Trichlorofluoromethane	18.96	5.0	20	0	94.8	25-185	0
Vinyl chloride	22.27	5.0	20	0	111	60-125	0
Xylenes, Total	57.49	5.0	60	0	95.8	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.04</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.98</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.9</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.09</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R120174**      Instrument ID **VMS7**      Method: **SW8260**

MS				Sample ID: <b>13041167-04A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>5/6/2013 09:29 PM</b>	
Client ID:				Run ID: <b>VMS7_130506A</b>			SeqNo: <b>2307338</b>		Prep Date:	
									DF: <b>0.984</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	11.59	4.9	19.68	0	58.9	70-135	0			S
1,1,2,2-Tetrachloroethane	10.68	4.9	19.68	0	54.2	55-130	0			S
1,1,2-Trichloroethane	12.18	4.9	19.68	0	61.9	60-125	0			
1,1-Dichloroethane	13.53	4.9	19.68	0	68.8	75-125	0			S
1,1-Dichloroethene	12.12	4.9	19.68	0	61.6	65-135	0			S
1,2,4-Trichlorobenzene	3.631	4.9	19.68	0	18.4	65-130	0			JS
1,2-Dibromo-3-chloropropane	8.659	4.9	19.68	0	44	40-135	0			
1,2-Dibromoethane	11.71	4.9	19.68	0	59.5	70-125	0			S
1,2-Dichlorobenzene	5.845	4.9	19.68	0	29.7	75-120	0			S
1,2-Dichloroethane	12.92	4.9	19.68	0	65.6	70-135	0			S
1,2-Dichloropropane	12.38	4.9	19.68	0	62.9	70-120	0			S
1,3-Dichlorobenzene	5.697	4.9	19.68	0	29	70-125	0			S
1,4-Dichlorobenzene	5.442	4.9	19.68	0	27.6	70-125	0			S
2-Butanone	53.91	9.8	19.68	9.417	226	30-160	0			S
2-Hexanone	12.55	4.9	19.68	0	63.8	45-145	0			
4-Methyl-2-pentanone	17.22	4.9	19.68	0	87.5	45-145	0			
Acetone	U	9.8	19.68	37.44	-190	20-160	0			S
Benzene	12.05	4.9	19.68	0.4642	58.9	75-125	0			S
Bromodichloromethane	10.5	4.9	19.68	0	53.4	70-130	0			S
Bromoform	7.223	4.9	19.68	0	36.7	55-135	0			S
Bromomethane	19.12	9.8	19.68	0	97.2	30-160	0			
Carbon disulfide	11.65	4.9	19.68	0.5969	56.2	45-160	0			
Carbon tetrachloride	11.28	4.9	19.68	0	57.3	65-135	0			S
Chlorobenzene	8.177	4.9	19.68	0	41.6	75-125	0			S
Chloroethane	18.32	4.9	19.68	0	93.1	40-155	0			
Chloroform	13.96	4.9	19.68	0.5057	68.4	70-125	0			S
Chloromethane	19.66	9.8	19.68	0	99.9	50-130	0			
cis-1,2-Dichloroethene	12.2	4.9	19.68	0	62	65-125	0			S
cis-1,3-Dichloropropene	9.81	4.9	19.68	0	49.8	70-125	0			S
Dibromochloromethane	8.384	4.9	19.68	0	42.6	65-135	0			S
Dichlorodifluoromethane	31.62	9.8	19.68	0	161	35-135	0			S
Ethylbenzene	8.817	4.9	19.68	0.1741	43.9	75-125	0			S
Isopropylbenzene	8.138	4.9	19.68	0	41.4	75-130	0			S
m,p-Xylene	16.55	2.5	39.36	0.1824	41.6	80-125	0			S
Methyl tert-butyl ether	12.2	4.9	19.68	0	62	75-125	0			S
Methylene chloride	17.63	4.9	19.68	0.4974	87.1	55-140	0			B
o-Xylene	8.758	2.5	19.68	0	44.5	75-125	0			S
Styrene	5.678	4.9	19.68	0	28.8	75-125	0			S
Tetrachloroethene	9.978	4.9	19.68	0	50.7	65-140	0			S
Toluene	10.09	4.9	19.68	0.4477	49	70-125	0			S
trans-1,2-Dichloroethene	11.22	4.9	19.68	0	57	65-135	0			S
trans-1,3-Dichloropropene	8.758	9.8	19.68	0	44.5	65-125	0			JS

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: <b>R120174</b>	Instrument ID <b>VMS7</b>		Method: <b>SW8260</b>					
Trichloroethene	10.94	4.9	19.68	0	55.6	75-125	0	S
Trichlorofluoromethane	13.04	4.9	19.68	0	66.2	25-185	0	
Vinyl chloride	16.92	4.9	19.68	0	86	60-125	0	
Xylenes, Total	25.31	4.9	59.04	0.1824	42.6	75-125	0	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.53</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>104</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.8</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>95.6</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.91</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.98</i>	<i>0</i>	<i>19.68</i>	<i>0</i>	<i>102</i>	<i>85-120</i>	<i>0</i>	

The following samples were analyzed in this batch:

13041107-  
12A

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



**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119750**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>		Sample ID: <b>WBLKS-R119750</b>				Units: % of sample		Analysis Date: <b>4/28/2013 02:09 PM</b>		
Client ID:		Run ID: <b>MOIST_130428C</b>				SeqNo: <b>2295500</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      U      0.050

<b>LCS</b>		Sample ID: <b>LCS-R119750</b>				Units: % of sample		Analysis Date: <b>4/28/2013 02:09 PM</b>		
Client ID:		Run ID: <b>MOIST_130428C</b>				SeqNo: <b>2295489</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      100      0.050      100      0      100      99.5-100.5      0

<b>DUP</b>		Sample ID: <b>13041107-13BDUP</b>				Units: % of sample		Analysis Date: <b>4/28/2013 02:09 PM</b>		
Client ID: <b>LCBP-SS-005</b>		Run ID: <b>MOIST_130428C</b>				SeqNo: <b>2295457</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      15.54      0.050      0      0      0      0-0      17.85      13.8      20

<b>DUP</b>		Sample ID: <b>13041141-12ADUP</b>				Units: % of sample		Analysis Date: <b>4/28/2013 02:09 PM</b>		
Client ID:		Run ID: <b>MOIST_130428C</b>				SeqNo: <b>2295482</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      39.19      0.050      0      0      0      0-0      37.48      4.46      20

The following samples were analyzed in this batch:

13041107-03B	13041107-05B	13041107-06B
13041107-07B	13041107-09B	13041107-10B
13041107-11B	13041107-12B	13041107-13B
13041107-14B	13041107-15B	13041107-16B
13041107-17B	13041107-18B	13041107-20B
13041107-21B	13041107-22B	

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

Client: Tetra Tech  
 Work Order: 13041107  
 Project: Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119865** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R119865					Units: % of sample			Analysis Date: 4/29/2013 01:40 PM		
Client ID:		Run ID: MOIST_130429B				SeqNo: 2297788		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.050

LCS	Sample ID: LCS-R119865					Units: % of sample		Analysis Date: 4/29/2013 01:40 PM		
Client ID:		Run ID: MOIST_130429B			SeqNo: 2297787		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 13041050-01ADUP					Units: % of sample		Analysis Date: 4/29/2013 01:40 PM		
Client ID:				Run ID: MOIST_130429B		SeqNo: 2297768		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.69 0.050 0 0 0 0-0 17.15 15.5 20

DUP	Sample ID: 13041130-11BDUP					Units: % of sample			Analysis Date: 4/29/2013 01:40 PM		
Client ID:			Run ID: MOIST_130429B			SeqNo: 2297786		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 12.38 0.050 0 0 0 0-0 10.7 14.6 20

The following samples were analyzed in this batch:

