TETRA TECH

August 26, 2014

Mr. Todd Davis
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Subject: Phase II Targeted Brownfields Assessment
Former Spotless Car Wash, St. Louis, Missouri
U.S. EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0002.017
Task Monitor: Todd Davis, EPA Site Assessment Manager

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting the attached Phase II Targeted Brownfields Assessment (TBA) of the Former Spotless Car Wash property, in St. Louis, Missouri. The TBA includes investigations to confirm or eliminate recognized environmental conditions specified in the Phase I TBA report prepared by Tetra Tech in January 2014, and to determine whether asbestos and lead-based paint are present in on-site structures.

If you have any questions or comments, please contact the project manager at (816) 412-1778.

Sincerely,

Robert Monnig, PE
START Project Manager

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PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT

FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Superfund Technical Assessment and Response Team (START) 4 Contract

Contract No. EP-S7-13-06, Task Order No. 0002.017

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
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August 26, 2014

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EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Region 7 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 Former Spotless Car Wash at 3300 Wisconsin Avenue in St. Louis, Missouri (subject property). As part of a redevelopment initiative, the St. Louis Land Revitalization Authority (LRA) had asked EPA to perform a Phase I TBA and Phase II TBA for petroleum including complete removal of eight underground storage tanks (UST) at the subject property. 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 in January 2014 identified the following recognized environmental conditions (REC) associated with the subject property: (1) presence of eight USTs on the subject property with unknown associated contamination, (2) presence of a hydraulic lift in the building's former garage area, with the oil reservoir likely below the floor in unknown conditions, and (3) former drycleaners and auto shops operating close to the subject property. Additionally, because the subject property building had been constructed prior to 1978, when lead-based paint (LBP) was banned for inside residential structures, presence of LBP in the subject property building was suspected. Moreover, because no documentation was available indicating that the building had been constructed with non-asbestos containing materials, presence of asbestos containing material (ACM) in the building also was suspected. The purposes of this Phase II TBA were to determine if historical activities at the subject property had impacted soils at and around the USTs, to characterize the contents of the USTs, to assess presence of the hydraulic lift oil reservoir and associated contamination, to determine whether building materials contained LBP or ACM, and to determine if historical activities at surrounding properties had impacted groundwater. During this investigation at the subject property, samples were collected of soil, tank materials, and building material to determine environmental impacts. Soil sampling results were compared to Missouri Risk-Based Corrective Action (MRBCA) Risk-Based Target Levels (RBTL).

Findings and recommendations are as follows:

A few RECs were confirmed by sampling during the Phase II TBA. Analyses of samples collected from the subject property revealed the following:

- Concentrations of 1,1-dichloroethane (1,1-DCA) and benzene in some of the subsurface soil samples collected from the base of the West Tank Pit exceeded MRBCA subsurface soil RBTLs protective of indoor inhalation of vapors from subsurface soils for a hypothetic future residential land use scenario assuming a residential building footprint over the former west tank pit. If future residential land use of the site is desired, concerns of vapor intrusion could be addressed by assessing soil vapor concentrations and/or by incorporating mitigating controls (such as a vapor barrier or a vapor mitigation system) in the construction of a future residential structure. For the non-residential use scenario, no subsurface soil concentrations of concern were identified based on comparison to the subsurface soil RBTLs for the non-residential land use scenario.

- Benzo(a)pyrene was detected in the surficial soil sample SB-6 at a concentration exceeding the residential surface soil RBTL. Based on this exceedance, additional sampling of surficial soil (to determine extent of benzo(a)pyrene and other PAH concentrations of concern) and/or mitigating actions to prevent contact with PAH-impacted soils at the site may be desirable depending on the future use of the site.

- As listed in Table 5, two of the five paint chip samples from painted surfaces contained reportable lead concentrations exceeding 0.5 percent by weight.

- As listed in Table 6, ACM sampling confirmed that approximately 300 square feet of floor tile from the subject property building contained 2-3% chrysotile asbestos.

Overall, a comparison of relevant soil sample results to MRBCA Tier 1 RBTLs for residential, non-residential, and construction worker scenarios revealed the aforementioned RECs related to subsurface 1,1-DCA and benzene concentrations and the surficial soil benzo(a)pyrene concentration. The comparison of soil sample results to non-residential and construction worker RBTLs did not reveal any concentrations of concern for a non-residential land use or construction worker scenario. Floor tile was confirmed to contain asbestos at concentrations above 1 percent, and all of the material sampled appeared damaged. Some painted surfaces were confirmed to be LBP at concentrations above 0.5 percent by weight, and all these surfaces were damaged (flaking and peeling). If the building is to be demolished or remodeled, the LBP and ACM identified in Tables 5 and 6 should be abated by a licensed contractor.

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) at the Former Spotless Car Wash at 3300 Wisconsin Avenue in St. Louis, Missouri (subject property). As part of a redevelopment initiative, the St. Louis Land Revitalization Authority (LRA) had requested TBA assistance from EPA Region 7 for assessing current environmental conditions and removal of approximately eight underground storage tanks (UST) at the subject property. The following sections address the background and site history, describe Phase II TBA activities, present and evaluate analytical results, discuss findings, and offer conclusions.

1.1 PURPOSE

The purpose of this Phase II TBA is to determine if historical activities at the subject property and at adjacent properties have impacted the soil and groundwater at the subject property. The subject property includes a vacant building previously used as a service station and mechanic's garage. During this Phase II TBA, samples of soil and structural material were collected to confirm or eliminate recognized environmental conditions (REC) to the subject property (historical releases of contaminants). Based on the age of the subject property building, lead-based paint (LBP) likely was used in its construction. Paint chip samples were also collected to determine if the paint contained lead. Because no documentation was available indicating that the building had been constructed with non-asbestos containing materials, presence of asbestos containing material (ACM) in the building also was suspected. Building materials were sampled to determine if they contained asbestos at concentrations that would require abatement if the building materials would be removed or impacted during a renovation. An inventory of household hazardous waste and hazardous waste present in the building was conducted. Finally, eight USTs were removed by the EPA Emergency and Rapid Response Services (ERRS) contractor during the Phase II TBA, and START collected samples of soil from beneath the tanks and from the side walls after the USTs had been removed. START also collected soil boring samples throughout the subject property.

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II TBA.

2.0 BACKGROUND AND SITE HISTORY

This section provides a brief description of the site: 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 approximately 7,635-square-foot subject property is at 3300 Wisconsin Avenue in St. Louis, Missouri (Figure 1, Appendix A). The subject property includes a vacant building previously used as a service station and mechanic's garage. The subject property is bounded north by Utah Street; east by an alley, with residential properties beyond; south by residential properties; and west by Wisconsin Avenue, with residential properties beyond. No utilities are currently connected to the subject property. The entrance to the subject property building is on the north side.

2.2 PHYSICAL SETTING

The subject property is depicted on the U.S. Geological Survey (USGS) 7.5-minute series Cahokia, Missouri, topographic quadrangle map (USGS 1979); the subject property is approximately 500 feet above mean sea level (amsl). The topographic gradient of the area is generally southeast (Tetra Tech 2014).

2.2.1 Geologic Setting

St. Louis is in east-central Missouri and lies within the gently rolling Central Lowland physiographic province. The sedimentary rocks beneath the region of the subject property consist primarily of the Mississippian rocks that crop out in a wide to narrow band extending from southwestern Missouri to just north of the Missouri River in central Missouri, and as a second, less extensive band in northeastern Missouri parallel to the Mississippi River. Mississippian strata are mostly limestone (commonly cherty) but include some beds of sandstone and shale (USGS 1997).

According to the U.S. Department of Agriculture (USDA) soil survey of St. Louis, Missouri, soils at the subject property are characterized as Urban land, consisting of moderately well-drained silty-clayey loams formed on hillslopes (Tetra Tech 2014).

2.2.2 Hydrogeology

The surficial aquifer system of the region consists of unconsolidated sand and gravel and is divided into three parts: stream-valley aquifers, the Mississippi River Valley alluvial aquifer, and glacial-drift aquifers.

The subject property is in the area of stream-valley aquifers, which consist of narrow bands of fluvial and alluvial sediments that fill or partly fill the valleys of meandering to braided streams that have eroded shallow channels into glacial deposits, older unconsolidated alluvium, or bedrock. The unconsolidated sand and gravel deposits that comprise the stream-valley aquifers are thicker, more widespread, and more productive in the valleys of the larger rivers than those of smaller streams. In Missouri, the stream-valley aquifers along the Missouri and the Mississippi Rivers and their tributaries are important sources of fresh water for many communities and industries. The stream-valley aquifers consist mostly of sand and gravel of Holocene age, but locally include sediments of Pleistocene age. Most water in the stream-valley aquifers is under unconfined, or water-table, conditions. The stream-valley aquifers are in direct hydraulic connection with the adjacent streams, and water levels in the aquifers are thus closely related to river levels. The chemical quality of the water in the stream-valley aquifers generally is suitable for most uses. Typically, the water is hard and a calcium bicarbonate type (USGS 1997).

According to Environmental Data Resources, Inc. (EDR), three wells are within 1 mile of the subject property (Tetra Tech 2014). Within a 0.5-mile radius of the subject property, the database identified one sewer test hole. Within a 1-mile radius of the subject property, the database identified one sewer test hole (147 feet below ground surface [bgs]) and one industrial high-capacity well (69 feet bgs). Groundwater flow could not be determined from available well information. In the absence of site-specific information, other sources of information, such as topographic and hydrologic, may serve as indicators of groundwater flow parameters. Therefore, groundwater may flow southeast from the subject property, along the local topographic gradient and toward the Mississippi River (Tetra Tech 2014).

No known wells are present on the subject property.

2.2.3 Hydrology

The subject property is within the Cahokia-Joachim watershed (USGS Cataloging Unit 07140101) (EPA 2013). Runoff from the subject property generally follows regional topography to the east toward the Mississippi River. Most of the runoff would likely be captured by stormwater inlets near the property. The Mississippi River flows south-southwest and drains the eastern part of St. Louis. The subject property is within 0.7 mile of the 100-year floodplain (Tetra Tech 2014).

2.3 SITE HISTORY AND LAND USE

Currently, the subject property includes a vacant brick building. LRA currently owns the subject property. The garage has been out of operation since before its acquisition in 2011 by LRA.

Aerial photographs show the subject property as developed as early as 1909. According to Sanborn® fire insurance maps, the subject property building was used as two stores and a stable in 1909, and as a filling station in 1950. Ms. Amy Lampe, Major Project Manager of LRA, confirmed historical use of the subject property as a filling station, with the building still present constructed in 1937.

2.4 ADJACENT PROPERTY USE

The subject property is bounded north by Utah Street; east by an alley, with residential properties beyond; south by residential properties; and west by Wisconsin Avenue, with residential properties beyond. According to a review of historical documents, the area surrounding the subject property has been used for residential and commercial purposes similar to the current uses cited above.

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

Tetra Tech completed a Phase I TBA of the subject property in January 2014, identifying the following RECs (Tetra Tech 2014):

- Based on previous Phase I and Phase II reports regarding the subject property, the assumed eight USTs at the subject property pose a REC to the subject property. Although soil testing during the previous Phase II did not confirm presence of contamination, the contents of the USTs have yet to be determined, and the condition of the soil beneath the USTs is unknown.

- According to the previous Phase I report, review of Missouri Department of Natural Resources (MDNR) files and interviews had revealed past complaints of hydrocarbon odors and leaks from UST fill ports, as well as historical presence of a waste oil aboveground storage tank (AST) on the subject property. Additionally, a resident of a building downgradient of the subject property had reportedly complained of gasoline vapors in the resident's basement.

- Based on site reconnaissance and interviews, a hydraulic lift is present in the building's former garage area. The oil reservoir for the lift likely exists below the floor, the condition of the oil reservoir has yet to be determined, and the condition of the soil beneath the reservoir is unknown. Also, according to the previous Phase I, a floor drain exists in the garage, likely discharging to the municipal sanitary sewer. Possibly the floor drain in the garage has contributed to subsurface contamination (PSC 2011). However, because a large amount of debris covered the garage floor during the current site reconnaissance, the floor drain was not observed. Possible presence of the hydraulic lift reservoir and floor drain inside the building on the subject property poses a REC to the subject property.

- Based on historical documents, former drycleaners and auto shops operated close to the subject property. Based on the chemicals used by dry cleaners (particularly tetrachloroethylene [PCE]), common disposal processes of former drycleaners, and common practices of former auto shops, these facilities pose a REC to the subject property.

- Based on site reconnaissance, interviews, and historical documents, the subject property building had been constructed prior to 1978, when LBP was banned for use inside residential structures; therefore, LBP likely had been used in the buildout of the subject property building.

- Based on site reconnaissance, interviews, and historical documents, the subject property garage had been constructed prior to 1980, when use of asbestos containing building material (ACBM) was banned; therefore, ACBM likely had been used in the buildout of the subject property garage.

No other RECs were identified during the Phase I TBA (Tetra Tech 2014).

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The following sections describe the scope of the Phase II TBA and field exploration and methods. Sampling was performed during March 20-24, 2014, by START team members Messrs. Dave Kinroth, Jeffrey Mitchell, Quan Do, and Greg Blattner, and Ms. Christina Engemann. Mr. Mitchell is a Certified Missouri Asbestos and LBP Inspector. The START sampling team was accompanied by Mr. Heath Smith, EPA On-Scene Coordinator.

3.1 SCOPE OF THE ASSESSMENT

START field team members conducted environmental sampling to determine if sub-surficial soil had been impacted by historical activities at the subject property. Additionally, samples of suspected LBP and ACM were collected from the subject property building. Photographs were taken to document the Phase II TBA field activities (see Appendix B). Phase II TBA activities were recorded in a site logbook (see Appendix C). The sampling proceeded in accordance with an approved Quality Assurance Project Plan (QAPP) (Tetra Tech 2013).

3.1.1 Conceptual Site Model and Sampling Plan

The proposed sampling scheme for collection of soil was biased/judgmental in accordance with the *Missouri Risk-Based Corrective Action Process for Petroleum Storage Tanks* (MDNR 2013), and building material asbestos samples were biased/judgmental in accordance with the *National Emissions Standards for Hazardous Air Pollutants* (NESHAP) as adopted by EPA, and Asbestos Hazard and Emergency Response Act of 1986 (AHERA) protocols. The objectives were to characterize possible releases to the environment, and to characterize the soil underneath the former location of the UST, as well as building materials to ensure proper disposal prior to future redevelopment efforts. Eighteen sub-surface soil samples were collected: eight below the locations of the former USTs, two on the downgradient USTs pit walls, and eight at other boring locations. In addition, 24 samples of building materials were submitted for asbestos analysis via polarized light microscopy (PLM), and five paint chip samples were collected and submitted to a laboratory for analysis for lead. Sampling methods and activities are described in Section 3.2. Table 1 summarizes samples collected during the Phase II TBA.

TABLE 1

SUMMARY OF SAMPLES COLLECTED DURING PHASE II TBA ACTIVITIES
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI
March 20-24, 2014

Sample Description	Sample Type	Total Number of Samples and Analyses
Soil below and downgradient of USTs	Soil	Ten samples – VOCs, TPH-GRO, TPH-DRO, PAHs, and lead; EPA Methods 5035/8260, 8270, and 6010
Soil from eight on-site Geoprobe™ borings	Soil	Eight samples – VOCs, TPH-GRO, TPH-DRO, PAHs, and lead; EPA Methods 5035/8260, 8270, and 6010
Potential Asbestos Containing Building Material	Building Material	24 samples – Asbestos by PLM; EPA Method 600/R-93-116
Paint Chips	Paint-Covered Surfaces	Five samples – lead; EPA Method 7000B

Notes:

EPA U.S. Environmental Protection Agency
DRO Diesel-range organics
GRO Gasoline-range organics
PAH Polycyclic aromatic hydrocarbon
PLM Polarized light microscopy
TPH Total petroleum hydrocarbons
UST Underground storage tank
VOC Volatile organic compound

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on potential contaminants associated with historical use of the subject property as a filling station and garage. The soil samples collected during the Phase II TBA activities were analyzed by the ALS Environmental (ALS) laboratory in Holland, Michigan, for volatile organic compounds (VOC) and total petroleum hydrocarbons (TPH)-gasoline-range organics (GRO) in accordance with EPA Methods 5035/8260; TPH-diesel-range organics (DRO) and polycyclic aromatic hydrocarbons (PAH) in accordance with EPA Method 8270; and lead in accordance with EPA SW-846 Method 6010B. Samples of potential ACM were submitted to Quantem Laboratories of Oklahoma City, Oklahoma, for asbestos analysis via PLM in accordance with EPA Method 600/R-93/116. Quantem Laboratories of Oklahoma City, Oklahoma, also analyzed five paint chip samples for lead in accordance with EPA SW-846 Method 7000B.

3.1.3 Deviations from the QAPP

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

- No groundwater was encountered at the eight boring locations where advancement hit refusal at a depth of 16 feet bgs; therefore, no groundwater samples were collected. Because groundwater was not encountered during the investigation, neither a rinsate blank nor a field blank was submitted for analysis.

- Based on a discussion during removal activities with Michael Davis, MDNR Environmental Specialist, only one grab sample from each tank pit was required from the hydraulically downgradient wall because no contamination was visible following removal of the tanks. He also stated that product line samples should be collected by use of a Geoprobe between the tank pits and former pump island, within the 3- to 4-foot bgs interval. No product lines were found from the west tank pit to the island, so one sample location was changed to a location hydraulically downgradient of the former pump island.

- Access to the hydraulic lift oil reservoir and floor drain/piping was not possible without impacting the building. The St. Louis LRA requested that the building remain intact; therefore, the hydraulic lift oil reservoir and floor drain and associated piping were not removed, and the soil beneath was not sampled.

- START collected fewer suspect ACM samples than anticipated. The asbestos inspector was able to complete the survey of the subject property by collecting 24 samples instead of the 60 samples specified in the QAPP.

- START took fewer readings of painted surface than anticipated. The LBP inspector was able to complete the screening of the subject property with 18 readings instead of the 50 specified in the QAPP. As a result, fewer confirmation paint chip samples were required.

- Three samples of the same homogenous ACM were submitted for each potential ACM encountered during the asbestos survey; therefore, duplicate samples were not submitted for quality assurance (QA)/quality control (QC). Due to the poor conditions of the painted surfaces, and the small size of the building on the subject property, an x-ray fluorescence (XRF) spectrometer was not used to field-screen the painted surfaces. Rather, samples of all materials were analyzed for lead in accordance with EPA SW-846 Method 7000B.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the subject property occurred from March 18 to 21, 2014, and continued on March 24, 2014. As noted earlier, groundwater was not encountered at the eight boring locations; therefore, the proposed groundwater samples were not collected. Also, access to the hydraulic lift oil reservoir and floor drain/piping was not possible without impacting the building. LRA requested that the building remain intact; therefore, the hydraulic lift oil reservoir and floor drain and associated piping were not removed, and the soil beneath was not sampled.

3.2.1 Soil Sampling Below USTs

One soil sample was collected from underneath each of the removed USTs during Phase II TBA activities. Grab soil samples were collected from the excavator bucket, with the bucket contents coming from approximately 12 inches below the former location of the UST. Each sample for laboratory analysis included a grab sample for analyses for VOCs and TPH-GRO 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 two 5-gram soil aliquots in separate 40-mL vials 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 an 8-ounce jar for analyses for TPH-DRO, PAHs, and lead. Pertinent data, including sample locations and photoionization detector (PID) readings from the samples' headspaces, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at or below 4 degrees Celsius (°C).

3.2.2 Subsurface Soil Sampling

Soil samples were collected at eight boring locations (SB-1, SB-2, SB- 3, SB-4, SB-5, SB-6, SB-7, and SB-8) to a maximum depth of 16 feet bgs (see Appendix B, Figure 2). Each borehole was advanced using a Geoprobe™ 4-foot-long Macro-Core® 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™ operations. A hand-held 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 analyses for VOC and TPH-GRO collected in accordance with EPA SW 846 Method 5035, and consisted of two 5-gram soil aliquots in separate 40-mL vials preserved with sodium bisulfate, and two 5-gram soil aliquots in separate 40-mL vials 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 an 8-ounce jar for analyses for TPH-DRO, PAHs, and lead. Pertinent data, including PID readings and sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at or below 4 °C.