13041107-08B

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

**Client:** Tetra Tech  
**Work Order:** 13041107  
**Project:** Municipal Farms Lafarge Concrete Plt 4.23-4.24.13

## QC BATCH REPORT

Batch ID: **R119877**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>	Sample ID: <b>WBLKS-R119877</b>				Units: % of sample			Analysis Date: <b>4/29/2013 03:00 PM</b>		
Client ID:	Run ID: <b>MOIST_130429D</b>				SeqNo: <b>2298131</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      U      0.050

<b>LCS</b>	Sample ID: <b>LCS-R119877</b>				Units: % of sample			Analysis Date: <b>4/29/2013 03:00 PM</b>		
Client ID:	Run ID: <b>MOIST_130429D</b>				SeqNo: <b>2298130</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      100      0.050      100      0      100      99.5-100.5      0

<b>DUP</b>	Sample ID: <b>13041049-66BDUP</b>				Units: % of sample			Analysis Date: <b>4/29/2013 03:00 PM</b>		
Client ID:	Run ID: <b>MOIST_130429D</b>				SeqNo: <b>2298109</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      11.63      0.050      0      0      0      0-0      13.24      12.9      20

<b>DUP</b>	Sample ID: <b>13041167-01BDUP</b>				Units: % of sample			Analysis Date: <b>4/29/2013 03:00 PM</b>		
Client ID:	Run ID: <b>MOIST_130429D</b>				SeqNo: <b>2298124</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      12.6      0.050      0      0      0      0-0      13.86      9.52      20

The following samples were analyzed in this batch:

13041107-23B

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



# Environmental

Cincinnati, OH  
+1 513 733 5336

Everett, WA  
+1 425 356 2600

Fort Collins, CO  
+1 970 490 1511

Holland, MI  
+1 616 399 6070

## Chain of Custody Form

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

COC ID: 69741

Houston, TX  
+1 281 530 5656

Middletown, PA  
+1 717 944 5541

Spring City, PA  
+1 610 948 4903

Salt Lake City, UT  
+1 801 266 7700

South Charleston, WV  
+1 304 356 3168

York, PA  
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager: _____ ALS Work Order #: 13041107																
Parameter/Method Request for Analysis																				
Purchase Order		Project Name	Municipal Farm Lafarge	A	TCL Volatiles with GRO (C6-C10)															
Work Order		Project Number	Concrete Plant	B	SVols with DRO (C10-C21), ORO (C21-C35) <del>13041107</del>															
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	RCRA 8 Metals-Total <del>13041107</del>															
Send Report To	Emily Fisher	Invoice Attn	Emily Fisher	D	% Moisture															
Address	415 Oak Street	Address	415 Oak Street	E	RCRA 8 Metals-Dissolved															
				F	Project Specific MS/MSD on this sample point															
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	TDS Only															
Phone	(816) 412-1755	Phone	(816) 412-1755	H	Lead Only															
Fax	(816) 410-1748	Fax	(816) 410-1748	I	Grain Size															
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	LCBP-WA-001	4/23/13	1320	WA	2-HUB3 3-HCL	7	X	X	X		X						
2	LCBP-SW-001	4/23/13	1340	WA	2-HUB3 3-HCL	7	X	X	X		X						
3	LCBP-SD-001	4/23/13	1355	Sed	2-Met 2-5	6	X	X	X								
4	LCBP-SW-002	4/23/13	1410	WA	2-HUB3 3-HCL	7	X	X	X		X						
5	LCBP-SD-002	4/23/13	1430	Sed	2-Met 2-5	6	X	X	X								
6	LCBP-SS-001	4/24/13	0950	SO		6	X	X	X								
7	LCBP-SS-002	4/24/13	1010	SO		6	X	X	X								
8	LCBP-SS-002A	4/24/13	1020	SO		6	X	X	X								
9	LCBP-SS-003	4/24/13	1130	SO		6	X	X	X								
10	LCBP-SS-003A	4/24/13	1135	SO		6	X	X	X								

Sampler(s) Please Print & Sign <i>Bryan Erickson</i>		Shipment Method Fed Ex		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by:	Date: 4/25/13	Time: 1900	Received by:	FED EX		Notes:			
Relinquished by:	Date: 4/24/13	Time: 1000	Received by (Laboratory):	DPS		Cooler ID		Cooler Temp.	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date: 4/26/13	Time: 1445	Checked by (Laboratory):					502	<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035									

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# Chain of Custody Form

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

COC ID: 69740

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+1 610 948 4903

Salt Lake City, UT  
+1 801 266 7700

South Charleston, WV  
+1 304 356 3168

York, PA  
+1 717 505 5280

ALS Project Manager:

ALS Work Order #: 13041107

## Customer Information

## Project Information

## Parameter/Method Request for Analysis

Purchase Order		Project Name	Municipal Farm Lafarge	A	TCL Volatiles with GRO (C6-C10)
Work Order		Project Number	Concrete Plant	B	SVols with DRO (C10-C21), ORO (C21-C35)
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	RCRA 8 Metals-Total
Send Report To	Emily Fisher	Invoice Attn	Emily Fisher	D	% Moisture
Address	415 Oak Street	Address	415 Oak Street	E	RCRA 8 Metals-Dissolved
				F	Project Specific MS/MSD on this sample point
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	TDS Only
Phone	(816) 412-1755	Phone	(816) 412-1755	H	Lead Only
Fax	(816) 410-1748	Fax	(816) 410-1748	I	Grain Size
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
11	LCBP-SS-004	4/24/13	1155	SD	2-Meth 2-#5	6	X	X	X								
12	LCBP-SS-004A		1155				X	X	X								
13	LCBP-SS-005		1320				X	X	X								
14	LCBP-SS-005A		1320				X	X	X								
15	LCBP-SS-006		1345				X	X	X								
16	LCBP-SS-006A		1345				X	X	X								
17	LCBP-SS-007		1450				X	X	X								
18	LCBP-SS-007A		1450	↓	↓	↓	X	X	X								
19	LCBP-6W-007	↓	1530	WA	2-#2 3-HCl	7	X	X	X		X						
10																	

Sampler(s) Please Print & Sign <i>Bryan Erickson</i>		Shipment Method <i>Fed Ex</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: <i>4/25/13</i>	Time: <i>1900</i>	Received by: <i>FED EX</i>		Notes:		
Relinquished by: <i>FED EX</i>	Date: <i>4/26/13</i>	Time: <i>1000</i>	Received by (Laboratory): <i>[Signature]</i>		Cooler ID	Cooler Temp. <i>5.02</i>	QC Package: (Check One Box Below)
Logged by (Laboratory): <i>DFS</i>	Date: <i>4/26/13</i>	Time: <i>1445</i>	Checked by (Laboratory): <i>[Signature]</i>				<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035							

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+1 610 948 4903

Salt Lake City, UT  
+1 801 266 7700

South Charleston, WV  
+1 304 356 3168

York, PA  
+1 717 505 5280

ALS Project Manager:

ALS Work Order #: 1304107

## Customer Information

Purchase Order	
Work Order	
Company Name	Tetra Tech
Send Report To	Emily Fisher
Address	415 Oak Street
City/State/Zip	Kansas City, MO 64106
Phone	(816) 412-1755
Fax	(816) 410-1748
e-Mail Address	

## Project Information

Project Name	Municipal Farm Lafarge
Project Number	Concrete Plant
Bill To Company	Tetra Tech
Invoice Attn	Emily Fisher
Address	415 Oak Street
City/State/Zip	Kansas City, MO 64106
Phone	(816) 412-1755
Fax	(816) 410-1748
e-Mail Address	

## Parameter/Method Request for Analysis

A	TCL Volatiles with GRO (C6-C10)
B	SVols with DRO (C10-C21), ORO (C21-C35)
C	RCRA 8 Metals-Total
D	% Moisture
E	RCRA 8 Metals-Dissolved
F	Project Specific MS/MSD on this sample point
G	TDS Only
H	Lead Only
I	Grain Size
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
201	LCBP-SS-008	4/25/13	1010	SO	2-Meth 2-AS	6	X	X	X								
212	LCBP-SS-008A		1020				X	X	X								
223	LCBP-SS-009		1105				X	X	X								
234	LCBP-SS-010		1305				X	X	X								
245	LCBP-SC-001		1340		None	1									X		
6	Up Blank	4/25/13		W			✓										
7	Up Blank			5			✓										
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Bryan Erickson</i>		Shipment Method <i>Fed Ex</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by:	Date: 4/25/13	Time: 1900	Received by:	Notes:		Cooler ID		Cooler Temp.	QC Package: (Check One Box Below)
Relinquished by:	Date: 4/26/13	Time: 1000	Received by (Laboratory):					3.0°C	<input type="checkbox"/> Level III Std QC <input type="checkbox"/> TRRP CheckList
Logged by (Laboratory):	Date: 4/26/13	Time: 1445	Checked by (Laboratory):						<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035									<input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other

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Sample Receipt Checklist

Client Name: **TETRATECH - MO**

Date/Time Received: **26-Apr-13 10:00**

Work Order: **13041107**

Received by: **DS**

Checklist completed by Diane Shaw 26-Apr-13  
eSignature Date

Reviewed by: Ann Preston 28-Apr-13  
eSignature Date

Matrices: Water, Sediment, Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/26/2013 3:19:01 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



UNITED STATES  
ENVIRONMENTAL PROTECTION AGENCY  
OFFICIAL SAMPLE SEAL

SAMPLE NO.	DATE 7/25/13	SEAL BROKEN BY
SIGNATURE		
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)	

EPA FORM  
7500-2(RT-75)

EPA FORM  
7500-2(RT-75)

DATE 7/25/13	SEAL BROKEN BY
SAMPLE NO.	
SIGNATURE	
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)

EPA FORM  
7500-2(RT-75)

DATE 7/25/13	SEAL BROKEN BY
SAMPLE NO.	
SIGNATURE	
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)

EPA FORM  
7500-2(RT-75)

DATE 7/25/13	SEAL BROKEN BY
SAMPLE NO.	
SIGNATURE	
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)

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DATE 7/25/13	SEAL BROKEN BY
SAMPLE NO.	
SIGNATURE	
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)

EPA FORM  
7500-2(RT-75)

DATE 7/25/13	SEAL BROKEN BY
SAMPLE NO.	
SIGNATURE	
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)



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OFFICIAL SAMPLE SEAL

SAMPLE NO.	DATE 7/25/13	SEAL BROKEN BY
SIGNATURE		
PRINT NAME AND TITLE	(Inspector, Analyst or Technician)	

EPA FORM  
7500-2(RT-75)

DATE 7/25/13	SEAL BROKEN BY
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SAMPLE NO.

UNITED STATES  
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OFFICIAL SAMPLE SEAL





## DATA VERIFICATION REPORT

**Prepared by:** Harry Ellis

**Date:** 24 May 2013

**Site Name/Job Number:** Lafarge Concrete Plant, Municipal Farm, KCMO

**Laboratory:** ALS Environmental/Holland, Michigan

**Data Package or SDG Number:** 1305011

**Sample Designation/Name (ID):** LCBP-SF-001, LCBP-SF-002, LCBP-SF-003, LCBP-SF-006, LCBP-SF-005, LCBP-SC-002, LCBP-WA-FB, and LCBP-WA-ERB

**Matrices:** Soil (and aqueous quality control samples)

**Analytical Parameters:** VOC, GRO, SVOC, DRO, ORO, and Metals (Total and Dissolved)

<b>Data Package Element</b>	<b>Usable</b>	<b>Rejected</b>	<b>NA</b>	<b>Description of Affected Data (note specific samples and analytical parameters affected)</b>
Chain of custody	X			
Data package completeness	X			Summary package, as requested.
Sample preservation, storage, and holding times	X			
Method and field blank contamination	X			Following results less than reporting limit in all samples are blank contamination and should be flagged "U" to indicate that: 2-butanone, acetone, methylene chloride, GRO, phthalates, and silver. Higher concentration results are not qualified.
Surrogate spikes	X			No irregularities.
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	X			No qualifications for a few results that exceeded limits because analytes were not detected in any samples. No qualifications applied for irregularities in samples from other sites.
Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)	X			No qualifications for a few results that exceeded limits because analytes were not detected in any samples.
Other			X	

Summary      Many positive results were less than the sample reporting limit, which corresponds to the lowest calibration standard. The laboratory correctly qualified these as estimated (flagged “J”).

Most of the solid samples were analyzed for one or more metals at dilutions due to matrix interference. No further qualifications applied, but not raised detection limits.

All results can be used, as qualified, for any purpose.

## DATA VERIFICATION REPORT

**Prepared by:** Harry Ellis  
**Date:** 24 May 2013  
**Site Name/Job Number:** Lafarge Concrete Pit, Municipal Farm, KCMO  
**Laboratory:** ALS Environmental/Holland, Michigan  
**Data Package or SDG Number:** 13041107  
**Sample Designation/Name (ID):** LCBP-WA-001, LCBP-SW-001, LCBP-SD-001, LCBP-SW-002, LCBP-SD-001, LCBP-SS-001, LCBP-SS-002, LCBP-SS-002A, LCBP-SS-003, LCBP-SS-003A, LCBP-SS-004, LCBP-SS-004A, LCBP-SS-005, LCBP-SS-005A, LCBP-SS-006, LCBP-SS-006A, LCBP-SS-007, LCBP-SS-007A, LCBP-GW-007, LCBP-SS-008, LCBP-SS-008A, LCBP-SS-009, LCBP-SS-010, LCBP-SC-001, TB Water, and TB Soil  
**Matrices:** Water, Sediment, and Soil  
**Analytical Parameters:** VOC, GRO, SVOC, DRO, ORO, and Metals (Total and Dissolved)

<b>Data Package Element</b>	<b>Usable</b>	<b>Rejected</b>	<b>NA</b>	<b>Description of Affected Data (note specific samples and analytical parameters affected)</b>
Chain of custody	X			
Data package completeness	X			Summary package, as requested.
Sample preservation, storage, and holding times	X			
Method and field blank contamination	X			Following results less than reporting limit are blank contamination and should be flagged "U" to indicate that: (1) chloroform and phthalates in all samples, (2) acetone and toluene in all soil and sediment samples, (3) methylene chloride in LCBP-SS-004A, (4) mercury in LCBP-SS-008A, (5) selenium in LCBP-SD-001, LCBP-SD-002, LCBP-SS-001, LCBP-SS-002, and LCBP-SS-003, and (6) silver in LCBP-SS-004A, LCBP-SS-005, LCBP-SS-005A, LCBP-SS-006, LCBP-SS-006A, LCBP-SS-007, LCBP-SS-007A, LCBP-SS-008, LCBP-SS-008A, and LCBP-SS-010.
Surrogate spikes	X			No irregularities requiring qualification.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	X			Fluoranthene in sample LCBP-SS-004A qualified as estimated (flagged "J") due to apparent heterogeneity in distribution. No further qualifications applied for irregularities in samples from other sites.
Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)	X			All OK.
Other			X	
<p>Summary Many positive results were less than the sample reporting limit, which corresponds to the lowest calibration standard. The laboratory correctly qualified these as estimated (flagged "J").</p> <p>Many of the solid samples were analyzed for one or more metals at dilutions due to matrix interference or results above calibration range. No further qualifications applied, but not raised detection limits.</p> <p>All results may be used, as qualified, for any purpose.</p>				

### **Grain Size Analysis**

*LCBP-SC-001*

Date Tested:	5/1/13	
Analyst:	KK	
Work Order:	13041107-24A	
	Sand	16.00%
	Silt	30.00%
	Clay	54.00%