3.2.3 LBP Screening and Analytical Protocols

Tetra Tech made every effort to inspect all areas of the subject building. The U.S. Department of Housing and Urban development HUD *Guidelines for the Evaluation and Control of LBP in Housing* (1997) suggests that paint applied before 1978 could contain lead.

A screening of suspected LBP was performed according to protocols similar to the single-family housing inspection procedures in the HUD *Guidelines*. In selecting surfaces to be sampled for lead analysis, Tetra Tech performed a surface by surface investigation to identify suspect painted surfaces that possibly would be impacted during renovation/demolition activities. Tetra Tech collected paint chip samples to submit to a laboratory for LBP analysis.

The paint chip samples were collected by use of a 2-square-inch template to accurately measure the sample size. The template was placed on the painted surface where the paint was observed. While held in place manually, the template was outlined with a permanent marker. A clean piece of paper was taped to the bottom of the template to create a funnel effect. The paint inside the template area was scraped off using a small chisel. The paint chip samples were collected in hard plastic containers, labeled, and sealed immediately upon collection. To prevent cross-contamination between samples, the sampling instruments were wiped clean using a wet, lint-free cloth after collection of each sample. A unique sample identification number was assigned to each sample. The inspector took care to ensure that the subject property remained unoccupied during sample collection.

The samples remained in the inspector's custody until sent to the laboratory. Upon completion of sampling activities, the samples were sent, along with Tetra Tech's chain-of-custody documentation, to Quantem in Oklahoma City, Oklahoma. Quantem is a member of the Environmental Lead Lab Accreditation Program (ELLAP). The paint chips collected were analyzed for total lead. Copies of the analytical results and chain-of-custody forms are included in Appendix D.

3.2.4 ACM Field Survey and Analytical Protocols

Bulk samples were collected from accessible building materials suspected to contain asbestos. Most of the building was brick and concrete construction, and no pipe wrap was observed. Selection of sampling locations was based on a site inspection by a certified State of Missouri asbestos inspector. Asbestos samples were collected in accordance with NESHAP as adopted by EPA, and the AHERA protocols. AHERA defines ACM as any building material or product that contains more than 1 percent (%) asbestos. Suspected ACM was grouped as homogeneous areas if the material was similar in appearance and texture;

however, if the inspector decided that a material (for example, wall texturing) was not similar in appearance and texture to other materials in the building, the inspector distinguished the material as unique and collected samples of each unique material accordingly.

Bulk samples of suspected ACM were collected to ensure that each distinct layer of material was represented in the sample. Bulk samples were collected with sampling devices appropriate for the suspect building materials. A coring device was used to collect interior and exterior wall and roof samples. A wetting agent was applied to friable surfaces prior to sample collection to reduce the potential for fiber release. All samples collected were placed in plastic bags, labeled, and sealed immediately upon collection. To prevent cross-contamination between samples, the sampling instrument was wiped clean using a wet, lint-free cloth after collection of each sample. A unique sample identification number was assigned to each sample. Upon completion of sampling activities, the samples were sent, along with Tetra Tech's chain-of-custody documentation, to Quantem in Oklahoma City, Oklahoma for analysis for asbestos by PLM in accordance with EPA Method 600. All samples were handled and analyzed according to SOPs and methods referenced in the QAPP form.

3.2.5 Household Hazardous Waste and Hazardous Waste Inventory

Tetra Tech completed an inventory of household hazardous waste and other potentially hazardous waste in the subject property building. This inventory included but was not limited to the following types of materials: thermostats and fluorescent light bulbs possibly containing mercury, fluorescent light ballasts potentially containing polychlorinated biphenyls (PCB), emergency lighting and exit signs that house batteries containing heavy metals, appliances containing Freon, product containers holding hazardous materials (such as cleaning supplies, paint, etc.), and any other household hazardous waste items that may need to be removed prior to renovation or demolition of the facility.

Tetra Tech made every effort to provide a complete inventory of these items; however, given the disorderly distribution of these items inside the subject property building, Tetra Tech cannot guarantee an accounting of every container. The exterior of the building was not included in this inventory (excluding air conditioning units), based on the professional judgment of the assessment team. Items on the subject property which would not be affected during any renovation or demolition activities—for example, pole-mounted transformers that may contain PCBs—were not accounted for during the inventory. It should be noted that the assessment team did walk the perimeter of the subject property building to identify any drums or other large containers that may contain hazardous waste; at the time of this assessment, no materials fitting this description were identified outside the subject property building.

3.2.6 Quality Control Sampling

Three samples of the same homogenous ACM were submitted for each potential ACM encountered during the asbestos survey; therefore, duplicate samples were not submitted for QA/QC. Due to the poor conditions of the painted surfaces, and the small size of the building on the subject property, an XRF spectrometer was not used to field-screen the painted surfaces. Rather, samples of all materials were analyzed for lead in accordance with EPA SW-846 Method 7000B. Because groundwater was not encountered during the investigation, neither a rinsate blank nor a field blank was submitted for analysis. A trip blank was submitted to be analyzed for VOCs.

4.0 EVALUATION AND PRESENTATION OF RESULTS

Sections 4.1, 4.2, and 4.3 summarize the analytical data from the soil, LBP, and ACM samples collected during the Phase II TBA. The complete analytical data packages are included as Appendix D.

4.1 SOIL SAMPLES

Soil sample results from this TBA were compared to Missouri Risk-Based Corrective Action (MRBCA) Risk-Based Target Levels (RBTL) (MDNR 2013). Because the type of future land use for the site is uncertain, the soil sample results were first compared to RBTLs for a residential land use scenario (the land use scenario with the most restrictive RBLTs). Where sample results exceeded a residential land use RBTL, the results were further compared to RBTLs for the non-residential land use scenario. In addition, the construction worker scenario was evaluated.

The following pathway-specific MRBCA Tier 1 RBTLs were compared to the soil sample concentrations:

- **Subsurface Soil – Inhalation of Vapor Emissions (residential and non-residential land use).** These RBTLs are protective of the indoor inhalation of vapor emissions from subsurface soil. All soil samples were compared to these RBTLs (see Appendix E, Tables E-1, E-2, and E-3).
- **Surficial Soil – Ingestion, Inhalation, and Dermal Contact (residential and non-residential land use)**. These RBTLs are protective of exposure to surficial soils and consider the ingestion, outdoor inhalation (of vapor emissions and particulates), and dermal contact pathways. Per the MRBCA process (MRBCA 2013), soil samples collected from 0 to 3 feet bgs were considered surficial soil and compared to the surficial soil RBTLs (see Appendix E, Table E-3).
- **Construction-Depth Soil – Construction Worker.** These RBTLs are protective of worker exposure to soil that could be encountered during construction activities. All soil samples were compared to these RBTLs (see Appendix E, Tables E-1, E-2, and E-3).

Because the City of St. Louis Groundwater Ordinance 66777 prohibits the use of groundwater as a potable water supply within the corporate limits of the City of St. Louis, the domestic use of groundwater pathway is not complete at the site (MDNR 2006); therefore, soil sample results were not compared to soil RBTLs protective of domestic groundwater.

The subsections that follow compare the soil sample results to the aforementioned MRBCA Tier 1 RBTLs with respect to residential, non-residential, and construction worker scenarios.

4.1.1 Residential Land Use Scenario

The relevant Tier 1 RBTLs for assessing the residential land use scenario included: (1) the residential subsurface soil RBTLs for all soil samples (see Appendix E, Tables E-1, E-2, and E-3) and (2) the residential surficial soil RBTLs for surficial soil samples (see Appendix E, Table E-3). Comparing the soil sample results to these Tier 1 RBTLs revealed these analytes exceeding residential RBTLs:

- 1,1-dichloroethane (1,1-DCA) and benzene in several soil samples collected from the West Tank Pit exceeded subsurface soil RBTLs for residential land use (see Table 2 and Appendix E, Table E-1).
- Benzo(a)pyrene was detected in surficial soil sample SB-6 at a concentration exceeding the surficial soil RBTL for residential land use (see Appendix E, Table E-3).

These exceedances of residential RBTLs were evaluated further as discussed below.

Evaluation of the Indoor Inhalation of Vapors from Subsurface Soil Pathway for 1,1-DCA and Benzene

The presence of 1,1-DCA and benzene in soil samples from the West Tanks Pit were further evaluated by calculating a representative concentration as described in the MRBCA Process for Petroleum Storage Tanks Technical Guidance, Appendix E (MDNR 2013). The concentrations among the "West Tank Pit" samples were averaged and compared to the subsurface Tier 1 RBTLs for the residential scenario (see Table 2 and Appendix E, E-4) to evaluate the potential future indoor inhalation pathway of a hypothetical structure constructed over the area of the former west tank pit. This yielded a representative benzene concentration below the subsurface soil RBTL for residential land use, but, a representative concentration for 1,1-DCA still exceeding this RBTL. Thus, the 1,1-DCA concentrations warranted additional evaluation.

TABLE 2

1,1-DCA AND BENZENE IN WEST TANK PIT SAMPLES
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Analyte	MRBCA Tier 1 Subsurface Soil RBTL for Residential Land Use	West Tank Pit Sample Name					Average
		Tank 1 Floor	Tank 2 Floor	Tank 3 Floor	Tank 4 Floor	West Tank Pit Wall	
1,1-DCA	**0.922**	**2.9**	0.3	**2.3**	**1.4**	0.022	**1.38**
Benzene	**0.378**	**0.57**	0.077	**0.49**	0.35	0.0015 J	0.30

Notes:

Bolded result indicates a concentration exceeding the MRBCA Tier 1 Subsurface Soil RBTL for residential land use.

1,1-DCA 1,1-Dichloroethane
MRBCA Missouri Risk-Based Corrective Action Process for Petroleum Storage Tanks
RBTL Risk-Based Target Level

The 1,1-DCA concentrations were additionally evaluated by calculating a site-specific RBTL. It was noted that the depth of West Tank Pit samples was deeper (12 to 16 feet bgs) than the default depth to subsurface soil sources parameter of 3 feet (91.44 centimeters) used to calculate the Tier 1 subsurface soil RBTL. The site-specific 1,1-DCA RBTL was calculated using a depth to subsurface soil sources of 15 feet (457.2 cm)—the approximate depth from which the West Tank Pit samples were obtained (see Appendix F). This calculation yielded a site-specific 1,1-DCA RBTL of 0.943 mg/kg (a value not significantly higher than the Tier 1 RBTL is 0.922 mg/kg) which remains exceeded by the representative 1,1-DCA concentration of 1.38 mg/kg.

To assess the magnitude of potential health concerns related to the 1,1-DCA soil concentrations and a hypothetical residence constructed over the former West Tank Pit, the soil concentrations were evaluated in terms of risk. The subsurface RBTL for 1,1-DCA is based on carcinogenic risk; therefore, the carcinogenic risk corresponding to the representative 1,1-DCA concentration among the West Tank Pit samples was calculated. In addition, carcinogenic risks corresponding to other detected VOCs (where carcinogenic risk is the predominant risk associated with the analyte) among the West Tank Pit samples were calculated to account for potential contribution to the cumulative cancer risk (see Appendix E, Table E-4). Table 3 summarizes the results of this calculation.

TABLE 3

POTENTIAL RISK FOR A HYPOTHETICAL RESIDENCE OVER THE WEST TANK PIT FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Analyte[1]	**Cancer Risk Corresponding to Representative Analyte Concentration[2]**
1,1-DCA	1.5E-05
Benzene	7.9E-06
Chloroethane	1.2E-07
Methylene chloride	1.1E-08
Cumulative Cancer Risk Corresponding to Representative VOC Concentrations in the West Tank Pit Subsurface Soil Samples	2.3E-05

Notes:

[1] These analytes were detected among the West Tank Pit samples and have RBTLs based on carcinogenic risk.
[2] Cancer risk corresponding to the representative analyte concentration and assuming a residential land use scenario. See Appendix E, Table E-4.

1,1-DCA 1,1-Dichloroethane

For the MRBCA process, the acceptable carcinogenic risk for individual chemicals is 1E-05 or less and 1E-04 or less for the cumulative site-wide risk (MDNR 2006a). The calculated cancer risk corresponding to the representative 1,1-DCA concentration among the West Tank Pit samples is 1.5E-05—above the MRBCA process goal of 1E-05 for individual chemicals; however, the calculated cumulative cancer risk (for the subsurface soil to indoor inhalation pathway) of 2.3E-05 is considered an acceptable carcinogenic risk by the MRBCA process.

Overall, comparison of the soil sample results to RBTLs protective of the indoor inhalation of vapor emissions from subsurface soil indicate potential 1,1-DCA concentrations of concern in subsurface soil for a hypothetic future residential land use scenario (and assuming a hypothetical residential building footprint over the former west tank pit). If future residential land use of the site is desired, these potential concerns could be address by assessing soil vapor concentrations of 1,1-DCA (and other VOCs) and/or by incorporating mitigating controls (such as a vapor barrier) in the construction of a future residential structure.

Evaluation of Benzo(a)pyrene in Surficial Soil

Comparison of the surficial soil RBTLs for residential land use to the surficial soil sample collected (SB-6) revealed a benzo(a)pyrene concentration (1.5 mg/kg) that exceeded its surficial soil residential RBTL

(0.620 mg/kg). Benzo(a)pyrene is an SVOC that is in a category of compounds referred to as polycyclic aromatic hydrocarbon (PAH).

To assess the magnitude of potential health concerns related to the benzo(a)pyrene soil concentration assuming a residential scenario, the benzo(a)pyrene concentration was evaluated in terms of risk. The subsurface RBTL for benzo(a)pyrene is based on carcinogenic risk; therefore, the carcinogenic risk corresponding to benzo(a)pyrene concentration in the surficial sample SB-6 was calculated. In addition, carcinogenic risks corresponding to other detected PAHs (where carcinogenic risk is the predominant risk associated with the analyte) in sample SB-6 were calculated to account for potential contribution to the cumulative cancer risk (see Appendix E, Table E-5). Table 4 summarizes the results of this calculation.

TABLE 4

POTENTIAL RISK ASSOCIATED WITH PAHS IN SURFICIAL SOIL
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

PAH[1]	**Cancer Risk Corresponding to PAH Concentration in Surficial Soil Sample SB-6[2]**
Benzo(a)pyrene	2.4E-05
Benzo(a)anthracene	2.1E-06
Benzo(b)fluoranthene	3.2E-06
Benzo(k)fluoranthene	1.1E-07
Chrysene	2.3E-08
Dibenzo(a,h)anthracene	6.1E-06
Indeno(1,2,3-cd)pyrene	4.0E-06
Naphthalene	8.8E-08
Cumulative Cancer Risk Corresponding to PAH concentrations in Surficial Soil Sample SB-6	4.0E-05

Notes:

[1] These PAHs were detected in the SB-6 surficial soil sample and have RBTLs based on carcinogenic risk.
[2] Cancer risk corresponding to the PAH concentration and assuming a residential land use scenario. See Appendix E, Table E-5.

PAH Polycyclic aromatic hydrocarbon

The calculated cancer risk of 2.4E-05 corresponding to the benzo(a)pyrene concentration in sample SB-6 exceeds the MRBCA process acceptable carcinogenic risk for individual chemicals of 1E-05 or less. The calculated cumulative cancer risk that considers the contribution of risk from other detected PAHs in sample SB-6 is 4.0E-05. This value compares favorably to the MRBCA process goal of 1E-04 or less for

site-wide cumulative cancer risk (MDNR 2006a); however, additional surficial soil sample would likely be necessary to sufficiently define the extent of PAH concentration in surficial soil.

Overall, based on the benzo(a)pyrene concentration identified in sample from SB-6 which exceeded the residential surface soil RBTL, additional sampling of surficial soil (to determine extent of benzo(a)pyrene and other PAH concentrations of concern) and/or mitigating actions to prevent contact with PAH-impacted soils at the site may be desirable depending on the future use of the site.

4.1.2 Non-Residential Land Use Scenario

Comparison of the non-residential RBTLs to the relevant soil sampling results did not reveal any concentrations of concern for a non-residential land use scenario (see Appendix E, Tables E-1, E-2, and E-3).

4.1.3 Construction Worker Scenario

Comparison of the construction work RBTLs to the relevant soil sampling results did not reveal any concentrations of concern for the construction worker scenario (see Appendix E, Tables E-1, E-2, and E-3).

4.2 LBP FINDINGS

The laboratory report in Appendix D indicates the results from the LBP samples. The laboratory results are summarized in Table 5. Bolded results in the table indicate paint chip sample results above 0.5 percent by weight.

TABLE 5

SUMMARY OF LBP SCREENING
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Sample No.	Paint Color	Location	Component	Substrate	Condition	Laboratory Analytical Result (%)
LBP-1	White	West Side	Wall	Plaster	Poor	0.00919
LBP-2	White	East Side	Wall	Brick	Poor	0.569
LBP-3	White	Exterior	Wall	Wood	Fair	0.0218
LBP-4	White	Exterior	Wall	Wood	Fair	<0.00509
LBP-5	White	Interior	Garage Doors	Wood	Poor	0.925

Notes:

<	Less than laboratory reporting limit
%	Percent
LBP	Lead-based paint
No.	Number

4.3 ACM FINDINGS

The laboratory report in Appendix D conveys PLM results from the ACM samples collected at the subject property building, which are summarized in Table 6. Bolded results in Table 6 indicate where asbestos was detected at concentration greater than 1 percent. Locations of ACM and confirmed ACMs are shown on Figure 3 in Appendix A.

TABLE 6

SUMMARY OF SUSPECT ACM LABORATORY ANALYSIS
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Figure Key	Sample ID	Material Description	Material Locations	Analytical Result (% ACM*)	Quantity
1	S-PLSC-1	Plaster/Plaster Skim Coat	Walls Over Brick	ND	NA
2	S-PLSC-2	Plaster/Plaster Skim Coat	Walls Over Brick	ND	
3	S-PLSC-3	Plaster/Plaster Skim Coat	Walls Over Brick	ND	
4	**S-FT-1**	**Light Gray Floor Tile/Black Mastic**	**Interior – West Room**	**FT: 3% - Chry Mastic: ND**	**150 SF**
5	**S-FT-2**	**Light Gray Floor Tile/Black Mastic**	**Interior – West Room**	**FT: 3% - Chry Mastic: ND**	
6	**S-FT-3**	**Light Gray Floor Tile/Black Mastic**	**Interior – West Room**	**FT: 3% - Chry Mastic: ND**	
7	**S-FT2-1**	**Dark Gray Floor Tile/Black Mastic**	**Interior – West Room**	**FT: 2% - Chry Mastic: ND**	**150 SF**
8	**S-FT2-2**	**Dark Gray Floor Tile/Black Mastic**	**Interior – West Room**	**FT: 3% - Chry Mastic: ND**	
9	**S-FT2-3**	**Dark Gray Floor Tile/Black Mastic**	**Interior – West Room**	**FT: 3% - Chry Mastic: ND**	
10	S-WG-1	Window Glaze	Windows – East Side	ND	NA
11	S-WG-2	Window Glaze	Windows – East Side	ND	
12	S-WG-3	Window Glaze	Windows – East Side	ND	
13	S-RM-1	Roof Material	Roof	ND	NA
14	S-RM-2	Roof Material	Roof	ND	
15	S-RM-3	Roof Material	Roof	ND	
16	S-DW-1	Drywall	South Room	ND	NA
17	S-DW-2	Drywall	South Room	ND	
18	S-DW-3	Drywall	South Room	ND	
19	S-CTM-1	Ceramic Tile Mastic	Bathrooms	ND	NA
20	S-CTM-2	Ceramic Tile Mastic	Bathrooms	ND	
21	S-CTM-3	Ceramic Tile Mastic	Bathrooms	ND	
22	S-LIN-1	Linoleum	West Room	ND	NA
23	S-LIN-2	Linoleum	West Room	ND	
24	S-LIN-3	Linoleum	West Room	ND	

Notes:

Bolded result indicates that ACM was detected.

* AHERA defines ACM as any material or product that contains more than 1 percent asbestos.

%	Percent	ID	Identification
ACM	Asbestos-containing material	NA	Not applicable
AHERA	Asbestos Hazard and Emergency Response Act of 1986	ND	Not detected
Chry	Chrysotile asbestos	SF	Square Feet

4.4 HOUSEHOLD HAZARDOUS WASTE AND HAZARDOUS WASTE INVENTORY FINDINGS

The only household hazardous waste item observed during the inventory was a fluorescent light ballast potentially containing PCBs.