*LCBP-SC-002*

Date Tested:	5/2/13	
Analyst:	KK	
Work Order:	1305011	
	Gravel	42.38%
	Sand	25.62%
	Silt	19.90%
	Clay	12.10%

## **APPENDIX E**

### **TABLES**

TABLE E-1

**SUMMARY OF SAMPLES COLLECTED DURING PHASE II TBA ACTIVITIES  
MUNICIPAL FARMS – FORMER LAFARGE SITE, JACKSON COUNTY, MISSOURI**

Sample Number	Sample Depth	Sample Description	Sample Analyses
Subsurface Soil Samples			
LCBP-SS-001	0-2 feet (ft) below ground surface (bgs)	Likely former Underground Storage Tank (UST) location.	Volatile Organic Compounds (VOCs) and Total Petroleum Hydrocarbons (TPH) - Gasoline Range Organics (TPH-GRO) by Method SW8260
LCBP-SS-002	2-4 ft bgs		
LCBP-SS-002A	4-6 ft bgs		
LCBP-SS-003	2-4 ft bgs		
LCBP-SS-003A	6-8 ft bgs		
LCBP-SS-004	2-4 ft bgs		
LCBP-SS-004A	5-7 ft bgs		
LCBP-SS-005	2-4 ft bgs		
LCBP-SS-005A	6-8 ft bgs		
LCBP-SS-006	2-4 ft bgs		
LCBP-SS-006A	6-8 ft bgs	Semi-Volatile Organic Compounds (SVOCs) and TPH – Diesel Range Organic (DRO) & Oil Range Organics (ORO) by Method SW8270	
LCBP-SS-007	9-11 ft bgs		Resource Conservation and Recovery Act (RCRA) metals by Methods SW6020A and SW7471
LCBP-SS-007A	11-13 ft bgs		
LCBP-SS-008	6-8 ft bgs		
LCBP-SS-008A	10-12 ft bgs		
LCBP-SS-009	2-4 ft bgs		
LCBP-SS-010	4-6 ft bgs	Southwest of the debris piles.	
LCBP-SC-001	7-9 ft bgs	North of entrance.	Particle Size Analysis by ASTM Method D422
LCBP-SC-002	5-7 ft bgs	Northwest of the debris piles.	
Surface Soil Samples			
LCBP-SF-001	0-0.5 ft bgs	South of the entrance	VOCs (TPH-GRO), SVOCs (TPH-DRO & -ORO), RCRA metals
LCBP-SF-002		In an area of drums.	
LCBP-SF-003		North of the entrance.	
LCBP-SF-004		Near petroleum containers and used oil filters.	
LCBP-SF-005		Southwest of the empty AST.	Lead
Surface Water Samples			
LCBP-SW-001	Surface	East washout pit.	VOCs (TPH-GRO), SVOCs (TPH-DRO & -ORO), Total and Dissolved RCRA metals
LCBP-SW-002	Surface	West washout pit.	
LCBP-WA-001	N/A	Manhole.	
Sediment Samples			
LCBP-SD-001	1 inch below water surface	East washout pit.	VOCs (TPH-GRO), SVOCs (TPH-DRO & -ORO), RCRA metals
LCBP-SD-002		West washout pit.	
Groundwater Sampling			
LCBP-GW-007	13 ft bgs	Near manhole.	VOCs (TPH-GRO), SVOCs (TPH-DRO & -ORO), Total and Dissolved RCRA metals

TABLE E-2

**SUMMARY OF METALS ANALYSIS OF SOIL SAMPLES  
MUNICIPAL FARMS - LAFARGE , JACKSON COUNTY, MISSOURI**

Sample Identification	Analyte and Associated Concentration in Milligrams per Kilogram (mg/kg)							
	Mercury	Arsenic	Barium	Cadmium	Chromium*	Lead	Selenium	Silver
LCBP-SD-001	0.023 J	<b>4.0 J</b>	280	0.79 J	50	<b>16</b>	2.0 J	0.09 J
LCBP-SD-002	0.044	3.0 J	1,800	0.92 J	31	<b>15</b>	1.6 J	0.037 J
LCBP-SS-001	0.0067 J	1.3	33	0.11 J	3.1	3.4	0.29 J	0.0031 U
LCBP-SS-002	0.057	<b>9.5</b>	130	0.78	29	<b>29</b>	0.76 J	0.51 J
LCBP-SS-002A	0.35	<b>28</b>	110	<b>21</b>	310	<b>270</b>	<b>6.3</b>	2.5
LCBP-SS-003	0.084	<b>25</b>	160	1	35	<b>23</b>	0.56 J	1.1
LCBP-SS-003A	0.29	<b>35</b>	180	<b>28</b>	350	<b>350</b>	<b>24</b>	3
LCBP-SS-004	0.019	<b>5.5</b>	120	0.55	19	<b>16</b>	0.85	0.072 J
LCBP-SS-004A	0.027	<b>6.6</b>	210	3.2	21	<b>19</b>	0.69 J	0.12 J
LCBP-SS-005	0.0062 J	2.7	80	0.18	7.1	<b>6.8</b>	0.38 J	0.020 J
LCBP-SS-005A	0.0031 J	0.94	23	0.061 J	2.5	2.5	0.14 J	0.0058 J
LCBP-SS-006	0.0085 J	2.0 J	210	0.49 J	9.3	<b>10</b>	0.64 J	0.033 J
LCBP-SS-006A	0.0099 J	2.4	190	0.40 J	10	<b>10</b>	0.61 J	0.025 J
LCBP-SS-007	0.03	<b>7.2</b>	160	<b>11</b>	23	<b>24</b>	1.1	0.17 J
LCBP-SS-007A	0.011 J	3.1	130	2.4	19	<b>10</b>	0.8	0.055 J
LCBP-SS-008	0.02	<b>9</b>	130	1.7	21	<b>15</b>	0.65	0.067 J
LCBP-SS-008A	0.011 J	2.4	110	1.1	22	2.5	0.58 J	0.0074 J
LCBP-SS-009	0.034	<b>4.3</b>	150	1.2	12	<b>30</b>	0.71 J	0.0044 U
LCBP-SS-010	0.046	3.8	99	0.67 J	11	<b>49</b>	0.32 J	0.038 J
LCBP-SF-001	0.029	3.5	120	0.5	18	<b>20</b>	1.5	0.072 J
LCBP-SF-002	0.033	3.6	84	3	49	<b>44</b>	2.9	0.048 J
LCBP-SF-003	0.023	<b>5.9</b>	210	0.56	18	<b>110</b>	0.62 J	0.083 J
LCBP-SF-004	0.026	1.4	32	1.3	8.2	<b>46</b>	0.27 J	0.014 J
LCBP-SF-005	NA	NA	NA	NA	NA	<b>27</b>	NA	NA
Screening Values in mg/kg								
Lowest Default Target Levels	2.19 <sup>INH</sup>	3.89 <sup>SDC</sup>	2,040 <sup>GWP</sup>	9.31 <sup>GWP</sup>	74,600 <sup>SDC</sup> 0.00159 <sup>GWP</sup>	3.74 <sup>GWP</sup>	6.27 <sup>GWP</sup>	16 <sup>GWP</sup>
Tier 1 RBTL; Soil Type 1, Residential	2.19	3.89	15,000	16.8	74,600 0.147	260	380	374
Tier 1 RBTL; Soil Type 1, Non-residential	17.6	15.9	181,000	74.8	702,000 0.639	660	4,780	4,480
Jackson County Missouri Background	0.016	16.603	NE	NE	NE	40.96	0.499	NE

Notes:

- \* Two screening levels are presented for chromium; the first is for trivalent chromium, the second is for hexavalent chromium.