4.5 QUALITY CONTROL SAMPLES

A trip blank was submitted to be analyzed for VOCs.

Analytical Results

Methylene chloride was detected in the trip blank, but no VOC was detected in soil samples at a concentration exceeding a screening level.

5.0 DISCUSSION OF FINDINGS AND CONCLUSIONS

This section addresses the findings and conclusions of the Phase II TBA field activities.

5.1 RECOGNIZED ENVIRONMENTAL CONDITIONS

A few RECs were confirmed by sampling during the Phase II TBA. Analyses of samples collected from the subject property revealed the following:

- Concentrations of 1,1-DCA and benzene in some of the subsurface soil samples collected from the base of the West Tank Pit exceeded MRBCA subsurface soil RBTLs protective of indoor inhalation of vapors from subsurface soils for a hypothetic future residential land use scenario assuming a residential building footprint over the former west tank pit. If future residential land use of the site is desired, concerns of vapor intrusion could be address by assessing soil vapor concentrations and/or by incorporating mitigating controls (such as a vapor barrier or a vapor mitigation system) in the construction of a future residential structure. For the non-residential use scenario, no subsurface soil concentrations of concern were identified based on comparison to the subsurface soil RBTLs for the non-residential land use scenario.

- Benzo(a)pyrene was detected in the surficial soil sample SB-6 at a concentration exceeding the residential surface soil RBTL. Based on this exceedance, additional sampling of surficial soil (to determine extent of benzo(a)pyrene and other PAH concentrations of concern) and/or mitigating actions to prevent contact with PAH-impacted soils at the site may be desirable depending on the future use of the site.

- As listed in Table 5, two of the five paint chip samples from painted surfaces contained reportable lead concentrations exceeding 0.5 percent by weight.

- As listed in Table 6, ACM sampling confirmed that approximately 300 square feet of floor tile from the subject property building contained 2-3% chrysotile asbestos.

5.2 AFFECTED MEDIA

Soil sample results were compared to MRBCA Tier 1 RBTLs for residential, non-residential, and construction worker scenarios. Based on this comparison, two items of potential concern were identified for a residential land use scenario: (1) subsurface soil concentrations of 1,1-DCA and benzene may indicate concerns of vapor intrusion for residential land use scenarios and (2) the detected concentration of benzo(a)pyrene in a surficial soil sample indicates potential concern for exposure to surficial soil under a residential scenario. Comparison of the non-residential and construction worker RBTLs to the relevant soil sampling results did not reveal any concentrations of concern for a non-residential land use or construction worker scenario. Floor tile was confirmed to contain asbestos at concentrations above 1 percent, and all of the material sampled appeared damaged. Some painted surfaces were confirmed to be LBP at concentrations above 0.5 percent by weight, and all these surfaces were damaged (flaking and peeling).

If the building is to be demolished or remodeled, the LBP and ACM identified in Tables 5 and 6 should be abated by a licensed contractor.

6.0 REFERENCES

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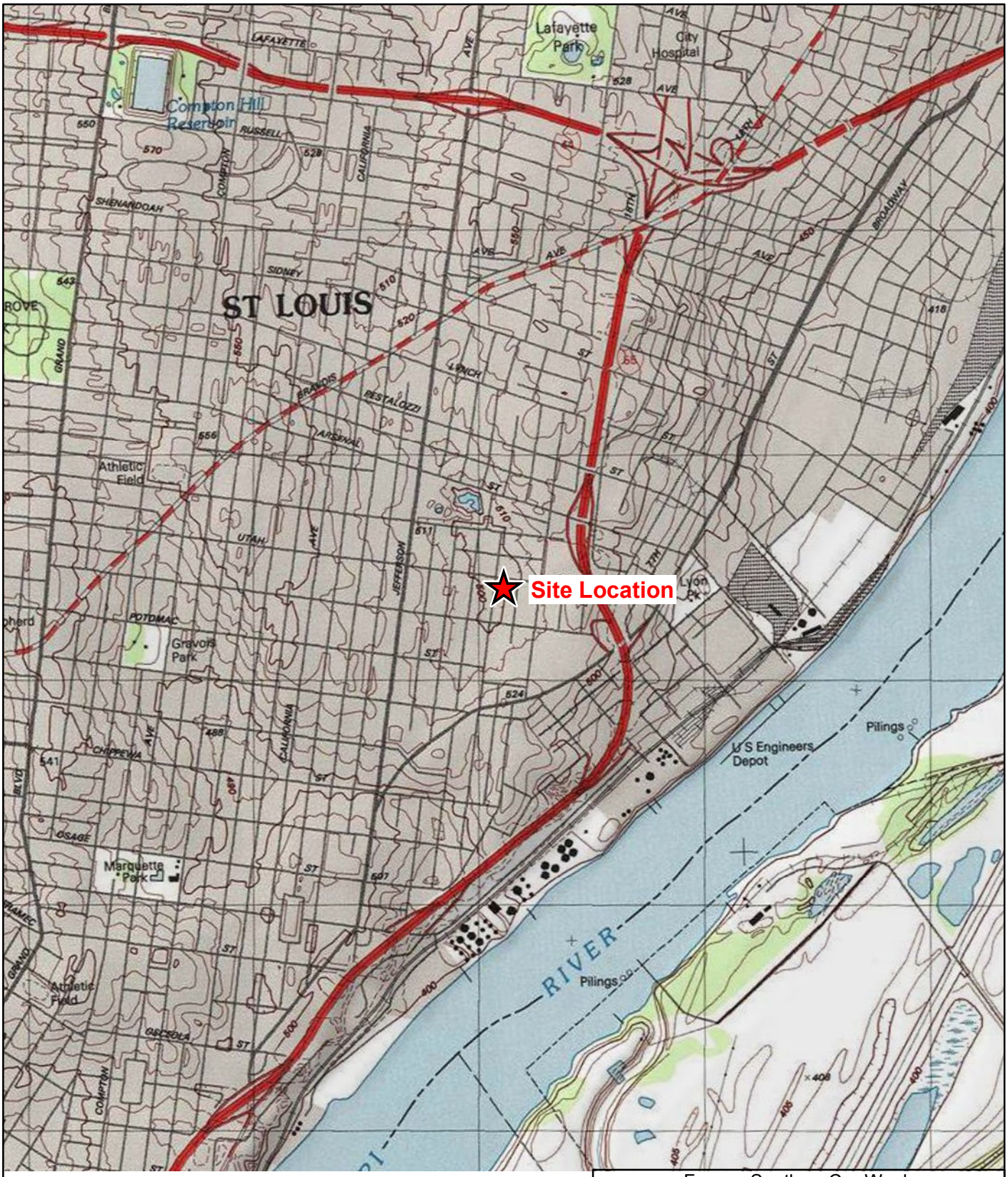
APPENDIX A

FIGURES



N

0 1,000 2,000

Feet

Source: USGS Cahokia, MO 7.5 Minute Topo Quad, 1976 and PR 1979

Former Spotless Car Wash
3300 Wisconsin Avenue
St. Louis, Missouri

Figure 1

Site Location Map

TETRA TECH

Date: 6/30/2014 Drawn By: Bill Spiking Project No: X9025.14.0002.002.017

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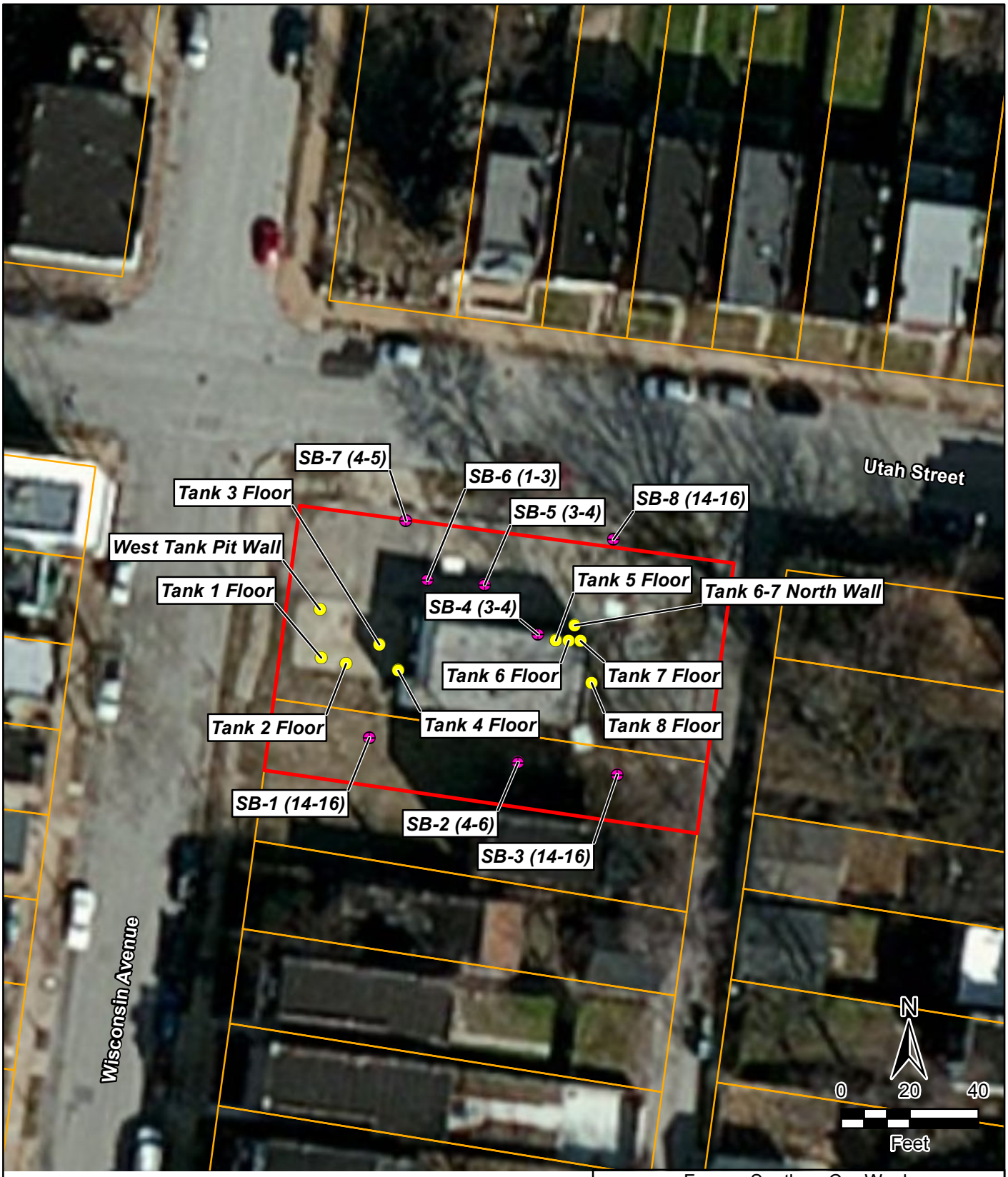

Legend

- Soil boring sample location — SB Soil boring
- Soil sample location — (4-6) Depth in feet
- Parcel boundary
- Site boundary

Source: ArcGIS Online World Imagery, 2012

Former Spotless Car Wash
3300 Wisconsin Avenue
St. Louis, Missouri

Figure 2
Soil Sample Location Map

TETRA TECH

Date: 6/30/2014 Drawn By: Nick Wiederholt Project No: X9025.14.0002.002.017

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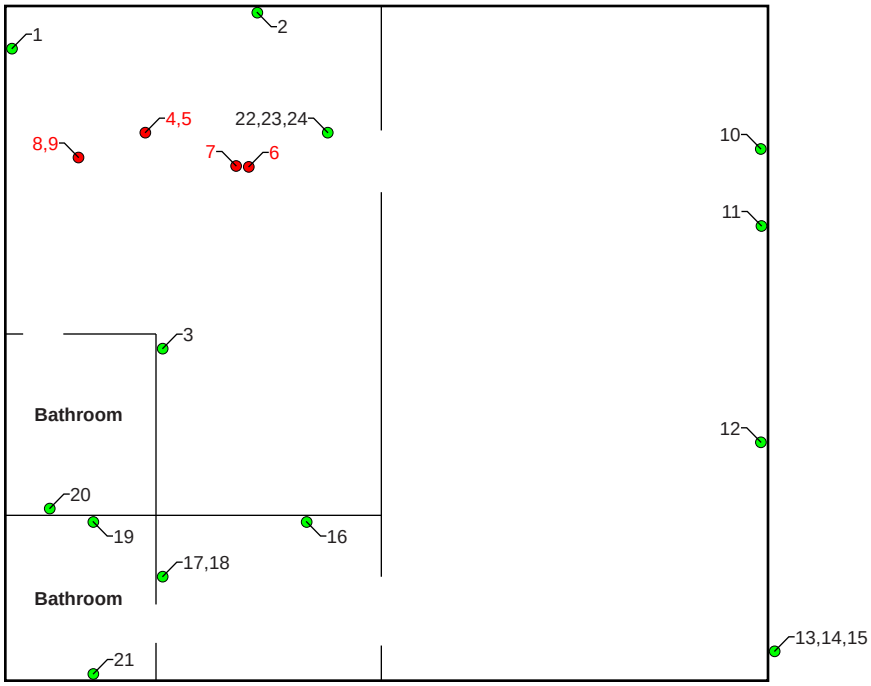
Sample Key Table

Key	Sample No.
Asbestos	
1	S-PLSC-1
2	S-PLSC-2
3	S-PLSC-3
4	S-FT-1
5	S-FT-2
6	S-FT-3
7	S-FT2-1
8	S-FT2-2
9	S-FT2-3
10	S-WG-1
11	S-WG-2
12	S-WG-3
13	S-RM-1
14	S-RM-2
15	S-RM-3
16	S-DW-1
17	S-DW-2
18	S-DW-3
19	S-CTM-1
20	S-CTM-2
21	S-CTM-3
22	S-LIN-1
23	S-LIN-2
24	S-LIN-3



Legend

- Asbestos Containing Material Sample Location
- Non-asbestos Containing Material Sample Location

NOT TO SCALE

Note: Refer to Sample Key Table for corresponding sample numbers.

Former Spotless Car Wash
3300 Wisconsin Avenue
St. Louis, Missouri

Figure 3
Asbestos Sample Location Map

TETRA TECH

Date: 6/30/2014 Drawn By: Nick Wiederholt Project No: X9025.14.0002.002.017

X:\G\9025\0002\017\FH10\Figure3_PhaseII.FH10

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: East	DESCRIPTION	This photograph shows the start of the underground storage tank (UST) removal activities at the west tank pit, on the west side of the building at the Former Spotless Car Wash project site.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/18/14
	PHOTOGRAPHER	Dave Kinroth	

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: Southeast	DESCRIPTION	This photograph shows the uncovered west tank pit on the west side of the building, including Tanks 1 through 4, with Tank 4 being the closest to the building. All tanks were found to contain liquid.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/18/14
	PHOTOGRAPHER	Heath Smith	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: NA	DESCRIPTION	This photograph shows liquid samples obtained from Tanks 1 through 4 and submitted to Teklab, Inc. for profile analyses to determine proper disposal methods.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/18/14
	PHOTOGRAPHER	Heath Smith	

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: East	DESCRIPTION	This photograph shows stockpiled soil removed from the west tank pit and used as fill for the pit after the tanks were removed.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/18/14
	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the exploration efforts to find the USTs on the east side of the building.	5
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
DIRECTION: West	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the location of Tank 8 in the east tank pit. The tank was empty.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
DIRECTION: West	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the continued exploration for the remaining three tanks on the east side of the building.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
DIRECTION: Southeast	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the location of Tank 7 in the east tank pit.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
DIRECTION: West	PHOTOGRAPHER	Heath Smith	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the liquid observed in Tank 7, assumed to be waste oil.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
DIRECTION: East	PHOTOGRAPHER	Heath Smith	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the removal of the liquid from Tank 7 via vacuum.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
DIRECTION: Northwest	PHOTOGRAPHER	Heath Smith	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: West	DESCRIPTION	This photograph shows the location of Tank 6 in the east tank pit.	11
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
	PHOTOGRAPHER	Heath Smith	

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: South	DESCRIPTION	This photograph shows the fill ports for Tank 6 and Tank 5 in the east tank pit.	12
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: Northwest	DESCRIPTION	This photograph shows the stockpiled soil removed from the east tank pit and used as fill for the east tank pit after the tanks were removed.	13
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017 DIRECTION: North	DESCRIPTION	This photograph shows the process of removing the liquid from Tanks 1 through 4.	14
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/19/14
	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the removal of the former pump island on the north side of the building.	15
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: East	PHOTOGRAPHER	Dave Kinroth	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	An open trench was observed under the former pump island, perhaps previously connected to the city storm sewer system.	16
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: South	PHOTOGRAPHER	Dave Kinroth	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the removal of Tank 5 from the east tank pit.	17
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: East	PHOTOGRAPHER	Dave Kinroth	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows Tank 5 after being removed from the east tank pit.	18
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: Northwest	PHOTOGRAPHER	Dave Kinroth	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the floor of the excavated area for Tank 5.	19
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: East	PHOTOGRAPHER	Dave Kinroth	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the removal of Tank 8 from the east tank pit.	20
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: West	PHOTOGRAPHER	Heath Smith	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the removal of Tank 7 from the east tank pit.	21
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: South	PHOTOGRAPHER	Dave Kinroth	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the removal of Tank 7 from the east tank pit.	22
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: Southeast	PHOTOGRAPHER	Dave Kinroth	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the floor of the excavated east tank pit.	23
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/20/14
DIRECTION: East	PHOTOGRAPHER	Heath Smith	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows Tank 4 after being removed from the west tank pit.	24
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: Southwest	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the floor of the excavated area for Tank 4 in the west tank pit.	25
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: South	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the floor of the excavated area for Tank 3 in the west tank pit.	26
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: Southwest	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows Tank 2 from the west tank pit.	27
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: West	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the floor of the excavated area for Tank 2 in the west tank pit.	28
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: Southwest	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows Tank 1 from the west tank pit.	29
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: West	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the floor of the excavated area for Tank 1 in the west tank pit.	30
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: South	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the northwest corner of the west tank pit that was sampled.	31
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/21/14
DIRECTION: North	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-1 (14-16) sample location.	32
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: Northeast	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-2 (4-6) sample location.	33
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: East	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-3 (14-16) sample location.	34
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: East	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-4 (3-4) sample location.	35
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: South	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-5 (3-4) sample location.	36
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: Northwest	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-6 (1-3) sample location.	37
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: Southeast	PHOTOGRAPHER	Christina Engemann	

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-7 (4-5) sample location.	38
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: Southeast	PHOTOGRAPHER	Christina Engemann	

Former Spotless Car Wash
St. Louis, Missouri

TETRA TECH PROJECT NO. X9025.14.0002.017	DESCRIPTION	This photograph shows the SB-8 (14-16) sample location.	39
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/24/14
DIRECTION: Southwest	PHOTOGRAPHER	Christina Engemann	

APPENDIX C

SITE LOGBOOK

Former Spotless Car Wash
Targeted Brownfields Assessment
X9025.14.0002.017

"Rite in the Rain"®
ALL-WEATHER
LEVEL
No. 311

X9025.14.0002.017

3-10-14 Former Spotless Car Wash

Tetra Tech START has been tasked to conduct a Phase II Targeted Brownfields Assessment (TBA) at the former Spotless Car Wash site at 3300 Wisconsin Ave in St. Louis, MO to assess potential impacts on the subject property from hazardous substances that may have been released into the soil & groundwater - the TBA is to include assessment of the building on site for asbestos containing material (ACM) and lead based paint (LBP) - soil sampling beneath removed underground storage tanks (USTs) that stored gasoline or diesel fuel as well as additional soil and groundwater sampling on site to check for releases of hazardous material from the USTs and potential for off site migration - the assigned START project manager was Rob Morning (Tetra Tech KC) and Christy Engemann (Tetra Tech St. Louis) is the co-team leader - myself = Dave Kinroth with Seagull Environmental Technologies

Dave Kinroth 3-10-14

TO 0002.017

3-10-14

Inc. (SETI - START St. Louis) will also provide site staffing support

- Jeff Mitchell with Tetra Tech KC will perform/lead the ACM and LBP investigation sampling of the building materials & surfaces