**XXX** Analyte concentration equals or exceeds the Lowest Default Target Level

**XXX** Analyte concentration equals or exceeds the Tier 1 Residential RBTL

**XXX** Analyte concentration equals or exceeds the Tier 1 Non-residential RBTL

GWP Protection of domestic groundwater use pathway

INH Indoor inhalation pathway

J Analyte detected below the quantitation limit.

NA Not analyzed

NE Not established

RBTL Risk-based target level from Table B-2 of the Missouri Risk Based Corrective Action Technical Guidance, Appendix B

SDC Soil direct contact pathway

U Analyzed but not detected above the indicated method detection limit.



TABLE E-3

**SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS OF SOIL SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Sample Number	Analyte and Associated Concentration in Milligrams per Kilogram (mg/kg)														
	DRO	ORO	1,1'-Biphenyl	2,6-Dinitrotoluene	2-Methylnaphthalene	3-Nitroaniline	Acetophenone	4-Nitrophenol	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-chloroethyl)ether
LCBP-SD-001	4.4 U	5.0 U	0.18 U	0.033 U	0.035 U	0.290 U	0.018 U	0.140 U	0.036 U	0.043 U	0.055 U	0.057 U	0.084 U	0.048 U	0.030 U
LCBP-SD-002	3.5 U	140	0.014 U	0.026 U	0.028 U	0.230 U	0.014 U	0.110 U	0.029 U	0.097	0.160	0.180	0.120	0.088	0.023 U
LCBP-SS-001	1.5 U	26	0.0059 U	0.011 U	0.012 U	0.097 U	0.006 U	0.048 U	0.012 U	0.015 U	0.018 U	0.019 U	0.028 U	0.016 U	0.010 U
LCBP-SS-002	1.5 U	19	0.0061 U	0.011 U	0.012 U	0.099 U	0.0061 U	0.049 U	0.012 U	0.015 U	0.018 U	0.020 U	0.029 U	0.017 U	0.010 U
LCBP-SS-002A	1.6 U	75	0.0063 U	0.012 U	0.012 U	0.100 U	0.0063 U	0.051 U	0.013 U	0.015 U	0.020 U	0.020 U	0.030 U	0.017 U	0.011 U
LCBP-SS-003	1.5 U	16	0.0061 U	0.011 U	0.012 U	0.099 U	0.0061 U	0.049 U	0.012 U	0.015 U	0.019 U	0.020 U	0.029 U	0.017 U	0.010 U
LCBP-SS-003A	200	640	0.0067 U	0.013 U	0.031 J	0.110 U	0.0067 U	0.055 U	0.014 U	0.058	0.021 U	0.093	0.062	0.043	0.011 U
LCBP-SS-004	1.5 U	32	0.0059 U	0.011 U	0.012 U	0.096 U	0.0059 U	0.048 U	0.012 U	0.014 U	0.018 U	0.019 U	0.028 U	0.016 U	0.0098 U
LCBP-SS-004A	1.6 U	20	0.0062 U	0.012 U	0.012 U	0.100 U	0.0062 U	0.051 U	0.013 U	0.015 U	0.019 U	0.020 U	0.030 U	0.017 U	0.010 U
LCBP-SS-005	30	26	0.006 U	0.011 U	0.012 U	0.099 U	0.0061 U	0.049 U	0.012 U	0.015 U	0.019 U	0.020 U	0.029 U	0.017 U	0.010 U
LCBP-SS-005A	1.4 U	1.5 U	0.0054 U	0.010 U	0.011 U	0.088 U	0.0054 U	0.044 U	0.011 U	0.013 U	0.017 U	0.00.018 U	0.026 U	0.015 U	0.0091 U
LCBP-SS-006	1.5 U	83	0.006 U	0.011 U	0.012 U	0.099 U	0.006 U	0.049 U	0.120	0.280	0.240	0.300	0.140	0.110	0.010 U
LCBP-SS-006A	1.4 U	1.6 U	0.0055 U	0.010 U	0.011 U	0.091 U	0.0056 U	0.045 U	0.011 U	0.014 U	0.017 U	0.018 U	0.026 U	0.015 U	0.0093 U
LCBP-SS-007	1.6 U	1.8 U	0.0064 U	0.012 U	0.013 U	0.100 U	0.0064 U	0.052 U	0.013 U	0.016 U	0.020 U	0.021 U	0.030 U	0.017 U	0.011 U
LCBP-SS-007A	1.4 U	1.6 U	0.033 J	0.011 U	0.011 U	0.093 U	0.0057 U	0.046 U	0.012 U	0.014 U	0.018 U	0.018 U	0.027 U	0.016 U	0.0095 U
LCBP-SS-008	1.6 U	1.8 U	0.0062 U	0.012 U	0.012 U	0.100 U	0.0063 U	0.051 U	0.013 U	0.015 U	0.019 U	0.020 U	0.030 U	0.017 U	0.010 U
LCBP-SS-008A	1.5 U	1.7 U	0.034 J	0.011 U	0.012 U	0.097 U	0.0059 U	0.048 U	0.012 U	0.014 U	0.018 U	0.019 U	0.028 U	0.016 U	0.0099 U
LCBP-SS-009	1.8 U	2.0 U	0.0071 U	0.013 U	0.014 U	0.120 U	0.0071 U	0.058 U	0.014 U	0.017 U	0.022 U	0.023 U	0.033 U	0.019 U	0.012 U
LCBP-SS-010	29 U	32 U	0.110 U	0.220 U	0.230 U	1.9 U	0.120 U	0.940 U	0.240 U	0.280 U	0.360 U	0.530 J	0.620 J	0.310 U	0.190 U
LCBP-SF-001	1.8 U	67	0.0072 U	0.014 U	0.014 U	0.011 U	0.054 J	0.013 U	0.015 U	0.099	0.140	0.180	0.093	0.073	0.012 U
LCBP-SF-002	1.8 U	100	0.007 U	0.013 U	0.014 U	0.110 U	0.110 J	0.057 U	0.014 U	0.040 J	0.073	0.080	0.057	0.040 J	0.012 U
LCBP-SF-003	1.6 U	27	0.0063 U	<b>0.052 J</b>	0.012 U	<b>0.110 J</b>	0.0063 U	<b>0.062 J</b>	0.028 J	0.120	0.140	0.180	0.081	0.071	<b>0.092 J</b>
LCBP-SF-004	1.4 U	33	0.0055 U	0.010 U	0.011 U	0.089 U	0.060 J	0.044 U	0.011 U	0.043	0.065	0.084	0.049	0.039	0.0092 U
Screening Values in mg/kg															
Lowest Default Target Levels	4,150 <sup>INH</sup>	124,000 <sup>SDC</sup>	30.7 <sup>GWP</sup>	0.0112 <sup>GWP</sup>	7.55 <sup>GWP</sup>	0.0329 <sup>GWP</sup>	NE	0.0539 <sup>GWP</sup>	3,060 <sup>GWP</sup>	6.12 <sup>GWP</sup>	0.62 <sup>SDC</sup>	6.19 <sup>SDC</sup>	1,720 <sup>SDC</sup>	62 <sup>SDC</sup>	0.000449 <sup>GWP</sup>
Tier 1 RBTL; Soil Type 1, Residential	140,000	124,000	3,420	6.85	273	17.8	NE	89.7	15,700	6.2	0.62	6.19	1,720	62	5.49