14:45 STM Dave Kinroth on site to conduct site reconnaissance walk with EPA OSC Heath Smith and EPA ERAS Contractor Project Manager Dennis Wilson with Environmental Restoration LLC (ER)

- Property / Vacant lot South of Building - need to verify if St. Louis Land Reutilization Authority (LRA) owns this property and can we stage UST Tank pull materials here ???
- EPA & ER state they will not intend to remove the hydraulic lift rack structure from the building during this effort
- Vent Pipes from USTs located on south wall outside the building will not be excavated during the tank pull due to proximity with gas lines →

go to Next page

3-10-14 : Former Spotless Car Wash TBA
→ too close to Laclede Gas Company underground pipe lines that were marked by One Call → vent pipes will only be cut off and filled and left in place near this area
- START recommended post-pavement of Geoprobe sampling until ER completes the tank pulls & sampling is done & backfilled tank pits with gravel - EPA & ER Agree
16800 End Site Walk & return to SETI office - tank pull is scheduled to begin Monday 3-17-14 meet on site ~ 09:00 hours

Dave Kimoth
3-10-14

Tues 3-18-14 X9025.14.0002.017
0825 - STM Dave Kimoth on site to meet ER to begin tank pull operations for TBA sampling underneath tank pits today - ER PM Dennis Wilson & Butch Wilson operator on site plus two other laborers - preparing to cut concrete at West Tank Pit area & break overlying concrete with Bobcat & Hammer attachment
0845 OSC Heath Smith on site for EPA oversight -
ER Equipment on site - summary
- 2 pickups
- 1 2.5 ton stakebed truck (may be smaller) ~1.5 ton?
- Bobcat w/ Hammer Tool & Bucket/Forks
- Concrete Saw
- Compactor unit for backfill
- Komatsu Excavator PC 200 w/ large bucket
- 2 x 15 cu yd roll-off boxes
0900 START reviews site safety plan again this morning
0950 ER Crew continues breaking concrete pad over West tank pit location - have called in a water truck to provide dust suppression Dave Kimoth 3-18-14

3-18-14 Former Spotless Car wash TBA
10:30 tanks in tank pit 1 are under about 5-6 feet of sand fill in the pit sand will be stockpiled and sampled to see if it can be put back in the hole after tanks are pulled.
10:50 STM Christy Engemann on site to resume ~~start~~ oversight & sampling duties
11:20 Left the Departs. site.
11:45 ER begins placing concrete debris in the rolloff containers and fencing the site.
1200 Lunch
1235 Continue oversight of removal activities.
1257 Dumptruck arrives on site to begin removal of concrete debris.
1340 ER begins removal of sand from Tank Pit #1, and is stockpiling on polyvinyl sheeting on site. Will sample to determine if available for use as fill.
1405 Begin using PID as sand is being removed to check for any VOC readings.
1423 Four tanks uncovered and vents

3-18-14 cont'd Former Spotless Carwash TBA
removed. All four tanks in Tank Pit #1 contain liquid, ER is calling for a vac truck to remove the liquids. Will attempt to take to Illini for disposal. VOC readings range from 0 - 2.1 ppm.
1450 DSC Smith & ER obtain samples from all four tanks in the West Pit.
West Tank Pit #1 VOC/PID reading: 3.7 ppm
1453 " #2 " : 39.2 ppm
1455 " #3 : 5.4 ppm
1457 " #4 " : 820 ppm
The samples will be submitted to TekLab by ER to determine the contents. West Tank Pit #4 is dark and oily in color, with a high odor. Tank #1 is adjacent to Wisconsin Ave, and Tank #4 is adjacent to the west side of the building on the subject property.
1519 Collect sand-backfill sample for ER to submit to TekLab to be analyzed for PAHs and BTEX, to see if the sand can be used as fill once the tanks are removed.

3-18-14 cont'd Former Spotless Carwash TBA

1535 Excavation of the East Tank Pit will commence tomorrow. ER is constructing a berm around, fence, & place equipment around the West Tank Pit to limit access from trespassers over night. OSC Smith & STM Engemann departs the site.

1600 STM Engemann arrives at EPA to pick up additional supplies for sampling.

1615 Depart EPA. End of Day.

OTL
3-18-14

3-19-14 Former Spotless Carwash TBA

0820 STM Engemann departs TT office for the Site.

0845 Arrive on site and meet STM Mitchell who will conduct LBP & asbestos sampling. Observe excavation of the east tank Pit.

0857 ER reports the tanks are not in the location expected. They will continue to dig & search for tank indicators.

0914 ER takes a break from excavation so STM Mitchell can enter the building & sample.

0945 STM Mitchell completes paperwork for the samples, CoC, & departs for FedEx for sample delivery.

0947 One tank uncovered in the East Tank Pit. Potentially the only tank.

1004 Additional trench to the North did not reveal any additional tanks. No visual contamination observed.

1028 Additional small, round tank discovered below the three pipes

3-19-14 Former Spotless Carwash TBA
and the NE corner of the building.
City personnel stopped by the site,
and stated they want all tanks
found and removed if possible. ER
will continue search for additional tanks
West across the front of the building.
1125 Further exploration reveals it is a
large tank, contents of the tank are
dark in color & appears to be oil.
1145 Third tank observed further west
along the front of the building.
Exploration for more tanks will
continue after lunch.
1155 Break for lunch
1230 ER Vac truck arriving. ER clears
soil from top of tanks in east pit
to allow access for Vac truck.
Liquid oil observed after removal.
Operator does not believe he punctured
the tank. Vac operation commence.
1341 Vac up the oil spill and remove
the remaining liquids with pads.
ER removed ~1,000 gallons of
oil for recycling from the tank.

3-19-14 Former Spotless Carwash TBA
1419 Fourth tank found, it's empty with
only residual sludge and rust, same
for tank #3 in the East Pit.
Continue excavation an additional
~10' to the west, to ensure no
additional tanks.
1431 ER begins pumping the liquid out
of the tanks from the West Tank Pit.
The contents from one & three are
going to be combined, and four
will be separate.
1445 Collect a composite sample of
the soil removed from the East
Tank Pit to submit to TekLab
for ER to determine if can be used
as fill after the tanks are removed.
1451 Continue monitoring the pumping
of the tanks contents in the West
Tank Pit with the PID. No
readings of VOCs were observed
above 0.1 ppm. Most of Tank #2
and some of Tank #1 were pumped
into four, 300 gallon totes.
Additional totes will be brought

3-19-14 Former Spotless Carwash TBA to the site in the morning by ER to continue emptying the ~~tank~~ tanks.

1540 STM Kinroth arrives on site. He was briefed on activities and we transferred sampling supplies so he is prepared to do overnight tomorrow

1600 STM Fugimann departs the site to deliver the soil sample from the last pit to TekLab.

1620 All personnel ERRS & START depart site for the day

Dave Kinroth
3-19-14

3-20-14 TO 0002.017

0755 STM Dave Kinroth on site - ER Crew receiving load of totes to continue pumping tank contents this morning - review safety plan & prepare to air monitor with PID & LEL Meter during liquids transfer

815 STM reviews ER lab data vs. MRBCA Default target levels for tank pit sand -

0830 Sand from tank pit is clean and can be put back in the hole after tanks are pulled as compared to MRBCA Default target levels for BTEX & PAH -

Now review tank liquids samples - this data will be used by ER to arrange disposal of tank liquids - tanks 1-3 were composited & tank 4 has higher levels of BTEX than 1-3 composite

ER Crew continue pumping off West Tanks #1-3

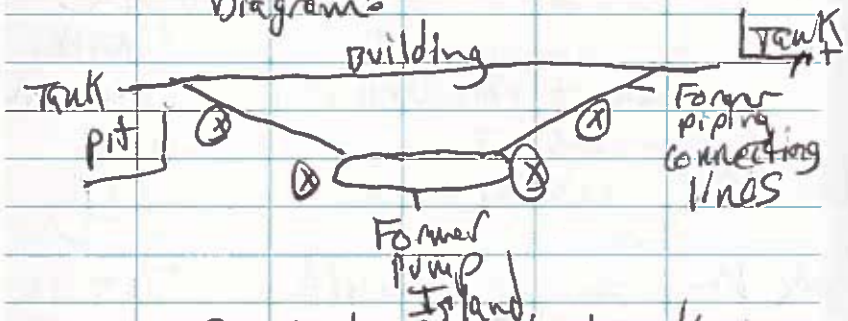
0925 ER Crew pumping off tank #4 with higher BTEX Levels into separate totes - START continues VOC air monitoring in the vicinity of pumping operations

3-20-14 Former Spotless Carwash TBA
9:45 ER has a dump truck on site loading out a load of concrete that was removed from the tank pit areas for the tank pull operations
10:45 ER Crew Removed Pump Station Island for sampling of the area underneath with Geoprobe Next week
11:12 ER pulls tank 5 from East tank pit in front of over head doors - westernmost tank of East Pit designated as tank 5
11:28 Kinroth samples native soil from underneath tank 5
11:33 Pulling Tank 6 from East pit now
11:42 Sample Soil Floor under tank #6 from East pit
11:45 ER loading 2nd Dump Truck of Concrete Rubble from site today for disposal off site
12:10 ER Break for Lunch
Totes of Liquids pumped off from west tank pits were 6 from 1,2,3 and 5 and a partial 6th from Tank 4

3-20-14 TO 0002.017
12:15 STM Christy Engemann arrives on site to assist this afternoon
1235 START & EPA break for lunch
1320 ER Pulls tank #7 from East tank pit 2 - get ready to sample floor underneath
1345 Tank #7 pulled & prepare to sample floor - then will collect sidewall sample between tank 6 & 7 on North wall
13:50 Tank 7 Floor Sampled by STM Kinroth
14:05 Sample N wall of East tank Pit, 1 foot below tank base level - on N. Wall toward Wisconsin Avenue between tanks 6-7 - depth 10-12 feet
14:25 Record deviations to the QAPP for sampling on site based on requirements of Michael Davis and MDNR Hazardous Waste / UST Program -
① If no staining is observed below tanks or on the tank pit walls - we only need 1 wall sample 1 foot below floor level on the down gradient side of the pit - not 1 sample for each tank

3-20-14 Former Spotless Carwash TBA
Deviations to the QAPP Continued
② Need 4 Geoprobe Samples around pump Island - two from each end of the island and two under attached piping line areas that run SW and SE of the island

Diagram:



⊗ = Geo probe Sample locations - get soil 3-4 feet deep

14:30 Christy Engemann departs site to get ice for sample storage
14:55 Pack Samples on ice for storage on ice in a cooler tonight
15:10 STM Kinoth prepares to leave site for the day - ER Crew dressing up site to prepare for Tank Pit #1 tanks full tomorrow

3-20-14 Former Spotless Carwash TBA
15:15 Transfer supplies to STM Engemann's vehicle.
15:25 Marian Smith from the Benton Park housing committee stops by the site. She is briefed on what has taken place so far. She observed the site from outside the site boundaries.
16:00 STMs Engemann & Kinoth depart the site. End of Day.

AE
3-20-14

3-21-14 Former Spotless Carwash

08:09 STM Engemann arrives on site. ER pulling Tank 4 in the West Pit.

08:18 Collect Sample from Tank 4 Floor

08:27 Begin pulling Tank 3 from the West Pit.

08:44 Collect sample from Tank 3 Floor

08:49 ER begins pulling Tank 2 from the West Pit.

08:53 Collect sample from Tank 2 Floor

08:55 ER begins pulling Tank 1 from the West Pit. Some liquid still in tank. ER pumps liquid out prior to disposal.

09:05 Collect sample from Tank 1 Floor from the West Pit. PID readings range from 0-0.2 ppm at the edge of the pit.

09:20 Collect sample from West Pit Sidewall, on the NW corner, ~1' below tank.

09:30 STM Engemann departs job site for another project site.

11:05 STM Engemann arrives back on site, and reviews analytical results for

3-21-14 Former Spotless Carwash

the soil from the East Pit to ensure acceptable as use for fill. All results are below the MRBCA default levels except Benzo(a)pyrene, with a result of 1.24 mg/Kg and a TC of 0.62 mg/Kg. After a discussion with Michael Davis of MDNR, he stated the soil would be allowed as backfill as long as below non-residential levels. The non-residential level is 2.1 mg/Kg, so the soil is acceptable as fill for the East Tank pit.

12:05 STM Engemann continues labeling & prepping samples from this morning. Headspace readings for VOCs via the PID are as follows:

Tank 2 Floor: 1.1 ppm
Tank 1 Floor: 4.5 ppm
Tank 3 Floor: 5.2 ppm
Tank 4 Floor: 6.0 ppm
West Pit Wall: 0.0 ppm

Note: Samples were slightly moist at time of collection.

1300 STM Engemann departs the site

3-21-14 Former Spotless Carwash TBA
for the TT office in Fenton. ER
currently backfilling the pits and
removing debris from the site.
Backfilling will continue tomorrow.
1330 STM Engemann arrives at office,
unloads supplies & preps for Geoprobe
Sampling on Monday. Samples taken
yesterday & today will be held at
the required temperature over the
weekend & shipped with the additional
samples on Monday.
1510 End of Day.

UE
3-21-14

3-24-14 Former Spotless Carwash TBA
10:30 STMs Engemann + Blattner
meet at TT office in Fenton &
pack supplies for sampling.
10:55 Depart for site - stop for ice
for samples.
11:20 Arrive at site & meet STM Quan
Do with Seagull to Geoprobe.
11:30 Lunch
12:05 Back on site. Begin set-up to
Geoprobe.
12:31 Begin probing SB-1 at SW
corner of site. Take Photos.

Depth	PID/VOC ppm	
0-4'	0.0	Fill/Debris
4-8'	0.0	4-7' Fill
		7-8' Sand/Moist Clay
8-12'	0.0	Brown Clay
12-16'	0.0	Brown Clay / Fill
16- N.A	→	

Bedrock at 16' bgs.
1304/Will collect sample from 14'-16' interval
38.59419 N 90.22042 W. SB-1(14-16)
1311 Begin probing SB-2. 0-4' Fill, 0 ppm.
Refusal at ~6'. Will move back

3-24-14 Former Spotless Carwash TBA
west and re-try.
Note: Soil samples include:
4-4oz Vials w/ Methanol - 5g soil
2-4oz Vials w/ sodium phosphate tribasic - 5g soil
1-% Moisture No preservative
1-8oz No preservative

1322 Second attempt at SB-2, same results. Hit sand/gravel/rock at ~4', and refusal at 6'. 38.59425°N, -90.22224°W.

1329 Will sample 4-6' Depth. 0-6' is Fill. Brown clay. SB-2 (4-6)

1333 Begin SB-3. 38.59420°N, -90.22015°W

Depth	PID/VOC (ppm)	Descip.
0-4'	0.0	Brown Clay
4-8'	0.0	"
8-12'	0.0	"
12-16'	0.0	"

Refusal at 16' bgs.

1403 Collect Sample from 14-16'. SB-3 (14-16)

1422 Begin probing 0-4' at SB-4 to address piping locations. 38.59431°N, -90.22020°W.

1432 Collect Sample from 3-4' bgs. SB-4 (3-4)
0-6" concrete, 0.5-4' Brown Clay.

3-24-14 Former Spotless Carwash TBA
No PID/VOC readings.

1435 Begin probing 0-4' at SB-5.
38.59439°N, -90.22028°W

1441 Collect Sample SB-5 (3-4') to address piping/island location.
0-6" Sand, 0.0 ppm
0.5'-4' Brown clay, 0.0 ppm.

1444 Begin probing SB-6 (~~3-4'~~ 0-1') to address piping/island location.
0-1' Sand, 4.4 ppm
2-4' Brown Clay, Fill.

1449 Sample from 1-3' interval.
38.59435, -90.22035°W.

1504 Begin probing SB-7. Will probe to attempt to obtain groundwater, but will sample 3-4' interval to address piping/island issues unless PID/VOC readings occur. 38.59451°N, -90.22034°W
0-4' all Fill, 0.0 ppm
4-8' Fill, Brown clay, 0.0 ppm
8-12' Brown clay, 0.0 ppm
12-13' "
Refusal at 13' bgs.

1534 Collect SB-7 (4-5), due to Fill at 3-4'.

3-24-14 Former Spotless Carwash TBA.

1536 Begin probing SB-8.
38.57436°N, -90.22268°W.
0-4' Brown Clay, 0.0 ppm
4-8' " " "
8-12' " "
12-16' " "
Refusal at 16'. Will Sample from 14-16'

1603 SB-8 (14-16').

1625 STMs Blattner, Engemann, & Do depart the Site.

1645 STMs Blattner & Engemann arrive at TT office in Fenton & Unload Supplies.

1705 STM Engemann preps samples for shipment & completes paperwork.

1840 STM Engemann brings samples to FedEx for shipment to ALS Laboratory.
End of Day.

CHE
3-24-14

APPENDIX D

CHAIN-OF-CUSTODY RECORDS, FIELD SHEETS, AND ANALYTICAL RESULTS

03-Apr-2014

Christina Engermann
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Spotless Car Wash March 2014** Work Order: **14031107**

Dear Christina,

ALS Environmental received 19 samples on 25-Mar-2014 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 103.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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ALS Group USA, Corp

Date: 03-Apr-14

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Work Order: **14031107**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14031107-01	Tank 5 Floor	Soil		3/20/2014 11:28	3/25/2014 10:00	☐
14031107-02	Tank 6 Floor	Soil		3/20/2014 11:42	3/25/2014 10:00	☐
14031107-03	Tank 8 Floor	Soil		3/20/2014 13:35	3/25/2014 10:00	☐
14031107-04	Tank 7 Floor	Soil		3/20/2014 13:50	3/25/2014 10:00	☐
14031107-05	Tank 6-7 North Wall	Soil		3/20/2014 14:05	3/25/2014 10:00	☐
14031107-06	Tank 4 Floor	Soil		3/21/2014 08:18	3/25/2014 10:00	☐
14031107-07	Tank 3 Floor	Soil		3/21/2014 08:44	3/25/2014 10:00	☐
14031107-08	Tank 2 Floor	Soil		3/21/2014 08:53	3/25/2014 10:00	☐
14031107-09	Tank 1 Floor	Soil		3/21/2014 09:05	3/25/2014 10:00	☐
14031107-10	West Tank Pit Wall	Soil		3/21/2014 09:20	3/25/2014 10:00	☐
14031107-11	SB-1 (14-16)	Soil		3/24/2014 13:04	3/25/2014 10:00	☐
14031107-12	SB-2 (4-6)	Soil		3/24/2014 13:29	3/25/2014 10:00	☐
14031107-13	SB-3 (14-16)	Soil		3/24/2014 14:03	3/25/2014 10:00	☐
14031107-14	SB-4 (3-4)	Soil		3/24/2014 14:32	3/25/2014 10:00	☐
14031107-15	SB-5 (3-4)	Soil		3/24/2014 14:41	3/25/2014 10:00	☐
14031107-16	SB-6 (1-3)	Soil		3/24/2014 14:49	3/25/2014 10:00	☐
14031107-17	SB-7 (4-5)	Soil		3/24/2014 15:34	3/25/2014 10:00	☐
14031107-18	SB-8 (14-16)	Soil		3/24/2014 16:03	3/25/2014 10:00	☐
14031107-19	Trip Blank	Soil		3/24/2014	3/25/2014 10:00	☐

ALS Group USA, Corp

Date: 03-Apr-14

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Work Order: 14031107

Case Narrative

Samples for the above noted Work Order were received on 03/25/2014. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch 56907 sample SB-7 (4-5) MS/MSD recoveries for Dibromochloromethane were below the control limit. The corresponding reporting limit in the parent sample may be biased low. The RPD between the MS/MSD recoveries for Bromomethane was above control limits. The individual MS/MSD recoveries met quality control criteria. No data requires qualification.

Batch R137748 LCS recovery for 4-Methyl-2-pentanone was outside of the upper control limit. All samples in this quality control batch were ND. 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 R137906 LCS recovery for MTBE was outside of the upper control limit. All samples in this quality control batch were ND. No qualification is necessary for MTBE.

All samples run with TSP preservative had a low surrogate recovery for Dibromofluoromethane which was caused by interference with the preservation. No data requires qualification.