TABLE E-3

**SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS OF SOIL SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Sample Number	Analyte and Associated Concentration in milligrams per kilogram (mg/kg)														
	Bis(2-chloropropyl) ether	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Carbazole	Chrysene	Dibenzo(a,b)anthracene	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
LCBP-SD-001	0.028 U	0.035 U	0.049 U	0.041 U	0.040 U	0.061 U	0.030 U	0.036 U	0.044 U	0.042 U	0.031 U	0.067 U	0.030 U	0.11 U	0.044 U
LCBP-SD-002	0.022 U	0.028 U	0.039 U	0.032 U	0.070 J	0.048 U	0.023 U	0.028 U	0.035 U	0.120	0.025 U	0.180	0.024 U	0.084 U	0.160
LCBP-SS-001	0.0093 U	0.012 U	0.017 U	0.014 U	0.014 U	0.020 U	0.010 U	0.012 U	0.015 U	0.014 U	0.010 U	0.023 U	0.010 U	0.036 U	0.015 U
LCBP-SS-002	0.0095 U	0.012 U	0.017 U	0.014 U	0.014 U	0.021 U	0.010 U	0.012 U	0.015 U	0.015 U	0.011 U	0.023 U	0.010 U	0.037 U	0.015 U
LCBP-SS-002A	0.0098 U	0.150 J	0.017 U	0.014 U	0.014 U	0.022 U	0.011 U	0.013 U	0.016 U	0.015 U	0.011 U	0.024 U	0.011 U	0.038 U	0.016 U
LCBP-SS-003	0.0095 U	0.012 U	0.017 U	0.014 U	0.014 U	0.021 U	0.010 U	0.012 U	0.015 U	0.015 U	0.011 U	0.023 U	0.010 U	0.037 U	0.015 U
LCBP-SS-003A	0.010 U	0.013 U	0.019 U	0.015 U	0.050	0.023 U	0.011 U	0.014 U	0.017 U	0.027 J	0.012 U	0.071	0.028 J	0.140	0.064
LCBP-SS-004	0.0092 U	0.120 J	0.016 U	0.013 U	0.013 U	0.020 U	0.0098 U	0.012 U	0.015 U	0.014 U	0.010 U	0.022 U	0.010 U	0.035 U	0.015 U
LCBP-SS-004A	0.0098 U	0.012 U	0.017 U	0.014 U	0.014 U	0.021 U	0.010 U	0.013 U	0.015 U	0.015 U	0.011 U	0.024 U	0.011 U	0.038 U	0.016 U
LCBP-SS-005	0.0095 U	0.012 U	0.017 U	0.014 U	0.014 U	0.021 U	0.010 U	0.013 U	0.015 U	0.014 U	0.011 U	0.023 U	0.010 U	0.036 U	0.015 U
LCBP-SS-005A	0.0085 U	0.011 U	0.015 U	0.012 U	0.012 U	0.019 U	0.0091 U	0.011 U	0.013 U	0.013 U	0.0095 U	0.021 U	0.0093 U	0.033 U	0.014 U
LCBP-SS-006	0.0095 U	0.069 J	0.017 U	0.063 J	0.240	0.065	0.010 U	0.012 U	0.130 J	0.440	0.030 J	0.180	0.010 U	0.340	0.460
LCBP-SS-006A	0.0087 U	0.011 U	0.015 U	0.013 U	0.013 U	0.019 U	0.0093 U	0.011 U	0.014 U	0.013 U	0.0098 U	0.021 U	0.0095 U	0.034 U	0.014 U
LCBP-SS-007	0.010 U	0.013 U	0.018 U	0.015 U	0.014 U	0.022 U	0.011 U	0.013 U	0.016 U	0.015 U	0.011 U	0.024 U	0.011 U	0.038 U	0.016 U
LCBP-SS-007A	0.0089 U	0.048 J	0.016 U	0.013 U	0.013 U	0.020 U	0.0095 U	0.071 J	0.014 U	0.014 U	0.010 U	0.022 U	0.0098 U	0.034 U	0.014 U
LCBP-SS-008	0.0098 U	0.012 U	0.017 U	0.014 U	0.014 U	0.021 U	0.010 U	0.013 U	0.016 U	0.015 U	0.011 U	0.024 U	0.011 U	0.038 U	0.016 U
LCBP-SS-008A	0.0093 U	0.012 U	0.035 J	0.014 U	0.013 U	0.020 U	0.046 J	0.073 J	0.015 U	0.014 U	0.010 U	0.022 U	0.010 U	0.036 U	0.015 U
LCBP-SS-009	0.011 U	0.014 U	0.020 U	0.016 U	0.016 U	0.024 U	0.012 U	0.014 U	0.018 U	0.017 U	0.012 U	0.027 U	0.012 U	0.043 U	0.018 U
LCBP-SS-010	0.180 U	0.230 U	0.320 U	0.260 U	0.950	0.390 U	0.190 U	0.230 U	0.280 U	1.100	0.200 U	0.440 U	0.200 U	0.690 U	0.290 U
LCBP-SF-001	0.011 U	0.099 J	0.110 J	0.017 U	0.100	0.054	0.012 U	0.015 U	0.018 U	0.200	0.013 U	0.130 U	0.012 U	0.080 U	0.180 U
LCBP-SF-002	0.011 U	0.340 J	0.190 J	0.016 U	0.025 J	0.024 U	0.012 U	0.070 J	0.017 U	0.044	0.012 U	0.079	0.012 U	0.042 U	0.058
LCBP-SF-003	<b>0.050 J</b>	0.047 J	0.061 J	0.014 U	0.120	0.045	0.011 U	0.050 J	0.016 U	0.280	0.011 U	0.110	0.120	0.210	0.210
LCBP-SF-004	0.0086 U	1.30	0.092 J	0.013 U	0.037	0.019 U	0.0092 U	0.085 J	0.014 U	0.051	0.0096 U	0.072	0.0094 U	0.033 U	0.058
Screening Values in mg/kg															
Lowest Default Target Levels	0.0318 <sup>GWP</sup>	347 <sup>SDC</sup>	12,200 <sup>SDC</sup>	13.3 <sup>GWP</sup>	599 <sup>SDC</sup>	0.62 <sup>SDC</sup>	1,120 <sup>GWP</sup>	5,460 <sup>GWP</sup>	75.8 <sup>GWP</sup>	2,280 <sup>SDC</sup>	211 <sup>GWP</sup>	3.77 <sup>SDC</sup>	0.325 <sup>GWP</sup>	158 <sup>GWP</sup>	1,500 <sup>GWP</sup>
Tier 1 RBT; Soil Type 1, Residential	88.8	347	12,200	242	599	0.62	585,000	6,110	2,280	2,280	2,200	3.77	36.3	2,170	1,710

TABLE E-3

**SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS OF SOIL SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Notes:

**XXX**

Analyte concentration equals or exceeds a screening concentration

DRO Diesel range organics (C10-C21)

GWP Protection of domestic groundwater use pathway

INH Indoor inhalation pathway

J Analyte detected below the quantitation limit.

NE Not established

ORO Oil range organics (C21-C35)

RBTL Risk-based target level from Table B-2 of the Missouri Risk Based Corrective Action Technical Guidance, Appendix B

SDC Soil direct contact pathway

U Analyzed but not detected above the indicated method detection limit.