Batch R138030 MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

Extractable Organics :
No deviations or anomalies noted.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies noted.

ALS Group USA, Corp

Date: 03-Apr-14

Client: Tetra Tech
Project: Spotless Car Wash March 2014
WorkOrder: **14031107**

QUALIFIERS, ACRONYMS, UNITS

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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 5 Floor
Collection Date: 3/20/2014 11:28 AM

Work Order: 14031107
Lab ID: 14031107-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**8.1**		**0.0017**	**0.43**	**mg/Kg-dry**	1	3/30/2014 07:05
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	3/31/2014 23:00
ORO (C21-C35)	U		1.7	3.5	mg/Kg-dry	1	3/31/2014 23:00
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	3/31/2014 23:00
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.0	µg/Kg-dry	1	3/31/2014 23:00
2-Methylnaphthalene	U		3.3	8.0	µg/Kg-dry	1	3/31/2014 23:00
Acenaphthene	U		1.2	8.0	µg/Kg-dry	1	3/31/2014 23:00
Acenaphthylene	U		1.5	8.0	µg/Kg-dry	1	3/31/2014 23:00
Anthracene	U		1.6	8.0	µg/Kg-dry	1	3/31/2014 23:00
Benzo(a)anthracene	U		1.6	8.0	µg/Kg-dry	1	3/31/2014 23:00
Benzo(a)pyrene	U		2.6	8.0	µg/Kg-dry	1	3/31/2014 23:00
Benzo(b)fluoranthene	U		2.4	8.0	µg/Kg-dry	1	3/31/2014 23:00
Benzo(g,h,i)perylene	U		3.2	8.0	µg/Kg-dry	1	3/31/2014 23:00
Benzo(k)fluoranthene	U		1.7	8.0	µg/Kg-dry	1	3/31/2014 23:00
Chrysene	U		1.9	8.0	µg/Kg-dry	1	3/31/2014 23:00
Dibenzo(a,h)anthracene	U		3.0	8.0	µg/Kg-dry	1	3/31/2014 23:00
Fluoranthene	U		2.8	8.0	µg/Kg-dry	1	3/31/2014 23:00
Fluorene	U		2.7	8.0	µg/Kg-dry	1	3/31/2014 23:00
Indeno(1,2,3-cd)pyrene	U		2.7	8.0	µg/Kg-dry	1	3/31/2014 23:00
Naphthalene	U		3.0	8.0	µg/Kg-dry	1	3/31/2014 23:00
Phenanthrene	U		1.6	8.0	µg/Kg-dry	1	3/31/2014 23:00
Pyrene	U		2.7	8.0	µg/Kg-dry	1	3/31/2014 23:00
Surr: 2-Fluorobiphenyl	*89.1*			*12-100*	*%REC*	1	3/31/2014 23:00
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	3/31/2014 23:00
Surr: Nitrobenzene-d5	*86.0*			*37-107*	*%REC*	1	3/31/2014 23:00
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	3/26/2014 14:58
Surr: Toluene-d8	*96.2*			*70-130*	*%REC*	1	3/26/2014 14:58
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.24	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,1,2,2-Tetrachloroethane	U		0.16	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,1,2-Trichloroethane	U		0.21	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,1,2-Trichlorotrifluoroethane	U		0.31	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,1-Dichloroethane	U		0.28	5.6	µg/Kg-dry	0.916	3/26/2014 15:47

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 5 Floor
Collection Date: 3/20/2014 11:28 AM

Work Order: 14031107
Lab ID: 14031107-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.25	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,2,4-Trichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,2-Dibromo-3-chloropropane	U		0.22	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,2-Dibromoethane	U		0.23	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,2-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,2-Dichloroethane	U		0.31	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,2-Dichloropropane	U		0.29	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,3-Dichlorobenzene	U		0.21	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
1,4-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
2-Butanone	U		0.86	11	µg/Kg-dry	0.916	3/26/2014 15:47
2-Hexanone	U		0.33	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
4-Methyl-2-pentanone	U		0.22	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Acetone	**24**		**1.0**	**11**	**µg/Kg-dry**	0.916	3/26/2014 15:47
Benzene	U		0.28	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Bromodichloromethane	U		0.23	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Bromoform	U		0.17	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Bromomethane	U		0.39	11	µg/Kg-dry	0.916	3/26/2014 15:47
Carbon disulfide	U		0.41	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Carbon tetrachloride	U		0.23	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Chlorobenzene	U		0.25	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Chloroethane	U		0.63	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Chloroform	U		0.29	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Chloromethane	U		0.34	11	µg/Kg-dry	0.916	3/26/2014 15:47
cis-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
cis-1,3-Dichloropropene	U		0.20	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Cyclohexane	U		0.36	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Dibromochloromethane	U		0.19	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Dichlorodifluoromethane	U		0.37	11	µg/Kg-dry	0.916	3/26/2014 15:47
Ethylbenzene	U		0.21	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Isopropylbenzene	U		0.21	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
m,p-Xylene	U		0.42	2.8	µg/Kg-dry	0.916	3/26/2014 15:47
Methyl acetate	U		0.90	11	µg/Kg-dry	0.916	3/26/2014 15:47
Methyl tert-butyl ether	U		0.28	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Methylcyclohexane	U		0.31	11	µg/Kg-dry	0.916	3/26/2014 15:47
Methylene chloride	**1.7**	J	**0.32**	**5.6**	**µg/Kg-dry**	0.916	3/26/2014 15:47
o-Xylene	U		0.22	2.8	µg/Kg-dry	0.916	3/26/2014 15:47
Styrene	U		0.20	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Tetrachloroethene	U		0.33	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Toluene	**0.42**	J	**0.26**	**5.6**	**µg/Kg-dry**	0.916	3/26/2014 15:47
trans-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.916	3/26/2014 15:47

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 5 Floor
Collection Date: 3/20/2014 11:28 AM

Work Order: 14031107
Lab ID: 14031107-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.916	3/26/2014 15:47
Trichloroethene	U		0.26	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Trichlorofluoromethane	U		1.3	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Vinyl chloride	U		0.34	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Xylenes, Total	U		0.64	5.6	µg/Kg-dry	0.916	3/26/2014 15:47
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.916	3/26/2014 15:47
Surr: 4-Bromofluorobenzene	*96.6*			*75-120*	*%REC*	0.916	3/26/2014 15:47
Surr: Dibromofluoromethane	*27.6*	S		*85-115*	*%REC*	0.916	3/26/2014 15:47
Surr: Toluene-d8	*95.2*			*85-120*	*%REC*	0.916	3/26/2014 15:47
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**18**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 6 Floor
Collection Date: 3/20/2014 11:42 AM

Work Order: 14031107
Lab ID: 14031107-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**8.3**		**0.0016**	**0.41**	**mg/Kg-dry**	1	3/30/2014 07:11
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.6	3.6	mg/Kg-dry	1	3/31/2014 23:25
ORO (C21-C35)	U		1.7	3.6	mg/Kg-dry	1	3/31/2014 23:25
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	3/31/2014 23:25
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.3	µg/Kg-dry	1	3/31/2014 23:25
2-Methylnaphthalene	U		3.4	8.3	µg/Kg-dry	1	3/31/2014 23:25
Acenaphthene	U		1.2	8.3	µg/Kg-dry	1	3/31/2014 23:25
Acenaphthylene	U		1.5	8.3	µg/Kg-dry	1	3/31/2014 23:25
Anthracene	U		1.6	8.3	µg/Kg-dry	1	3/31/2014 23:25
Benzo(a)anthracene	U		1.6	8.3	µg/Kg-dry	1	3/31/2014 23:25
Benzo(a)pyrene	U		2.7	8.3	µg/Kg-dry	1	3/31/2014 23:25
Benzo(b)fluoranthene	U		2.4	8.3	µg/Kg-dry	1	3/31/2014 23:25
Benzo(g,h,i)perylene	U		3.2	8.3	µg/Kg-dry	1	3/31/2014 23:25
Benzo(k)fluoranthene	U		1.7	8.3	µg/Kg-dry	1	3/31/2014 23:25
Chrysene	U		2.0	8.3	µg/Kg-dry	1	3/31/2014 23:25
Dibenzo(a,h)anthracene	U		3.1	8.3	µg/Kg-dry	1	3/31/2014 23:25
Fluoranthene	U		2.9	8.3	µg/Kg-dry	1	3/31/2014 23:25
Fluorene	U		2.8	8.3	µg/Kg-dry	1	3/31/2014 23:25
Indeno(1,2,3-cd)pyrene	U		2.8	8.3	µg/Kg-dry	1	3/31/2014 23:25
Naphthalene	U		3.0	8.3	µg/Kg-dry	1	3/31/2014 23:25
Phenanthrene	U		1.7	8.3	µg/Kg-dry	1	3/31/2014 23:25
Pyrene	U		2.8	8.3	µg/Kg-dry	1	3/31/2014 23:25
Surr: 2-Fluorobiphenyl	*86.6*			*12-100*	*%REC*	1	3/31/2014 23:25
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	3/31/2014 23:25
Surr: Nitrobenzene-d5	*84.7*			*37-107*	*%REC*	1	3/31/2014 23:25
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,600	3,100	µg/Kg-dry	1	3/26/2014 15:25
Surr: Toluene-d8	*96.0*			*70-130*	*%REC*	1	3/26/2014 15:25
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.25	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,1,2,2-Tetrachloroethane	U		0.16	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,1,2-Trichloroethane	U		0.22	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,1,2-Trichlorotrifluoroethane	U		0.31	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,1-Dichloroethane	U		0.29	5.7	µg/Kg-dry	0.907	3/26/2014 16:14

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 6 Floor
Collection Date: 3/20/2014 11:42 AM

Work Order: 14031107
Lab ID: 14031107-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.26	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,2,4-Trichlorobenzene	U		0.23	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,2-Dibromo-3-chloropropane	U		0.22	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,2-Dibromoethane	U		0.23	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,2-Dichlorobenzene	U		0.23	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,2-Dichloroethane	U		0.31	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,2-Dichloropropane	U		0.29	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,3-Dichlorobenzene	U		0.21	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
1,4-Dichlorobenzene	U		0.24	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
2-Butanone	**4.2**	J	**0.87**	**11**	**µg/Kg-dry**	0.907	3/26/2014 16:14
2-Hexanone	U		0.34	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
4-Methyl-2-pentanone	U		0.22	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Acetone	**33**		**1.1**	**11**	**µg/Kg-dry**	0.907	3/26/2014 16:14
Benzene	U		0.28	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Bromodichloromethane	U		0.23	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Bromoform	U		0.17	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Bromomethane	U		0.40	11	µg/Kg-dry	0.907	3/26/2014 16:14
Carbon disulfide	U		0.42	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Carbon tetrachloride	U		0.23	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Chlorobenzene	U		0.25	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Chloroethane	U		0.64	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Chloroform	U		0.30	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Chloromethane	U		0.35	11	µg/Kg-dry	0.907	3/26/2014 16:14
cis-1,2-Dichloroethene	U		0.34	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
cis-1,3-Dichloropropene	U		0.20	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Cyclohexane	U		0.36	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Dibromochloromethane	U		0.19	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Dichlorodifluoromethane	U		0.38	11	µg/Kg-dry	0.907	3/26/2014 16:14
Ethylbenzene	U		0.22	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Isopropylbenzene	U		0.22	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
m,p-Xylene	U		0.43	2.8	µg/Kg-dry	0.907	3/26/2014 16:14
Methyl acetate	U		0.91	11	µg/Kg-dry	0.907	3/26/2014 16:14
Methyl tert-butyl ether	U		0.29	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Methylcyclohexane	U		0.31	11	µg/Kg-dry	0.907	3/26/2014 16:14
Methylene chloride	**1.9**	J	**0.32**	**5.7**	**µg/Kg-dry**	0.907	3/26/2014 16:14
o-Xylene	U		0.23	2.8	µg/Kg-dry	0.907	3/26/2014 16:14
Styrene	U		0.21	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Tetrachloroethene	U		0.34	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Toluene	**0.42**	J	**0.27**	**5.7**	**µg/Kg-dry**	0.907	3/26/2014 16:14
trans-1,2-Dichloroethene	U		0.33	5.7	µg/Kg-dry	0.907	3/26/2014 16:14

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 6 Floor
Collection Date: 3/20/2014 11:42 AM

Work Order: 14031107
Lab ID: 14031107-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.907	3/26/2014 16:14
Trichloroethene	U		0.26	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Trichlorofluoromethane	U		1.3	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Vinyl chloride	U		0.35	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Xylenes, Total	U		0.65	5.7	µg/Kg-dry	0.907	3/26/2014 16:14
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.907	3/26/2014 16:14
Surr: 4-Bromofluorobenzene	*98.1*			*75-120*	*%REC*	0.907	3/26/2014 16:14
Surr: Dibromofluoromethane	*17.6*	S		*85-115*	*%REC*	0.907	3/26/2014 16:14
Surr: Toluene-d8	*96.2*			*85-120*	*%REC*	0.907	3/26/2014 16:14
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**20**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 8 Floor
Collection Date: 3/20/2014 01:35 PM

Work Order: 14031107
Lab ID: 14031107-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**9.1**		**0.0019**	**0.48**	**mg/Kg-dry**	1	3/30/2014 07:17
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	3/31/2014 23:50
ORO (C21-C35)	U		1.7	3.5	mg/Kg-dry	1	3/31/2014 23:50
Surr: 4-Terphenyl-d14	*117*			*25-137*	*%REC*	1	3/31/2014 23:50
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.1	µg/Kg-dry	1	3/31/2014 23:50
2-Methylnaphthalene	U		3.4	8.1	µg/Kg-dry	1	3/31/2014 23:50
Acenaphthene	U		1.2	8.1	µg/Kg-dry	1	3/31/2014 23:50
Acenaphthylene	U		1.5	8.1	µg/Kg-dry	1	3/31/2014 23:50
Anthracene	U		1.6	8.1	µg/Kg-dry	1	3/31/2014 23:50
Benzo(a)anthracene	U		1.6	8.1	µg/Kg-dry	1	3/31/2014 23:50
Benzo(a)pyrene	U		2.6	8.1	µg/Kg-dry	1	3/31/2014 23:50
Benzo(b)fluoranthene	U		2.4	8.1	µg/Kg-dry	1	3/31/2014 23:50
Benzo(g,h,i)perylene	U		3.2	8.1	µg/Kg-dry	1	3/31/2014 23:50
Benzo(k)fluoranthene	U		1.7	8.1	µg/Kg-dry	1	3/31/2014 23:50
Chrysene	U		1.9	8.1	µg/Kg-dry	1	3/31/2014 23:50
Dibenzo(a,h)anthracene	U		3.0	8.1	µg/Kg-dry	1	3/31/2014 23:50
Fluoranthene	U		2.8	8.1	µg/Kg-dry	1	3/31/2014 23:50
Fluorene	U		2.7	8.1	µg/Kg-dry	1	3/31/2014 23:50
Indeno(1,2,3-cd)pyrene	U		2.7	8.1	µg/Kg-dry	1	3/31/2014 23:50
Naphthalene	U		3.0	8.1	µg/Kg-dry	1	3/31/2014 23:50
Phenanthrene	U		1.6	8.1	µg/Kg-dry	1	3/31/2014 23:50
Pyrene	U		2.7	8.1	µg/Kg-dry	1	3/31/2014 23:50
Surr: 2-Fluorobiphenyl	*81.2*			*12-100*	*%REC*	1	3/31/2014 23:50
Surr: 4-Terphenyl-d14	*117*			*25-137*	*%REC*	1	3/31/2014 23:50
Surr: Nitrobenzene-d5	*77.3*			*37-107*	*%REC*	1	3/31/2014 23:50
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,600	3,200	µg/Kg-dry	1	3/26/2014 15:52
Surr: Toluene-d8	*95.4*			*70-130*	*%REC*	1	3/26/2014 15:52
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.25	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,1,2,2-Tetrachloroethane	U		0.16	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,1,2-Trichloroethane	U		0.22	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,1,2-Trichlorotrifluoroethane	U		0.31	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,1-Dichloroethane	U		0.29	5.6	µg/Kg-dry	0.904	3/26/2014 16:40

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 8 Floor
Collection Date: 3/20/2014 01:35 PM

Work Order: 14031107
Lab ID: 14031107-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.25	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,2,4-Trichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,2-Dibromo-3-chloropropane	U		0.22	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,2-Dibromoethane	U		0.23	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,2-Dichlorobenzene	U		0.23	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,2-Dichloroethane	U		0.31	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,2-Dichloropropane	U		0.29	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,3-Dichlorobenzene	U		0.21	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
1,4-Dichlorobenzene	U		0.24	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
2-Butanone	**3.8**	J	**0.86**	**11**	**µg/Kg-dry**	0.904	3/26/2014 16:40
2-Hexanone	U		0.34	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
4-Methyl-2-pentanone	U		0.22	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Acetone	**35**		**1.1**	**11**	**µg/Kg-dry**	0.904	3/26/2014 16:40
Benzene	U		0.28	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Bromodichloromethane	U		0.23	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Bromoform	U		0.17	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Bromomethane	U		0.39	11	µg/Kg-dry	0.904	3/26/2014 16:40
Carbon disulfide	U		0.41	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Carbon tetrachloride	U		0.23	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Chlorobenzene	U		0.25	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Chloroethane	U		0.63	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Chloroform	U		0.29	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Chloromethane	U		0.34	11	µg/Kg-dry	0.904	3/26/2014 16:40
cis-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
cis-1,3-Dichloropropene	U		0.20	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Cyclohexane	U		0.36	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Dibromochloromethane	U		0.19	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Dichlorodifluoromethane	U		0.37	11	µg/Kg-dry	0.904	3/26/2014 16:40
Ethylbenzene	U		0.22	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Isopropylbenzene	U		0.22	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
m,p-Xylene	U		0.42	2.8	µg/Kg-dry	0.904	3/26/2014 16:40
Methyl acetate	U		0.90	11	µg/Kg-dry	0.904	3/26/2014 16:40
Methyl tert-butyl ether	U		0.28	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Methylcyclohexane	U		0.31	11	µg/Kg-dry	0.904	3/26/2014 16:40
Methylene chloride	**2.2**	J	**0.32**	**5.6**	**µg/Kg-dry**	0.904	3/26/2014 16:40
o-Xylene	U		0.22	2.8	µg/Kg-dry	0.904	3/26/2014 16:40
Styrene	U		0.20	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Tetrachloroethene	U		0.34	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Toluene	**0.52**	J	**0.26**	**5.6**	**µg/Kg-dry**	0.904	3/26/2014 16:40
trans-1,2-Dichloroethene	U		0.33	5.6	µg/Kg-dry	0.904	3/26/2014 16:40

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 8 Floor
Collection Date: 3/20/2014 01:35 PM

Work Order: 14031107
Lab ID: 14031107-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.21	11	µg/Kg-dry	0.904	3/26/2014 16:40
Trichloroethene	U		0.26	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Trichlorofluoromethane	U		1.3	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Vinyl chloride	U		0.34	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Xylenes, Total	U		0.65	5.6	µg/Kg-dry	0.904	3/26/2014 16:40
Surr: 1,2-Dichloroethane-d4	*114*			*70-120*	*%REC*	0.904	3/26/2014 16:40
Surr: 4-Bromofluorobenzene	*98.7*			*75-120*	*%REC*	0.904	3/26/2014 16:40
Surr: Dibromofluoromethane	*23.8*	S		*85-115*	*%REC*	0.904	3/26/2014 16:40
Surr: Toluene-d8	*97.6*			*85-120*	*%REC*	0.904	3/26/2014 16:40
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 7 Floor
Collection Date: 3/20/2014 01:50 PM

Work Order: 14031107
Lab ID: 14031107-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**7.8**		**0.0020**	**0.49**	**mg/Kg-dry**	1	3/30/2014 07:23
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	4/1/2014 00:15
ORO (C21-C35)	U		1.7	3.5	mg/Kg-dry	1	4/1/2014 00:15
Surr: 4-Terphenyl-d14	*126*			*25-137*	*%REC*	1	4/1/2014 00:15
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.1	µg/Kg-dry	1	4/1/2014 00:15
2-Methylnaphthalene	U		3.4	8.1	µg/Kg-dry	1	4/1/2014 00:15
Acenaphthene	U		1.2	8.1	µg/Kg-dry	1	4/1/2014 00:15
Acenaphthylene	U		1.5	8.1	µg/Kg-dry	1	4/1/2014 00:15
Anthracene	U		1.6	8.1	µg/Kg-dry	1	4/1/2014 00:15
Benzo(a)anthracene	U		1.6	8.1	µg/Kg-dry	1	4/1/2014 00:15
Benzo(a)pyrene	U		2.6	8.1	µg/Kg-dry	1	4/1/2014 00:15
Benzo(b)fluoranthene	U		2.4	8.1	µg/Kg-dry	1	4/1/2014 00:15
Benzo(g,h,i)perylene	U		3.2	8.1	µg/Kg-dry	1	4/1/2014 00:15
Benzo(k)fluoranthene	U		1.7	8.1	µg/Kg-dry	1	4/1/2014 00:15
Chrysene	U		1.9	8.1	µg/Kg-dry	1	4/1/2014 00:15
Dibenzo(a,h)anthracene	U		3.0	8.1	µg/Kg-dry	1	4/1/2014 00:15
Fluoranthene	U		2.8	8.1	µg/Kg-dry	1	4/1/2014 00:15
Fluorene	U		2.7	8.1	µg/Kg-dry	1	4/1/2014 00:15
Indeno(1,2,3-cd)pyrene	U		2.7	8.1	µg/Kg-dry	1	4/1/2014 00:15
Naphthalene	U		3.0	8.1	µg/Kg-dry	1	4/1/2014 00:15
Phenanthrene	U		1.6	8.1	µg/Kg-dry	1	4/1/2014 00:15
Pyrene	U		2.7	8.1	µg/Kg-dry	1	4/1/2014 00:15
Surr: 2-Fluorobiphenyl	*86.8*			*12-100*	*%REC*	1	4/1/2014 00:15
Surr: 4-Terphenyl-d14	*126*			*25-137*	*%REC*	1	4/1/2014 00:15
Surr: Nitrobenzene-d5	*84.9*			*37-107*	*%REC*	1	4/1/2014 00:15
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	3/26/2014 16:18
Surr: Toluene-d8	*94.4*			*70-130*	*%REC*	1	3/26/2014 16:18
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,1,2-Trichlorotrifluoroethane	U		0.29	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.864	3/26/2014 17:06

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 7 Floor
Collection Date: 3/20/2014 01:50 PM

Work Order: 14031107
Lab ID: 14031107-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,2-Dibromoethane	U		0.21	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,2-Dichlorobenzene	U		0.21	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,2-Dichloroethane	U		0.29	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,2-Dichloropropane	U		0.27	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
2-Butanone	**2.6**	J	**0.81**	**11**	**µg/Kg-dry**	0.864	3/26/2014 17:06
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Acetone	**20**		**0.99**	**11**	**µg/Kg-dry**	0.864	3/26/2014 17:06
Benzene	U		0.26	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Bromoform	U		0.16	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Bromomethane	U		0.37	11	µg/Kg-dry	0.864	3/26/2014 17:06
Carbon disulfide	U		0.39	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Carbon tetrachloride	U		0.21	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Chlorobenzene	U		0.23	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Chloroethane	U		0.59	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Chloroform	U		0.28	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Chloromethane	U		0.32	11	µg/Kg-dry	0.864	3/26/2014 17:06
cis-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Cyclohexane	U		0.34	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.864	3/26/2014 17:06
Ethylbenzene	U		0.20	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Isopropylbenzene	U		0.20	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
m,p-Xylene	U		0.40	2.6	µg/Kg-dry	0.864	3/26/2014 17:06
Methyl acetate	U		0.85	11	µg/Kg-dry	0.864	3/26/2014 17:06
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Methylcyclohexane	U		0.29	11	µg/Kg-dry	0.864	3/26/2014 17:06
Methylene chloride	**1.9**	J	**0.30**	**5.3**	**µg/Kg-dry**	0.864	3/26/2014 17:06
o-Xylene	U		0.21	2.6	µg/Kg-dry	0.864	3/26/2014 17:06
Styrene	U		0.19	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Toluene	**0.70**	J	**0.25**	**5.3**	**µg/Kg-dry**	0.864	3/26/2014 17:06
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.864	3/26/2014 17:06

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 7 Floor
Collection Date: 3/20/2014 01:50 PM

Work Order: 14031107
Lab ID: 14031107-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.864	3/26/2014 17:06
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Vinyl chloride	U		0.32	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.864	3/26/2014 17:06
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.864	3/26/2014 17:06
Surr: 4-Bromofluorobenzene	*98.0*			*75-120*	*%REC*	0.864	3/26/2014 17:06
Surr: Dibromofluoromethane	*19.2*	S		*85-115*	*%REC*	0.864	3/26/2014 17:06
Surr: Toluene-d8	*95.4*			*85-120*	*%REC*	0.864	3/26/2014 17:06
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**18**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 6-7 North Wall
Collection Date: 3/20/2014 02:05 PM

Work Order: 14031107
Lab ID: 14031107-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**9.5**		**0.0016**	**0.41**	**mg/Kg-dry**	1	3/30/2014 07:29
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**11**		**1.5**	**3.5**	**mg/Kg-dry**	1	4/1/2014 00:40
ORO (C21-C35)	**27**		**1.7**	**3.5**	**mg/Kg-dry**	1	4/1/2014 00:40
Surr: 4-Terphenyl-d14	*127*			*25-137*	*%REC*	1	4/1/2014 00:40
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	7.9	µg/Kg-dry	1	4/1/2014 00:40
2-Methylnaphthalene	U		3.3	7.9	µg/Kg-dry	1	4/1/2014 00:40
Acenaphthene	U		1.2	7.9	µg/Kg-dry	1	4/1/2014 00:40
Acenaphthylene	U		1.4	7.9	µg/Kg-dry	1	4/1/2014 00:40
Anthracene	**21**		**1.6**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Benzo(a)anthracene	**97**		**1.6**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Benzo(a)pyrene	**130**		**2.6**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Benzo(b)fluoranthene	**160**		**2.3**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Benzo(g,h,i)perylene	**92**		**3.1**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Benzo(k)fluoranthene	**76**		**1.7**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Chrysene	**110**		**1.9**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Dibenzo(a,h)anthracene	**21**		**3.0**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Fluoranthene	**200**		**2.8**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Fluorene	U		2.7	7.9	µg/Kg-dry	1	4/1/2014 00:40
Indeno(1,2,3-cd)pyrene	**120**		**2.6**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Naphthalene	U		2.9	7.9	µg/Kg-dry	1	4/1/2014 00:40
Phenanthrene	**100**		**1.6**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Pyrene	**230**		**2.7**	**7.9**	**µg/Kg-dry**	1	4/1/2014 00:40
Surr: 2-Fluorobiphenyl	*80.1*			*12-100*	*%REC*	1	4/1/2014 00:40
Surr: 4-Terphenyl-d14	*127*			*25-137*	*%REC*	1	4/1/2014 00:40
Surr: Nitrobenzene-d5	*80.0*			*37-107*	*%REC*	1	4/1/2014 00:40
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	3/26/2014 16:44
Surr: Toluene-d8	*97.2*			*70-130*	*%REC*	1	3/26/2014 16:44
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.24	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,1,2,2-Tetrachloroethane	U		0.16	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,1,2-Trichloroethane	U		0.21	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,1,2-Trichlorotrifluoroethane	U		0.31	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,1-Dichloroethane	U		0.28	5.5	µg/Kg-dry	0.896	3/28/2014 11:25

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 6-7 North Wall
Collection Date: 3/20/2014 02:05 PM

Work Order: 14031107
Lab ID: 14031107-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.25	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,2,4-Trichlorobenzene	U		0.23	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,2-Dibromo-3-chloropropane	U		0.22	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,2-Dibromoethane	U		0.22	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,2-Dichlorobenzene	U		0.22	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,2-Dichloroethane	U		0.30	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,2-Dichloropropane	U		0.29	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,3-Dichlorobenzene	U		0.21	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
1,4-Dichlorobenzene	U		0.23	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
2-Butanone	**3.7**	J	**0.85**	**11**	**µg/Kg-dry**	0.896	3/28/2014 11:25
2-Hexanone	U		0.33	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
4-Methyl-2-pentanone	U		0.22	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Acetone	**27**		**1.0**	**11**	**µg/Kg-dry**	0.896	3/28/2014 11:25
Benzene	U		0.27	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Bromodichloromethane	U		0.23	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Bromoform	U		0.17	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Bromomethane	U		0.39	11	µg/Kg-dry	0.896	3/28/2014 11:25
Carbon disulfide	U		0.41	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Carbon tetrachloride	U		0.22	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Chlorobenzene	U		0.24	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Chloroethane	U		0.62	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Chloroform	U		0.29	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Chloromethane	U		0.34	11	µg/Kg-dry	0.896	3/28/2014 11:25
cis-1,2-Dichloroethene	U		0.33	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
cis-1,3-Dichloropropene	U		0.20	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Cyclohexane	U		0.35	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Dibromochloromethane	U		0.19	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Dichlorodifluoromethane	U		0.37	11	µg/Kg-dry	0.896	3/28/2014 11:25
Ethylbenzene	**0.35**	J	**0.21**	**5.5**	**µg/Kg-dry**	0.896	3/28/2014 11:25
Isopropylbenzene	U		0.21	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
m,p-Xylene	**1.5**	J	**0.41**	**2.8**	**µg/Kg-dry**	0.896	3/28/2014 11:25
Methyl acetate	U		0.89	11	µg/Kg-dry	0.896	3/28/2014 11:25
Methyl tert-butyl ether	U		0.28	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Methylcyclohexane	U		0.31	11	µg/Kg-dry	0.896	3/28/2014 11:25
Methylene chloride	**3.3**	J	**0.31**	**5.5**	**µg/Kg-dry**	0.896	3/28/2014 11:25
o-Xylene	**0.69**	J	**0.22**	**2.8**	**µg/Kg-dry**	0.896	3/28/2014 11:25
Styrene	U		0.20	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Tetrachloroethene	U		0.33	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Toluene	**1.2**	J	**0.26**	**5.5**	**µg/Kg-dry**	0.896	3/28/2014 11:25
trans-1,2-Dichloroethene	U		0.32	5.5	µg/Kg-dry	0.896	3/28/2014 11:25

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 6-7 North Wall
Collection Date: 3/20/2014 02:05 PM

Work Order: 14031107
Lab ID: 14031107-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.896	3/28/2014 11:25
Trichloroethene	U		0.26	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Trichlorofluoromethane	U		1.3	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Vinyl chloride	U		0.34	5.5	µg/Kg-dry	0.896	3/28/2014 11:25
Xylenes, Total	**2.1**	J	**0.63**	**5.5**	**µg/Kg-dry**	0.896	3/28/2014 11:25
Surr: 1,2-Dichloroethane-d4	*117*			*70-120*	*%REC*	0.896	3/28/2014 11:25
Surr: 4-Bromofluorobenzene	*99.8*			*75-120*	*%REC*	0.896	3/28/2014 11:25
Surr: Dibromofluoromethane	*15.6*	S		*85-115*	*%REC*	0.896	3/28/2014 11:25
Surr: Toluene-d8	*97.3*			*85-120*	*%REC*	0.896	3/28/2014 11:25
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 4 Floor
Collection Date: 3/21/2014 08:18 AM

Work Order: 14031107
Lab ID: 14031107-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**95**		**0.0021**	**0.53**	**mg/Kg-dry**	1	3/30/2014 07:35
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**10**		**1.6**	**3.7**	**mg/Kg-dry**	1	4/1/2014 03:33
ORO (C21-C35)	U		1.8	3.7	mg/Kg-dry	1	4/1/2014 03:33
Surr: 4-Terphenyl-d14	*119*			*25-137*	*%REC*	1	4/1/2014 03:33
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		2.0	8.4	µg/Kg-dry	1	4/1/2014 03:33
2-Methylnaphthalene	**28**		**3.5**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:33
Acenaphthene	U		1.3	8.4	µg/Kg-dry	1	4/1/2014 03:33
Acenaphthylene	U		1.5	8.4	µg/Kg-dry	1	4/1/2014 03:33
Anthracene	U		1.7	8.4	µg/Kg-dry	1	4/1/2014 03:33
Benzo(a)anthracene	U		1.7	8.4	µg/Kg-dry	1	4/1/2014 03:33
Benzo(a)pyrene	U		2.7	8.4	µg/Kg-dry	1	4/1/2014 03:33
Benzo(b)fluoranthene	U		2.5	8.4	µg/Kg-dry	1	4/1/2014 03:33
Benzo(g,h,i)perylene	U		3.3	8.4	µg/Kg-dry	1	4/1/2014 03:33
Benzo(k)fluoranthene	U		1.8	8.4	µg/Kg-dry	1	4/1/2014 03:33
Chrysene	U		2.0	8.4	µg/Kg-dry	1	4/1/2014 03:33
Dibenzo(a,h)anthracene	U		3.1	8.4	µg/Kg-dry	1	4/1/2014 03:33
Fluoranthene	U		2.9	8.4	µg/Kg-dry	1	4/1/2014 03:33
Fluorene	U		2.8	8.4	µg/Kg-dry	1	4/1/2014 03:33
Indeno(1,2,3-cd)pyrene	U		2.8	8.4	µg/Kg-dry	1	4/1/2014 03:33
Naphthalene	**51**		**3.1**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:33
Phenanthrene	U		1.7	8.4	µg/Kg-dry	1	4/1/2014 03:33
Pyrene	U		2.8	8.4	µg/Kg-dry	1	4/1/2014 03:33
Surr: 2-Fluorobiphenyl	*80.4*			*12-100*	*%REC*	1	4/1/2014 03:33
Surr: 4-Terphenyl-d14	*119*			*25-137*	*%REC*	1	4/1/2014 03:33
Surr: Nitrobenzene-d5	*81.4*			*37-107*	*%REC*	1	4/1/2014 03:33
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	**21,000**		**2,000**	**3,900**	**µg/Kg-dry**	1	3/26/2014 17:11
Surr: Toluene-d8	*96.8*			*70-130*	*%REC*	1	3/26/2014 17:11
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**		Prep: SW5035 / 3/26/14		Analyst: **BG**
1,1,1-Trichloroethane	U		18	47	µg/Kg-dry	1	3/26/2014 17:11
1,1,2,2-Tetrachloroethane	U		21	47	µg/Kg-dry	1	3/26/2014 17:11
1,1,2-Trichloroethane	U		17	47	µg/Kg-dry	1	3/26/2014 17:11
1,1,2-Trichlorotrifluoroethane	U		17	47	µg/Kg-dry	1	3/26/2014 17:11
1,1-Dichloroethane	**1,400**		**17**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 4 Floor
Collection Date: 3/21/2014 08:18 AM

Work Order: 14031107
Lab ID: 14031107-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		20	47	µg/Kg-dry	1	3/26/2014 17:11
1,2,4-Trichlorobenzene	U		24	47	µg/Kg-dry	1	3/26/2014 17:11
1,2-Dibromo-3-chloropropane	U		23	47	µg/Kg-dry	1	3/26/2014 17:11
1,2-Dibromoethane	U		18	47	µg/Kg-dry	1	3/26/2014 17:11
1,2-Dichlorobenzene	U		19	47	µg/Kg-dry	1	3/26/2014 17:11
1,2-Dichloroethane	U		22	47	µg/Kg-dry	1	3/26/2014 17:11
1,2-Dichloropropane	U		16	47	µg/Kg-dry	1	3/26/2014 17:11
1,3-Dichlorobenzene	U		19	47	µg/Kg-dry	1	3/26/2014 17:11
1,4-Dichlorobenzene	U		18	47	µg/Kg-dry	1	3/26/2014 17:11
2-Butanone	**150**	J	**120**	**310**	**µg/Kg-dry**	1	3/26/2014 17:11
2-Hexanone	U		12	47	µg/Kg-dry	1	3/26/2014 17:11
4-Methyl-2-pentanone	U		16	47	µg/Kg-dry	1	3/26/2014 17:11
Acetone	U		99	160	µg/Kg-dry	1	3/26/2014 17:11
Benzene	**350**		**19**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11
Bromodichloromethane	U		11	47	µg/Kg-dry	1	3/26/2014 17:11
Bromoform	U		9.2	47	µg/Kg-dry	1	3/26/2014 17:11
Bromomethane	U		18	120	µg/Kg-dry	1	3/26/2014 17:11
Carbon disulfide	U		23	47	µg/Kg-dry	1	3/26/2014 17:11
Carbon tetrachloride	U		13	47	µg/Kg-dry	1	3/26/2014 17:11
Chlorobenzene	U		19	47	µg/Kg-dry	1	3/26/2014 17:11
Chloroethane	U		100	160	µg/Kg-dry	1	3/26/2014 17:11
Chloroform	U		19	47	µg/Kg-dry	1	3/26/2014 17:11
Chloromethane	U		26	160	µg/Kg-dry	1	3/26/2014 17:11
cis-1,2-Dichloroethene	U		19	47	µg/Kg-dry	1	3/26/2014 17:11
cis-1,3-Dichloropropene	U		16	47	µg/Kg-dry	1	3/26/2014 17:11
Cyclohexane	**63**		**21**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11
Dibromochloromethane	U		8.7	47	µg/Kg-dry	1	3/26/2014 17:11
Dichlorodifluoromethane	U		21	47	µg/Kg-dry	1	3/26/2014 17:11
Ethylbenzene	**570**		**17**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11
Isopropylbenzene	**33**	J	**20**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11
m,p-Xylene	**2,300**		**36**	**94**	**µg/Kg-dry**	1	3/26/2014 17:11
Methyl acetate	U		63	310	µg/Kg-dry	1	3/26/2014 17:11
Methyl tert-butyl ether	U		20	47	µg/Kg-dry	1	3/26/2014 17:11
Methylcyclohexane	U		22	47	µg/Kg-dry	1	3/26/2014 17:11
Methylene chloride	U		18	47	µg/Kg-dry	1	3/26/2014 17:11
o-Xylene	**1,000**		**20**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11
Styrene	U		17	47	µg/Kg-dry	1	3/26/2014 17:11
Tetrachloroethene	U		21	47	µg/Kg-dry	1	3/26/2014 17:11
Toluene	**2,300**		**18**	**47**	**µg/Kg-dry**	1	3/26/2014 17:11
trans-1,2-Dichloroethene	U		14	47	µg/Kg-dry	1	3/26/2014 17:11

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 4 Floor
Collection Date: 3/21/2014 08:18 AM

Work Order: 14031107
Lab ID: 14031107-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		16	47	µg/Kg-dry	1	3/26/2014 17:11
Trichloroethene	U		22	47	µg/Kg-dry	1	3/26/2014 17:11
Trichlorofluoromethane	U		13	47	µg/Kg-dry	1	3/26/2014 17:11
Vinyl chloride	U		21	47	µg/Kg-dry	1	3/26/2014 17:11
Xylenes, Total	**3,400**		**55**	**140**	**µg/Kg-dry**	1	3/26/2014 17:11
Surr: 1,2-Dichloroethane-d4	*98.0*			*70-130*	*%REC*	1	3/26/2014 17:11
Surr: 4-Bromofluorobenzene	*98.8*			*70-130*	*%REC*	1	3/26/2014 17:11
Surr: Dibromofluoromethane	*92.0*			*70-130*	*%REC*	1	3/26/2014 17:11
Surr: Toluene-d8	*99.3*			*70-130*	*%REC*	1	3/26/2014 17:11
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 3 Floor
Collection Date: 3/21/2014 08:44 AM