TABLE E-4

**SUMMARY OF VOLATILE ORGANIC COMPOUND ANALYSIS OF SOIL SAMPLES  
MUNICIPAL FARMS - LAFARGE , JACKSON COUNTY, MISSOURI**

Sample Number	Analyte and Associated Concentration in Milligrams per Kilogram (mg/kg)															
	Gasoline Range Organics	2-Butanone	Acetone	Benzene	Carbon disulfide	Chloroform	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl acetate	Methylcyclohexane	Methylene chloride	o-Xylene	Toluene	Xylenes, Total
LCBP-SD-001	5.80 U	0.0097 J	0.060	0.00091 U	0.013 J	0.0016 J	0.0012 U	0.00071 U	0.00071 U	0.0014 U	0.003 U	0.002 J	0.0001 U	0.00073 U	0.0024 J	0.0021 U
LCBP-SD-002	7.20 J	0.230 U	0.200 U	0.037 U	0.046 U	0.038 U	0.042 U	0.034 U	0.040 U	0.070 U	0.220 J	0.043 U	0.036 U	0.039 U	0.062 J	0.110 U
LCBP-SS-001	1.60 U	0.0024 J	0.024	0.00071 J	0.00053 J	0.00053 J	0.0012 J	0.00039 J	0.00025 U	0.00052 J	0.001 U	0.0021 J	0.00037 U	0.00026 U	0.0013 J	0.00075 U
LCBP-SS-002	1.50 U	0.0049 J	0.018	0.00027 U	0.00086 J	0.00046 J	0.00035 U	0.00021 U	0.00021 U	0.00042 U	0.00089 U	0.00031 U	0.00031 U	0.00022 U	0.00026 U	0.00064 U
LCBP-SS-002A	1.60 U	0.018	0.092	0.00043 J	0.00089 J	0.00044 J	0.00034 U	0.00020 U	0.00020 U	0.0004 U	0.00085 U	0.00029 U	0.0003 U	0.00021 U	0.00025 J	0.00061 U
LCBP-SS-003	1.50 U	0.00087 U	0.012	0.002 J	0.00042 U	0.00056 J	0.0038 J	0.0015 J	0.00022 U	0.0013 J	0.00091 U	0.006 J	0.00032 U	0.0005 J	0.0038 J	0.0018 J
LCBP-SS-003A	3.60 J	0.100 U	0.088 U	0.017 U	0.021 U	0.017 U	0.019 U	0.016 U	0.018 U	0.032 U	0.056 U	0.019 U	0.016 U	0.018 U	0.037 J	0.049 U
LCBP-SS-004	1.50 U	0.0044 J	0.020	0.00027 J	0.00036 U	0.00026 U	0.00031 U	0.00019 U	0.00019 U	0.00037 U	0.00079 U	0.00027 U	0.00028 U	0.00020 U	0.00023 U	0.00056 U
LCBP-SS-004A	1.60 U	0.00073 U	0.005 J	0.00032 J	0.00060 J	0.00051 J	0.0003 U	0.00018 U	0.00018 U	0.00036 U	0.00076 U	0.00026 U	0.00067 J	0.00019 U	0.00024 J	0.00055 U
LCBP-SS-005	2.90 J	0.090 U	0.077 U	0.015 U	0.018 U	0.015 U	0.016 U	0.014 U	0.016 U	0.028 U	0.049 U	0.017 U	0.014 U	0.015 U	0.014 U	0.043 U
LCBP-SS-005A	5.50	0.082 U	0.070 U	0.013 U	0.016 U	0.014 U	0.015 U	0.012 U	0.014 U	0.025 U	0.044 U	0.015 U	0.013 U	0.014 U	0.012 U	0.039 U
LCBP-SS-006	3.80 J	0.091 U	0.078 U	0.015 U	0.018 U	0.015 U	0.017 U	0.014 U	0.016 U	0.028 U	0.200 J	0.017 U	0.014 U	0.016 U	0.023 J	0.044 U
LCBP-SS-006A	2.70 J	0.0028 J	0.014	0.00063 J	0.00053 J	0.00029 U	0.00066 J	0.00029 J	0.00022 U	0.00045 J	0.90 U	0.0012 J	0.00032 U	0.00022 U	0.0012 J	0.00064 U
LCBP-SS-007	1.60 U	0.00082 U	0.050	0.0015 J	0.0026 J	0.00028 U	0.0029 J	0.00022 J	0.00021 U	0.00047 J	0.00086 U	0.018	0.0003 U	0.00021 U	0.0007 J	0.00061 U
LCBP-SS-007A	1.40 U	0.003 J	0.0085 J	0.0023 J	0.0024 J	0.00026 U	0.0017 J	0.00019 U	0.00019 U	0.00037 U	0.00078 U	0.0041 J	0.00028 U	0.00019 U	0.0013 J	0.00056 U
LCBP-SS-008	1.60 U	0.013	0.033	0.0015 J	0.0015 J	0.00028 U	0.0042 J	0.002 J	0.00024 J	0.0033	0.00087 U	0.0089 J	0.00031 U	0.00092 J	0.0062	0.0042 J
LCBP-SS-008A	2.70 J	0.00087 U	0.0045 J	0.00045 J	0.00059 J	0.0003 U	0.00036 U	0.00022 U	0.00022 U	0.00043 U	0.00092 U	0.00032 U	0.00032 U	0.00023 U	0.00038 J	0.00065 U
LCBP-SS-009	1.80 U	0.0065 J	0.016	0.0004 U	0.0006 U	0.00042 U	0.00052 U	0.00031 U	0.00031 U	0.00061 U	0.0013 U	0.00045 U	0.00046 U	0.00032 U	0.00038 U	0.00093 U
LCBP-SS-010	1.50 U	0.010	0.043	0.00061 J	0.0012 J	0.00022 U	0.00056 J	0.00016 U	0.00016 U	0.00032 U	0.00067 U	0.00081 J	0.00024 U	0.00017 U	0.00062 J	0.00048 U
LCBP-SF-001	2.80 J	0.019	0.0014 U	0.0011 J	0.00085 J	0.00031 U	0.0014 J	0.00035 J	0.00023 U	0.0005 J	0.00096 U	0.0022 J	0.0012 J	0.00024 U	0.0013 J	0.00069 U
LCBP-SF-002	2.50 J	0.011 J	0.073	0.00045 J	0.00043 U	0.0003 U	0.00062 J	0.00022 U	0.00022 U	0.00044 U	0.00094 U	0.00095 J	0.0011 J	0.00023 U	0.00053 J	0.00067 U
LCBP-SF-003	2.10 J	0.02	0.0012 U	0.00051 J	0.0062	0.00028 U	0.00034 U	0.00021 U	0.00021 U	0.0004 U	0.00086 U	0.0003 U	0.00092 J	0.00021 U	0.00043 J	0.00061 U
LCBP-SF-004	1.70 J	0.0085 J	0.052	0.00071 J	0.0022 J	0.00026 U	0.0008 J	0.00034 J	0.00019 U	0.00037 J	0.00078 U	0.0013 J	0.00094 J	0.00019 U	0.00094 J	0.00056 U
Trip Blank soil	NA	0.00077 U	0.0021 J	0.00025 U	0.00037 U	0.00026 U	0.00032 U	0.00019 U	0.00019 U	0.00038 U	0.0008 U	0.00028 U	0.00028 U	0.00020 U	0.00056 J	0.00058 U
Screening Values in mg/kg																
Lowest Default Target Levels	385 <sup>INH</sup>	7.3 <sup>GWP</sup>	4.2 <sup>GWP</sup>	0.0561 <sup>GWP</sup>	6.2 <sup>INH</sup>	0.0766 <sup>INH</sup>	NE	39.9 <sup>GWP</sup>	10.5 <sup>INH</sup>	24.7 <sup>INH</sup>	NE	NE	0.0176 <sup>GWP</sup>	24.7 <sup>INH</sup>	29.8 <sup>GWP</sup>	24.7 <sup>INH</sup>
Tier 1 RBTL: Soil Type 1, Residential	385	3,880	1,830	0.378	6.26	0.0766	NE	193	10.5	24.7	NE	NE	2.86	24.7	499	24.7

Notes:

GWP Protection of domestic groundwater use pathway

INH Indoor inhalation pathway

J Analyte detected below the quantitation limit.

NE Not established

RBTL Risk-based target level from Table B-2 of the Missouri Risk Based Corrective Action Technical Guidance, Appendix B

SDC Soil direct contact pathway

U Analyzed but not detected above the indicated method detection limit.