Work Order: 14031107
Lab ID: 14031107-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**12**		**0.0019**	**0.48**	**mg/Kg-dry**	1	3/30/2014 07:41
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	4/1/2014 01:05
ORO (C21-C35)	U		1.7	3.6	mg/Kg-dry	1	4/1/2014 01:05
Surr: 4-Terphenyl-d14	*132*			*25-137*	*%REC*	1	4/1/2014 01:05
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.2	µg/Kg-dry	1	4/1/2014 01:05
2-Methylnaphthalene	U		3.4	8.2	µg/Kg-dry	1	4/1/2014 01:05
Acenaphthene	U		1.2	8.2	µg/Kg-dry	1	4/1/2014 01:05
Acenaphthylene	U		1.5	8.2	µg/Kg-dry	1	4/1/2014 01:05
Anthracene	U		1.6	8.2	µg/Kg-dry	1	4/1/2014 01:05
Benzo(a)anthracene	U		1.6	8.2	µg/Kg-dry	1	4/1/2014 01:05
Benzo(a)pyrene	U		2.7	8.2	µg/Kg-dry	1	4/1/2014 01:05
Benzo(b)fluoranthene	U		2.4	8.2	µg/Kg-dry	1	4/1/2014 01:05
Benzo(g,h,i)perylene	U		3.2	8.2	µg/Kg-dry	1	4/1/2014 01:05
Benzo(k)fluoranthene	U		1.7	8.2	µg/Kg-dry	1	4/1/2014 01:05
Chrysene	U		2.0	8.2	µg/Kg-dry	1	4/1/2014 01:05
Dibenzo(a,h)anthracene	U		3.1	8.2	µg/Kg-dry	1	4/1/2014 01:05
Fluoranthene	U		2.9	8.2	µg/Kg-dry	1	4/1/2014 01:05
Fluorene	U		2.8	8.2	µg/Kg-dry	1	4/1/2014 01:05
Indeno(1,2,3-cd)pyrene	U		2.7	8.2	µg/Kg-dry	1	4/1/2014 01:05
Naphthalene	U		3.0	8.2	µg/Kg-dry	1	4/1/2014 01:05
Phenanthrene	U		1.6	8.2	µg/Kg-dry	1	4/1/2014 01:05
Pyrene	U		2.8	8.2	µg/Kg-dry	1	4/1/2014 01:05
Surr: 2-Fluorobiphenyl	*87.3*			*12-100*	*%REC*	1	4/1/2014 01:05
Surr: 4-Terphenyl-d14	*132*			*25-137*	*%REC*	1	4/1/2014 01:05
Surr: Nitrobenzene-d5	*87.5*			*37-107*	*%REC*	1	4/1/2014 01:05
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	**9,800**		**1,600**	**3,100**	**µg/Kg-dry**	1	3/26/2014 17:37
Surr: Toluene-d8	*95.7*			*70-130*	*%REC*	1	3/26/2014 17:37
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**		Prep: SW5035 / 3/26/14		Analyst: **BG**
1,1,1-Trichloroethane	U		14	38	µg/Kg-dry	1	3/26/2014 17:37
1,1,2,2-Tetrachloroethane	U		17	38	µg/Kg-dry	1	3/26/2014 17:37
1,1,2-Trichloroethane	U		13	38	µg/Kg-dry	1	3/26/2014 17:37
1,1,2-Trichlorotrifluoroethane	U		14	38	µg/Kg-dry	1	3/26/2014 17:37
1,1-Dichloroethane	**2,300**		**14**	**38**	**µg/Kg-dry**	1	3/26/2014 17:37

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 3 Floor
Collection Date: 3/21/2014 08:44 AM

Work Order: 14031107
Lab ID: 14031107-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		16	38	µg/Kg-dry	1	3/26/2014 17:37
1,2,4-Trichlorobenzene	U		19	38	µg/Kg-dry	1	3/26/2014 17:37
1,2-Dibromo-3-chloropropane	U		18	38	µg/Kg-dry	1	3/26/2014 17:37
1,2-Dibromoethane	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
1,2-Dichlorobenzene	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
1,2-Dichloroethane	**47**		**18**	**38**	**µg/Kg-dry**	1	3/26/2014 17:37
1,2-Dichloropropane	U		12	38	µg/Kg-dry	1	3/26/2014 17:37
1,3-Dichlorobenzene	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
1,4-Dichlorobenzene	U		14	38	µg/Kg-dry	1	3/26/2014 17:37
2-Butanone	**96**	J	**93**	**250**	**µg/Kg-dry**	1	3/26/2014 17:37
2-Hexanone	U		9.2	38	µg/Kg-dry	1	3/26/2014 17:37
4-Methyl-2-pentanone	U		13	38	µg/Kg-dry	1	3/26/2014 17:37
Acetone	U		79	130	µg/Kg-dry	1	3/26/2014 17:37
Benzene	**490**		**15**	**38**	**µg/Kg-dry**	1	3/26/2014 17:37
Bromodichloromethane	U		8.4	38	µg/Kg-dry	1	3/26/2014 17:37
Bromoform	U		7.4	38	µg/Kg-dry	1	3/26/2014 17:37
Bromomethane	U		14	94	µg/Kg-dry	1	3/26/2014 17:37
Carbon disulfide	U		19	38	µg/Kg-dry	1	3/26/2014 17:37
Carbon tetrachloride	U		11	38	µg/Kg-dry	1	3/26/2014 17:37
Chlorobenzene	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
Chloroethane	U		80	130	µg/Kg-dry	1	3/26/2014 17:37
Chloroform	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
Chloromethane	U		21	130	µg/Kg-dry	1	3/26/2014 17:37
cis-1,2-Dichloroethene	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	3/26/2014 17:37
Cyclohexane	U		17	38	µg/Kg-dry	1	3/26/2014 17:37
Dibromochloromethane	U		6.9	38	µg/Kg-dry	1	3/26/2014 17:37
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	3/26/2014 17:37
Ethylbenzene	**150**		**14**	**38**	**µg/Kg-dry**	1	3/26/2014 17:37
Isopropylbenzene	U		16	38	µg/Kg-dry	1	3/26/2014 17:37
m,p-Xylene	**540**		**28**	**75**	**µg/Kg-dry**	1	3/26/2014 17:37
Methyl acetate	U		50	250	µg/Kg-dry	1	3/26/2014 17:37
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	3/26/2014 17:37
Methylcyclohexane	U		17	38	µg/Kg-dry	1	3/26/2014 17:37
Methylene chloride	U		15	38	µg/Kg-dry	1	3/26/2014 17:37
o-Xylene	**230**		**16**	**38**	**µg/Kg-dry**	1	3/26/2014 17:37
Styrene	U		14	38	µg/Kg-dry	1	3/26/2014 17:37
Tetrachloroethene	U		17	38	µg/Kg-dry	1	3/26/2014 17:37
Toluene	**1,300**		**14**	**38**	**µg/Kg-dry**	1	3/26/2014 17:37
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	3/26/2014 17:37

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 3 Floor
Collection Date: 3/21/2014 08:44 AM

Work Order: 14031107
Lab ID: 14031107-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	3/26/2014 17:37
Trichloroethene	U		18	38	µg/Kg-dry	1	3/26/2014 17:37
Trichlorofluoromethane	U		10	38	µg/Kg-dry	1	3/26/2014 17:37
Vinyl chloride	U		17	38	µg/Kg-dry	1	3/26/2014 17:37
Xylenes, Total	**760**		**44**	**110**	**µg/Kg-dry**	1	3/26/2014 17:37
Surr: 1,2-Dichloroethane-d4	*98.5*			*70-130*	*%REC*	1	3/26/2014 17:37
Surr: 4-Bromofluorobenzene	*98.0*			*70-130*	*%REC*	1	3/26/2014 17:37
Surr: Dibromofluoromethane	*93.6*			*70-130*	*%REC*	1	3/26/2014 17:37
Surr: Toluene-d8	*98.0*			*70-130*	*%REC*	1	3/26/2014 17:37
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**20**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 2 Floor
Collection Date: 3/21/2014 08:53 AM

Work Order: 14031107
Lab ID: 14031107-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/14		Analyst: **ML**
Lead	**10**		**0.0019**	**0.47**	**mg/Kg-dry**	1	3/30/2014 07:47
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	4/1/2014 01:30
ORO (C21-C35)	U		1.7	3.5	mg/Kg-dry	1	4/1/2014 01:30
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	4/1/2014 01:30
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.1	µg/Kg-dry	1	4/1/2014 01:30
2-Methylnaphthalene	U		3.4	8.1	µg/Kg-dry	1	4/1/2014 01:30
Acenaphthene	U		1.2	8.1	µg/Kg-dry	1	4/1/2014 01:30
Acenaphthylene	U		1.5	8.1	µg/Kg-dry	1	4/1/2014 01:30
Anthracene	U		1.6	8.1	µg/Kg-dry	1	4/1/2014 01:30
Benzo(a)anthracene	U		1.6	8.1	µg/Kg-dry	1	4/1/2014 01:30
Benzo(a)pyrene	U		2.6	8.1	µg/Kg-dry	1	4/1/2014 01:30
Benzo(b)fluoranthene	U		2.4	8.1	µg/Kg-dry	1	4/1/2014 01:30
Benzo(g,h,i)perylene	U		3.2	8.1	µg/Kg-dry	1	4/1/2014 01:30
Benzo(k)fluoranthene	U		1.7	8.1	µg/Kg-dry	1	4/1/2014 01:30
Chrysene	U		1.9	8.1	µg/Kg-dry	1	4/1/2014 01:30
Dibenzo(a,h)anthracene	U		3.0	8.1	µg/Kg-dry	1	4/1/2014 01:30
Fluoranthene	U		2.8	8.1	µg/Kg-dry	1	4/1/2014 01:30
Fluorene	U		2.7	8.1	µg/Kg-dry	1	4/1/2014 01:30
Indeno(1,2,3-cd)pyrene	U		2.7	8.1	µg/Kg-dry	1	4/1/2014 01:30
Naphthalene	U		3.0	8.1	µg/Kg-dry	1	4/1/2014 01:30
Phenanthrene	U		1.6	8.1	µg/Kg-dry	1	4/1/2014 01:30
Pyrene	U		2.7	8.1	µg/Kg-dry	1	4/1/2014 01:30
Surr: 2-Fluorobiphenyl	*80.2*			*12-100*	*%REC*	1	4/1/2014 01:30
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	4/1/2014 01:30
Surr: Nitrobenzene-d5	*81.5*			*37-107*	*%REC*	1	4/1/2014 01:30
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	**2,100**	J	**1,500**	**3,100**	**µg/Kg-dry**	1	3/26/2014 18:04
Surr: Toluene-d8	*96.2*			*70-130*	*%REC*	1	3/26/2014 18:04
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,1,2,2-Tetrachloroethane	U		0.15	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,1,2-Trichloroethane	U		0.20	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,1,2-Trichlorotrifluoroethane	U		0.29	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,1-Dichloroethane	**300**		**0.32**	**6.2**	**µg/Kg-dry**	1	3/26/2014 18:04

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 2 Floor
Collection Date: 3/21/2014 08:53 AM

Work Order: 14031107
Lab ID: 14031107-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.23	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,2,4-Trichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,2-Dibromo-3-chloropropane	U		0.20	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,2-Dibromoethane	U		0.21	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,2-Dichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,2-Dichloroethane	**8.5**		**0.29**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
1,2-Dichloropropane	U		0.27	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,3-Dichlorobenzene	U		0.19	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
1,4-Dichlorobenzene	U		0.22	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
2-Butanone	**34**		**0.79**	**10**	**µg/Kg-dry**	0.831	3/28/2014 15:41
2-Hexanone	**3.7**	J	**0.31**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
4-Methyl-2-pentanone	**1.3**	J	**0.20**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Acetone	**81**		**0.97**	**10**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Benzene	**77**		**0.26**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Bromodichloromethane	U		0.21	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Bromoform	U		0.16	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Bromomethane	U		0.36	10	µg/Kg-dry	0.831	3/28/2014 15:41
Carbon disulfide	**0.82**	J	**0.38**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Carbon tetrachloride	U		0.21	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Chlorobenzene	U		0.23	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Chloroethane	**6.7**		**0.58**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Chloroform	U		0.27	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Chloromethane	U		0.32	10	µg/Kg-dry	0.831	3/28/2014 15:41
cis-1,2-Dichloroethene	U		0.30	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
cis-1,3-Dichloropropene	U		0.19	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Cyclohexane	**7.5**		**0.33**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Dibromochloromethane	U		0.17	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Dichlorodifluoromethane	U		0.34	10	µg/Kg-dry	0.831	3/28/2014 15:41
Ethylbenzene	**20**		**0.20**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Isopropylbenzene	**0.48**	J	**0.20**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
m,p-Xylene	**72**		**0.39**	**2.6**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Methyl acetate	U		0.83	10	µg/Kg-dry	0.831	3/28/2014 15:41
Methyl tert-butyl ether	U		0.26	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Methylcyclohexane	U		0.29	10	µg/Kg-dry	0.831	3/28/2014 15:41
Methylene chloride	**3.3**	J	**0.29**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
o-Xylene	**33**		**0.20**	**2.6**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Styrene	U		0.19	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Tetrachloroethene	U		0.31	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Toluene	**150**		**0.29**	**6.2**	**µg/Kg-dry**	1	3/26/2014 18:04
trans-1,2-Dichloroethene	U		0.30	5.1	µg/Kg-dry	0.831	3/28/2014 15:41

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 2 Floor
Collection Date: 3/21/2014 08:53 AM

Work Order: 14031107
Lab ID: 14031107-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.831	3/28/2014 15:41
Trichloroethene	U		0.24	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Trichlorofluoromethane	U		1.2	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Vinyl chloride	U		0.31	5.1	µg/Kg-dry	0.831	3/28/2014 15:41
Xylenes, Total	**100**		**0.59**	**5.1**	**µg/Kg-dry**	0.831	3/28/2014 15:41
Surr: 1,2-Dichloroethane-d4	*96.8*			*70-120*	*%REC*	1	3/26/2014 18:04
Surr: 1,2-Dichloroethane-d4	*115*			*70-120*	*%REC*	0.831	3/28/2014 15:41
Surr: 4-Bromofluorobenzene	*98.4*			*75-120*	*%REC*	1	3/26/2014 18:04
Surr: 4-Bromofluorobenzene	*106*			*75-120*	*%REC*	0.831	3/28/2014 15:41
Surr: Dibromofluoromethane	*91.5*			*85-115*	*%REC*	1	3/26/2014 18:04
Surr: Dibromofluoromethane	*17.3*	S		*85-115*	*%REC*	0.831	3/28/2014 15:41
Surr: Toluene-d8	*98.4*			*85-120*	*%REC*	1	3/26/2014 18:04
Surr: Toluene-d8	*98.1*			*85-120*	*%REC*	0.831	3/28/2014 15:41
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 1 Floor
Collection Date: 3/21/2014 09:05 AM

Work Order: 14031107
Lab ID: 14031107-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**96**		**0.0019**	**0.49**	**mg/Kg-dry**	1	3/31/2014 20:12
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**35**		**1.6**	**3.7**	**mg/Kg-dry**	1	4/1/2014 03:58
ORO (C21-C35)	**37**		**1.7**	**3.7**	**mg/Kg-dry**	1	4/1/2014 03:58
Surr: 4-Terphenyl-d14	*116*			*25-137*	*%REC*	1	4/1/2014 03:58
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		2.0	8.4	µg/Kg-dry	1	4/1/2014 03:58
2-Methylnaphthalene	**51**		**3.5**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Acenaphthene	U		1.2	8.4	µg/Kg-dry	1	4/1/2014 03:58
Acenaphthylene	**47**		**1.5**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Anthracene	**82**		**1.6**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Benzo(a)anthracene	**320**		**1.6**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Benzo(a)pyrene	**710**		**2.7**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Benzo(b)fluoranthene	**790**		**2.4**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Benzo(g,h,i)perylene	**1,300**		**3.3**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Benzo(k)fluoranthene	**240**		**1.8**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Chrysene	**390**		**2.0**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Dibenzo(a,h)anthracene	**210**		**3.1**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Fluoranthene	**250**		**2.9**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Fluorene	U		2.8	8.4	µg/Kg-dry	1	4/1/2014 03:58
Indeno(1,2,3-cd)pyrene	**1,000**		**2.8**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Naphthalene	**53**		**3.1**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Phenanthrene	**95**		**1.7**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Pyrene	**500**		**2.8**	**8.4**	**µg/Kg-dry**	1	4/1/2014 03:58
Surr: 2-Fluorobiphenyl	*80.5*			*12-100*	*%REC*	1	4/1/2014 03:58
Surr: 4-Terphenyl-d14	*116*			*25-137*	*%REC*	1	4/1/2014 03:58
Surr: Nitrobenzene-d5	*71.5*			*37-107*	*%REC*	1	4/1/2014 03:58
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	**12,000**		**1,600**	**3,200**	**µg/Kg-dry**	1	3/26/2014 18:30
Surr: Toluene-d8	*97.1*			*70-130*	*%REC*	1	3/26/2014 18:30
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/26/14		Analyst: **BG**
1,1,1-Trichloroethane	U		0.28	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,1,2,2-Tetrachloroethane	U		0.18	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,1,2-Trichloroethane	U		0.24	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,1,2-Trichlorotrifluoroethane	U		0.35	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,1-Dichloroethane	**2,900**		**0.32**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 1 Floor
Collection Date: 3/21/2014 09:05 AM

Work Order: 14031107
Lab ID: 14031107-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.29	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,2,4-Trichlorobenzene	U		0.26	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,2-Dibromo-3-chloropropane	U		0.25	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,2-Dibromoethane	U		0.26	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,2-Dichlorobenzene	U		0.26	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,2-Dichloroethane	**63**		**0.35**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30
1,2-Dichloropropane	U		0.33	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,3-Dichlorobenzene	U		0.24	6.3	µg/Kg-dry	1	3/26/2014 18:30
1,4-Dichlorobenzene	U		0.27	6.3	µg/Kg-dry	1	3/26/2014 18:30
2-Butanone	**230**		**0.97**	**13**	**µg/Kg-dry**	1	3/26/2014 18:30
2-Hexanone	U		0.38	6.3	µg/Kg-dry	1	3/26/2014 18:30
4-Methyl-2-pentanone	U		0.25	6.3	µg/Kg-dry	1	3/26/2014 18:30
Acetone	**110**		**1.2**	**13**	**µg/Kg-dry**	1	3/26/2014 18:30
Benzene	**570**		**0.31**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30
Bromodichloromethane	U		0.26	6.3	µg/Kg-dry	1	3/26/2014 18:30
Bromoform	U		0.19	6.3	µg/Kg-dry	1	3/26/2014 18:30
Bromomethane	U		0.44	13	µg/Kg-dry	1	3/26/2014 18:30
Carbon disulfide	**44**		**0.46**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30
Carbon tetrachloride	U		0.26	6.3	µg/Kg-dry	1	3/26/2014 18:30
Chlorobenzene	U		0.28	6.3	µg/Kg-dry	1	3/26/2014 18:30
Chloroethane	U		0.71	6.3	µg/Kg-dry	1	3/26/2014 18:30
Chloroform	U		0.33	6.3	µg/Kg-dry	1	3/26/2014 18:30
Chloromethane	U		0.39	13	µg/Kg-dry	1	3/26/2014 18:30
cis-1,2-Dichloroethene	U		0.37	6.3	µg/Kg-dry	1	3/26/2014 18:30
cis-1,3-Dichloropropene	U		0.23	6.3	µg/Kg-dry	1	3/26/2014 18:30
Cyclohexane	U		0.40	6.3	µg/Kg-dry	1	3/26/2014 18:30
Dibromochloromethane	U		0.21	6.3	µg/Kg-dry	1	3/26/2014 18:30
Dichlorodifluoromethane	U		0.42	13	µg/Kg-dry	1	3/26/2014 18:30
Ethylbenzene	**180**		**0.24**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30
Isopropylbenzene	U		0.24	6.3	µg/Kg-dry	1	3/26/2014 18:30
m,p-Xylene	**620**		**0.48**	**3.2**	**µg/Kg-dry**	1	3/26/2014 18:30
Methyl acetate	**27**		**1.0**	**13**	**µg/Kg-dry**	1	3/26/2014 18:30
Methyl tert-butyl ether	U		0.32	6.3	µg/Kg-dry	1	3/26/2014 18:30
Methylcyclohexane	U		0.35	13	µg/Kg-dry	1	3/26/2014 18:30
Methylene chloride	U		0.36	6.3	µg/Kg-dry	1	3/26/2014 18:30
o-Xylene	**270**		**0.25**	**3.2**	**µg/Kg-dry**	1	3/26/2014 18:30
Styrene	U		0.23	6.3	µg/Kg-dry	1	3/26/2014 18:30
Tetrachloroethene	U		0.38	6.3	µg/Kg-dry	1	3/26/2014 18:30
Toluene	**1,800**		**0.30**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30
trans-1,2-Dichloroethene	U		0.37	6.3	µg/Kg-dry	1	3/26/2014 18:30

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Tank 1 Floor
Collection Date: 3/21/2014 09:05 AM