TABLE E-5

**SUMMARY OF METALS ANALYSIS OF WATER SAMPLES  
MUNICIPAL FARMS - LAFARGE , JACKSON COUNTY, MISSOURI**

Sample Number	Analyte and Associated Concentration in Micrograms per Liter (µg/L)															
	Mercury		Arsenic		Barium		Cadmium		Chromium		Lead		Selenium		Silver	
	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved
LCBP-WA-001	0.1 U	0.1 U	0.58 U	0.58 U	45	43	0.24 J	<b>0.23 J</b>	0.5 J	0.35 J	0.32 J	0.18 J	5.4 J	6.2	0.042 U	0.042 U
LCBP-SW-001	0.1 U	0.1 U	0.58 U	0.58 U	19	17	0.045 U	0.045 U	0.56 J	0.57 J	0.07 J	0.12 J	0.64 U	0.64 U	0.042 U	0.042 U
LCBP-SW-002	0.1 U	0.1 U	0.58 U	0.58 U	22	19	0.045 U	0.045 U	0.63 J	0.45 J	0.065 J	0.051 U	0.64 U	0.069 J	0.042 U	0.042 U
LCBP-GW-007	0.27	0.1 U	<b>65</b>	0.64 J	<b>2,000</b>	260	<b>140</b>	0.045 U	<b>260</b>	0.42 J	<b>650</b>	0.054 J	9.4	0.64 U	1	0.042 U
LCBP-WA-FB	0.1 U	0.1 U	0.58 U	0.58 U	0.063 U	0.088 J	0.045 U	0.045 U	0.27 U	0.27 U	0.051 U	0.087 J	0.64 U	0.64 U	0.042 U	0.042 U
LCBP-WA-ERB	0.1 U	0.1 U	0.58 U	0.58 U	0.063 U	0.088 J	0.045 U	0.045 U	0.57 J	0.27 U	0.051 U	0.087 J	0.64 U	0.64 U	0.042 U	0.042 U
Screening Values in µg/L																
Lowest Default Target Levels	50.7		10		2,000		5		100 Cr III 0.00337 Cr VI		15		50		78.1	
Tier 1 RBTL; Soil Type 1, Drinking water use	50.7		10		2,000		5		100 Cr III 0.00337 Cr VI		15		50		78.2	

Notes:

- XXX** Analyte concentration equals or exceeds a screening concentration
- U Analyzed but not detected above the method detection limit
- J Analyte detected below the quantitation limit
- Cr III Trivalent chromium
- Cr VI Hexavalent chromium
- RBTL Risk-based target level from Table B-2 of the Missouri Risk Based Corrective Action Technical Guidance, Appendix B

TABLE E-6

**SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS OF WATER SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Sample Number	Analyte and Associated Concentration in Micrograms per Liter (µg/L)					
	DRO	ORO	1,1'-Biphenyl	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
LCBP-WA-001	13 U	27 U	0.095 U	1.2 J	0.14 U	1.8 J
LCBP-SW-001	13 U	27 U	0.095 U	1.2 J	0.14 U	1.8 J
LCBP-SW-002	13 U	27 U	0.095 U	1.2 J	0.14 U	1.8 J
LCBP-GW-007	13 U	3,800	0.095 U	0.69 U	0.14 U	1.8 J
LCBP-WA-FB	13 U	27 U	0.095 U	0.69 U	0.14 U	0.71 U
LCBP-WA-ERB	13 U	27 U	0.87 J	0.69 U	0.14 U	2.1 J
<b>Screening Values in µg/L</b>						
Lowest Default Target Levels	34,300	31,800	146	11,900	154,000	1,080
Tier 1 RBTL; Soil Type 1, Drinking water use	34,300	31,800	146	11,900	154,000	1,080

Notes:

U Analyzed but not detected above the method detection limit

J Analyte detected below the quantitation limit

DRO Diesel range organics (C10-C-21)

ORO Oil range organics (C21-C35)

RBTL Risk-based target level from Table B-2 of the Missouri Risk Based Corrective Action Technical Guidance, Appendix B

**TABLE E-7**

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS ANALYSIS OF WATER SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Sample Number	Analyte and Associated Concentration in per Liter (µg/L)			Micrograms
	GRO	Acetone	Carbon disulfide	Chloroform
LCBP-WA-001	25 U	0.33 U	0.17 U	0.15 U
LCBP-SW-001	25 U	0.33 U	0.17 U	0.78 J
LCBP-SW-002	25 U	0.33 U	0.17 U	0.82 J
LCBP-GW-007	170	0.33 U	1.1 J	0.15 U
Trip blank Water	NA	0.33 U	0.17 U	0.15 U
LCBP-WA-FB	30 J	4.7 J	0.17 U	0.15 U
LCBP-WA-ERB	33 J	4.6 J	0.17 U	0.15 U
<b>Screening Values in µg/L</b>				
Lowest Default Target Levels	18,100	2,970	527	80
Tier 1 RBTL; Soil Type 1, Drinking water use	18,100	2,970	527	80

Notes:

- U Analyzed but not detected above the method detection limit
- J Analyte detected below the quantitation limit
- GRO Gasoline range organics (C6-C10)
- RBTL Risk-based target level from Table B-2 of the Missouri Risk Based Corrective Action Technical Guidance, Appendix B

TABLE E-8

**ANALYTES ABOVE BENCHMARKS IN SURFACE SOIL AND SEDIMENT SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Surface Soil	MRBCA LDTL	MRBCA Tier 1 Sandy Soil Residential	MRBCA Tier 1 Sandy Soil Non-residential	USGS Background Concentrations (Metals Only)
<u><b>LCBP-SF-001</b></u>				
<b>Metals</b>				
Lead	X			
<u><b>LCBP-SF-002</b></u>				
<b>Metals</b>				
Lead	X			X
<u><b>LCBP-SF-003</b></u>				
<b>SVOCs</b>				
2,6-Dinitrotoluene	X			
3-Nitroaniline	X			
4-Nitrophenol	X			
Bis(2-chloroethyl)ether	X			
Bis(2-chloroisopropyl)ether	X			
<b>Metals</b>				
Arsenic	X	X		
Lead	X			X
<u><b>LCBP-SF-004</b></u>				
<b>Metals</b>				
Lead	X			X
<u><b>LCBP-SF-005</b></u>				
<b>Metals</b>				
Lead	X			
<u><b>LCBP-SD-001</b></u>				
<b>Metals</b>				
Arsenic	X			
Lead	X			
<u><b>LCBP-SD-002</b></u>				
<b>Metals</b>				
Lead	X			



TABLE E-9

**CONSTITUENTS ABOVE BENCHMARKS IN SUBSURFACE SOIL SAMPLES  
MUNICIPAL FARMS - LAFARGE, JACKSON COUNTY, MISSOURI**

Subsurface Soil	MRBCA LDTL	MRBCA Tier 1 Sandy Soil Residential	MRBCA Tier 1 Sandy Soil Non-residential	USGS Background Concentrations (Arsenic, Lead, and Selenium Only)
<u><b>LCPB-SS-002</b></u>				
Arsenic	X	X		
Lead	X			
<u><b>LCPB-SS-002A</b></u>				
Arsenic	X	X	X	X
Cadmium	X	X		
Lead	X	X		X
Selenium	X			X
<u><b>LCPB-SS-003</b></u>				
Arsenic	X	X	X	X
Lead	X			
<u><b>LCPB-SS-003A</b></u>				
Arsenic	X	X	X	X
Cadmium	X	X		
Lead	X	X		X
Selenium	X			X
<u><b>LCPB-SS-004</b></u>				
Arsenic	X	X		
Lead	X			
<u><b>LCPB-SS-004A</b></u>				
Arsenic	X	X		
Lead	X			
<u><b>LCPB-SS-005</b></u>				
Lead	X			
<u><b>LCPB-SS-006</b></u>				
Lead	X			
<u><b>LCPB-SS-006A</b></u>				
Lead	X			
<u><b>LCPB-SS-007</b></u>				
Arsenic	X	X		
Cadmium	X			
Lead	X			
<u><b>LCPB-SS-007A</b></u>				
Lead	X			
<u><b>LCPB-SS-008</b></u>				
Arsenic	X	X		
Lead	X			
<u><b>LCPB-SS-009</b></u>				
Arsenic	X	X		
Lead	X			
<u><b>LCPB-SS-010</b></u>				
Lead	X			X