Work Order: 14031107
Lab ID: 14031107-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.23	13	µg/Kg-dry	1	3/26/2014 18:30
Trichloroethene	U		0.29	6.3	µg/Kg-dry	1	3/26/2014 18:30
Trichlorofluoromethane	U		1.5	6.3	µg/Kg-dry	1	3/26/2014 18:30
Vinyl chloride	U		0.39	6.3	µg/Kg-dry	1	3/26/2014 18:30
Xylenes, Total	**900**		**0.73**	**6.3**	**µg/Kg-dry**	1	3/26/2014 18:30
Surr: 1,2-Dichloroethane-d4	*99.0*			*70-120*	*%REC*	1	3/26/2014 18:30
Surr: 4-Bromofluorobenzene	*98.6*			*75-120*	*%REC*	1	3/26/2014 18:30
Surr: Dibromofluoromethane	*92.8*			*85-115*	*%REC*	1	3/26/2014 18:30
Surr: Toluene-d8	*99.0*			*85-120*	*%REC*	1	3/26/2014 18:30
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: West Tank Pit Wall
Collection Date: 3/21/2014 09:20 AM

Work Order: 14031107
Lab ID: 14031107-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**23**		**0.0018**	**0.44**	**mg/Kg-dry**	1	3/31/2014 20:18
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**9.6**		**1.5**	**3.6**	**mg/Kg-dry**	1	4/1/2014 04:23
ORO (C21-C35)	**31**		**1.7**	**3.6**	**mg/Kg-dry**	1	4/1/2014 04:23
Surr: 4-Terphenyl-d14	*117*			*25-137*	*%REC*	1	4/1/2014 04:23
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.3	µg/Kg-dry	1	4/1/2014 04:23
2-Methylnaphthalene	U		3.4	8.3	µg/Kg-dry	1	4/1/2014 04:23
Acenaphthene	U		1.2	8.3	µg/Kg-dry	1	4/1/2014 04:23
Acenaphthylene	**95**		**1.5**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Anthracene	**75**		**1.6**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Benzo(a)anthracene	**100**		**1.6**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Benzo(a)pyrene	**310**		**2.7**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Benzo(b)fluoranthene	**290**		**2.4**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Benzo(g,h,i)perylene	**1,500**		**3.2**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Benzo(k)fluoranthene	**99**		**1.7**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Chrysene	**130**		**2.0**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Dibenzo(a,h)anthracene	**120**		**3.1**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Fluoranthene	**130**		**2.9**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Fluorene	**24**		**2.8**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Indeno(1,2,3-cd)pyrene	**680**		**2.7**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Naphthalene	**21**		**3.0**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Phenanthrene	**140**		**1.7**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Pyrene	**140**		**2.8**	**8.3**	**µg/Kg-dry**	1	4/1/2014 04:23
Surr: 2-Fluorobiphenyl	*80.3*			*12-100*	*%REC*	1	4/1/2014 04:23
Surr: 4-Terphenyl-d14	*117*			*25-137*	*%REC*	1	4/1/2014 04:23
Surr: Nitrobenzene-d5	*78.3*			*37-107*	*%REC*	1	4/1/2014 04:23
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,600	3,100	µg/Kg-dry	1	3/26/2014 18:57
Surr: Toluene-d8	*95.0*			*70-130*	*%REC*	1	3/26/2014 18:57
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.31	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,1,2,2-Tetrachloroethane	U		0.20	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,1,2-Trichloroethane	U		0.27	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,1,2-Trichlorotrifluoroethane	U		0.39	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,1-Dichloroethane	**22**		**0.36**	**7.1**	**µg/Kg-dry**	1.13	3/28/2014 11:50

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: West Tank Pit Wall
Collection Date: 3/21/2014 09:20 AM

Work Order: 14031107
Lab ID: 14031107-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.32	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,2,4-Trichlorobenzene	U		0.29	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,2-Dibromo-3-chloropropane	U		0.28	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,2-Dibromoethane	U		0.29	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,2-Dichlorobenzene	U		0.29	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,2-Dichloroethane	U		0.39	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,2-Dichloropropane	U		0.37	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,3-Dichlorobenzene	U		0.27	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
1,4-Dichlorobenzene	U		0.30	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
2-Butanone	**17**		**1.1**	**14**	**µg/Kg-dry**	1.13	3/28/2014 11:50
2-Hexanone	U		0.43	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
4-Methyl-2-pentanone	U		0.28	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Acetone	**91**		**1.3**	**14**	**µg/Kg-dry**	1.13	3/28/2014 11:50
Benzene	**1.5**	J	**0.35**	**7.1**	**µg/Kg-dry**	1.13	3/28/2014 11:50
Bromodichloromethane	U		0.29	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Bromoform	U		0.22	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Bromomethane	U		0.50	14	µg/Kg-dry	1.13	3/28/2014 11:50
Carbon disulfide	**1.8**	J	**0.52**	**7.1**	**µg/Kg-dry**	1.13	3/28/2014 11:50
Carbon tetrachloride	U		0.29	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Chlorobenzene	U		0.31	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Chloroethane	U		0.79	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Chloroform	U		0.37	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Chloromethane	U		0.43	14	µg/Kg-dry	1.13	3/28/2014 11:50
cis-1,2-Dichloroethene	U		0.42	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
cis-1,3-Dichloropropene	U		0.25	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Cyclohexane	U		0.45	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Dibromochloromethane	U		0.24	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Dichlorodifluoromethane	U		0.47	14	µg/Kg-dry	1.13	3/28/2014 11:50
Ethylbenzene	U		0.27	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Isopropylbenzene	U		0.27	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
m,p-Xylene	U		0.53	3.5	µg/Kg-dry	1.13	3/28/2014 11:50
Methyl acetate	U		1.1	14	µg/Kg-dry	1.13	3/28/2014 11:50
Methyl tert-butyl ether	U		0.36	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Methylcyclohexane	U		0.39	14	µg/Kg-dry	1.13	3/28/2014 11:50
Methylene chloride	**3.2**	J	**0.40**	**7.1**	**µg/Kg-dry**	1.13	3/28/2014 11:50
o-Xylene	U		0.28	3.5	µg/Kg-dry	1.13	3/28/2014 11:50
Styrene	U		0.26	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Tetrachloroethene	U		0.42	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Toluene	**1.8**	J	**0.33**	**7.1**	**µg/Kg-dry**	1.13	3/28/2014 11:50
trans-1,2-Dichloroethene	U		0.41	7.1	µg/Kg-dry	1.13	3/28/2014 11:50

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: West Tank Pit Wall
Collection Date: 3/21/2014 09:20 AM

Work Order: 14031107
Lab ID: 14031107-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.26	14	µg/Kg-dry	1.13	3/28/2014 11:50
Trichloroethene	U		0.33	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Trichlorofluoromethane	U		1.6	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Vinyl chloride	U		0.43	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Xylenes, Total	U		0.81	7.1	µg/Kg-dry	1.13	3/28/2014 11:50
Surr: 1,2-Dichloroethane-d4	*117*			*70-120*	*%REC*	1.13	3/28/2014 11:50
Surr: 4-Bromofluorobenzene	*97.0*			*75-120*	*%REC*	1.13	3/28/2014 11:50
Surr: Dibromofluoromethane	*17.2*	S		*85-115*	*%REC*	1.13	3/28/2014 11:50
Surr: Toluene-d8	*95.6*			*85-120*	*%REC*	1.13	3/28/2014 11:50
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**20**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-1 (14-16)
Collection Date: 3/24/2014 01:04 PM

Work Order: 14031107
Lab ID: 14031107-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**11**		**0.0019**	**0.48**	**mg/Kg-dry**	1	3/31/2014 20:24
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.4	mg/Kg-dry	1	4/1/2014 01:55
ORO (C21-C35)	U		1.6	3.4	mg/Kg-dry	1	4/1/2014 01:55
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	4/1/2014 01:55
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.8	7.8	µg/Kg-dry	1	4/1/2014 01:55
2-Methylnaphthalene	U		3.2	7.8	µg/Kg-dry	1	4/1/2014 01:55
Acenaphthene	U		1.2	7.8	µg/Kg-dry	1	4/1/2014 01:55
Acenaphthylene	U		1.4	7.8	µg/Kg-dry	1	4/1/2014 01:55
Anthracene	U		1.5	7.8	µg/Kg-dry	1	4/1/2014 01:55
Benzo(a)anthracene	U		1.5	7.8	µg/Kg-dry	1	4/1/2014 01:55
Benzo(a)pyrene	U		2.5	7.8	µg/Kg-dry	1	4/1/2014 01:55
Benzo(b)fluoranthene	U		2.3	7.8	µg/Kg-dry	1	4/1/2014 01:55
Benzo(g,h,i)perylene	U		3.1	7.8	µg/Kg-dry	1	4/1/2014 01:55
Benzo(k)fluoranthene	U		1.7	7.8	µg/Kg-dry	1	4/1/2014 01:55
Chrysene	U		1.9	7.8	µg/Kg-dry	1	4/1/2014 01:55
Dibenzo(a,h)anthracene	U		2.9	7.8	µg/Kg-dry	1	4/1/2014 01:55
Fluoranthene	U		2.7	7.8	µg/Kg-dry	1	4/1/2014 01:55
Fluorene	U		2.6	7.8	µg/Kg-dry	1	4/1/2014 01:55
Indeno(1,2,3-cd)pyrene	U		2.6	7.8	µg/Kg-dry	1	4/1/2014 01:55
Naphthalene	U		2.9	7.8	µg/Kg-dry	1	4/1/2014 01:55
Phenanthrene	U		1.6	7.8	µg/Kg-dry	1	4/1/2014 01:55
Pyrene	U		2.6	7.8	µg/Kg-dry	1	4/1/2014 01:55
Surr: 2-Fluorobiphenyl	*87.9*			*12-100*	*%REC*	1	4/1/2014 01:55
Surr: 4-Terphenyl-d14	*121*			*25-137*	*%REC*	1	4/1/2014 01:55
Surr: Nitrobenzene-d5	*88.7*			*37-107*	*%REC*	1	4/1/2014 01:55
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	3/26/2014 19:23
Surr: Toluene-d8	*97.2*			*70-130*	*%REC*	1	3/26/2014 19:23
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.19	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,1,2,2-Tetrachloroethane	U		0.13	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,1,2-Trichloroethane	U		0.17	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,1,2-Trichlorotrifluoroethane	U		0.24	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,1-Dichloroethane	U		0.22	4.4	µg/Kg-dry	0.744	3/28/2014 12:16

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-1 (14-16)
Collection Date: 3/24/2014 01:04 PM

Work Order: 14031107
Lab ID: 14031107-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.20	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,2,4-Trichlorobenzene	U		0.18	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,2-Dibromo-3-chloropropane	U		0.17	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,2-Dibromoethane	U		0.18	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,2-Dichlorobenzene	U		0.18	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,2-Dichloroethane	U		0.24	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,2-Dichloropropane	U		0.23	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,3-Dichlorobenzene	U		0.17	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
1,4-Dichlorobenzene	U		0.18	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
2-Butanone	**3.4**	J	**0.68**	**8.8**	**µg/Kg-dry**	0.744	3/28/2014 12:16
2-Hexanone	U		0.27	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
4-Methyl-2-pentanone	U		0.17	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Acetone	**51**		**0.83**	**8.8**	**µg/Kg-dry**	0.744	3/28/2014 12:16
Benzene	U		0.22	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Bromodichloromethane	U		0.18	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Bromoform	U		0.14	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Bromomethane	U		0.31	8.8	µg/Kg-dry	0.744	3/28/2014 12:16
Carbon disulfide	U		0.32	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Carbon tetrachloride	U		0.18	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Chlorobenzene	U		0.19	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Chloroethane	U		0.50	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Chloroform	U		0.23	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Chloromethane	U		0.27	8.8	µg/Kg-dry	0.744	3/28/2014 12:16
cis-1,2-Dichloroethene	U		0.26	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
cis-1,3-Dichloropropene	U		0.16	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Cyclohexane	U		0.28	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Dibromochloromethane	U		0.15	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Dichlorodifluoromethane	U		0.29	8.8	µg/Kg-dry	0.744	3/28/2014 12:16
Ethylbenzene	U		0.17	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Isopropylbenzene	U		0.17	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
m,p-Xylene	U		0.33	2.2	µg/Kg-dry	0.744	3/28/2014 12:16
Methyl acetate	U		0.71	8.8	µg/Kg-dry	0.744	3/28/2014 12:16
Methyl tert-butyl ether	U		0.22	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Methylcyclohexane	U		0.24	8.8	µg/Kg-dry	0.744	3/28/2014 12:16
Methylene chloride	**1.4**	J	**0.25**	**4.4**	**µg/Kg-dry**	0.744	3/28/2014 12:16
o-Xylene	U		0.18	2.2	µg/Kg-dry	0.744	3/28/2014 12:16
Styrene	U		0.16	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Tetrachloroethene	U		0.26	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Toluene	**0.37**	J	**0.21**	**4.4**	**µg/Kg-dry**	0.744	3/28/2014 12:16
trans-1,2-Dichloroethene	U		0.26	4.4	µg/Kg-dry	0.744	3/28/2014 12:16

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-1 (14-16)
Collection Date: 3/24/2014 01:04 PM

Work Order: 14031107
Lab ID: 14031107-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.16	8.8	µg/Kg-dry	0.744	3/28/2014 12:16
Trichloroethene	U		0.21	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Trichlorofluoromethane	U		1.0	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Vinyl chloride	U		0.27	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Xylenes, Total	U		0.51	4.4	µg/Kg-dry	0.744	3/28/2014 12:16
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.744	3/28/2014 12:16
Surr: 4-Bromofluorobenzene	*95.8*			*75-120*	*%REC*	0.744	3/28/2014 12:16
Surr: Dibromofluoromethane	*17.9*	S		*85-115*	*%REC*	0.744	3/28/2014 12:16
Surr: Toluene-d8	*95.4*			*85-120*	*%REC*	0.744	3/28/2014 12:16
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-2 (4-6)
Collection Date: 3/24/2014 01:29 PM

Work Order: 14031107
Lab ID: 14031107-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**81**		**0.0019**	**0.46**	**mg/Kg-dry**	1	3/31/2014 21:07
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**11**		**1.5**	**3.5**	**mg/Kg-dry**	1	4/1/2014 04:47
ORO (C21-C35)	**30**		**1.7**	**3.5**	**mg/Kg-dry**	1	4/1/2014 04:47
Surr: 4-Terphenyl-d14	*109*			*25-137*	*%REC*	1	4/1/2014 04:47
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.0	µg/Kg-dry	1	4/1/2014 04:47
2-Methylnaphthalene	U		3.3	8.0	µg/Kg-dry	1	4/1/2014 04:47
Acenaphthene	**23**		**1.2**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Acenaphthylene	U		1.5	8.0	µg/Kg-dry	1	4/1/2014 04:47
Anthracene	**75**		**1.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Benzo(a)anthracene	**300**		**1.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Benzo(a)pyrene	**340**		**2.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Benzo(b)fluoranthene	**400**		**2.3**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Benzo(g,h,i)perylene	**270**		**3.1**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Benzo(k)fluoranthene	**150**		**1.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Chrysene	**340**		**1.9**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Dibenzo(a,h)anthracene	**56**		**3.0**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Fluoranthene	**600**		**2.8**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Fluorene	**21**		**2.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Indeno(1,2,3-cd)pyrene	**310**		**2.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Naphthalene	U		2.9	8.0	µg/Kg-dry	1	4/1/2014 04:47
Phenanthrene	**410**		**1.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Pyrene	**640**		**2.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 04:47
Surr: 2-Fluorobiphenyl	*73.2*			*12-100*	*%REC*	1	4/1/2014 04:47
Surr: 4-Terphenyl-d14	*109*			*25-137*	*%REC*	1	4/1/2014 04:47
Surr: Nitrobenzene-d5	*67.0*			*37-107*	*%REC*	1	4/1/2014 04:47
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	3/26/2014 19:49
Surr: Toluene-d8	*97.2*			*70-130*	*%REC*	1	3/26/2014 19:49
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,1-Dichloroethane	U		0.25	5.0	µg/Kg-dry	0.816	3/28/2014 12:41

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-2 (4-6)
Collection Date: 3/24/2014 01:29 PM

Work Order: 14031107
Lab ID: 14031107-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.23	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,2-Dibromoethane	U		0.20	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,2-Dichloroethane	U		0.28	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,2-Dichloropropane	U		0.26	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
2-Butanone	**6.8**	J	**0.77**	**10**	**µg/Kg-dry**	0.816	3/28/2014 12:41
2-Hexanone	U		0.30	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Acetone	**51**		**0.94**	**10**	**µg/Kg-dry**	0.816	3/28/2014 12:41
Benzene	U		0.25	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Bromodichloromethane	U		0.21	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Bromoform	U		0.15	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Bromomethane	U		0.35	10	µg/Kg-dry	0.816	3/28/2014 12:41
Carbon disulfide	U		0.37	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Carbon tetrachloride	U		0.20	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Chlorobenzene	U		0.22	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Chloroethane	U		0.56	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Chloroform	U		0.26	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Chloromethane	U		0.31	10	µg/Kg-dry	0.816	3/28/2014 12:41
cis-1,2-Dichloroethene	U		0.30	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Cyclohexane	U		0.32	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Dibromochloromethane	U		0.17	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Dichlorodifluoromethane	U		0.33	10	µg/Kg-dry	0.816	3/28/2014 12:41
Ethylbenzene	U		0.19	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Isopropylbenzene	U		0.19	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
m,p-Xylene	U		0.38	2.5	µg/Kg-dry	0.816	3/28/2014 12:41
Methyl acetate	U		0.80	10	µg/Kg-dry	0.816	3/28/2014 12:41
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Methylcyclohexane	U		0.28	10	µg/Kg-dry	0.816	3/28/2014 12:41
Methylene chloride	**1.3**	J	**0.28**	**5.0**	**µg/Kg-dry**	0.816	3/28/2014 12:41
o-Xylene	U		0.20	2.5	µg/Kg-dry	0.816	3/28/2014 12:41
Styrene	U		0.18	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Tetrachloroethene	U		0.30	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Toluene	U		0.24	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg-dry	0.816	3/28/2014 12:41

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-2 (4-6)
Collection Date: 3/24/2014 01:29 PM

Work Order: 14031107
Lab ID: 14031107-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.816	3/28/2014 12:41
Trichloroethene	U		0.23	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Trichlorofluoromethane	U		1.2	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Vinyl chloride	U		0.30	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Xylenes, Total	U		0.58	5.0	µg/Kg-dry	0.816	3/28/2014 12:41
Surr: 1,2-Dichloroethane-d4	*119*			*70-120*	*%REC*	0.816	3/28/2014 12:41
Surr: 4-Bromofluorobenzene	*97.2*			*75-120*	*%REC*	0.816	3/28/2014 12:41
Surr: Dibromofluoromethane	*21.0*	S		*85-115*	*%REC*	0.816	3/28/2014 12:41
Surr: Toluene-d8	*95.6*			*85-120*	*%REC*	0.816	3/28/2014 12:41
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**18**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-3 (14-16)
Collection Date: 3/24/2014 02:03 PM

Work Order: 14031107
Lab ID: 14031107-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**15**		**0.0016**	**0.40**	**mg/Kg-dry**	1	3/31/2014 21:13
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.5	mg/Kg-dry	1	4/1/2014 02:20
ORO (C21-C35)	U		1.7	3.5	mg/Kg-dry	1	4/1/2014 02:20
Surr: 4-Terphenyl-d14	*115*			*25-137*	*%REC*	1	4/1/2014 02:20
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.0	µg/Kg-dry	1	4/1/2014 02:20
2-Methylnaphthalene	U		3.3	8.0	µg/Kg-dry	1	4/1/2014 02:20
Acenaphthene	U		1.2	8.0	µg/Kg-dry	1	4/1/2014 02:20
Acenaphthylene	U		1.5	8.0	µg/Kg-dry	1	4/1/2014 02:20
Anthracene	U		1.6	8.0	µg/Kg-dry	1	4/1/2014 02:20
Benzo(a)anthracene	U		1.6	8.0	µg/Kg-dry	1	4/1/2014 02:20
Benzo(a)pyrene	U		2.6	8.0	µg/Kg-dry	1	4/1/2014 02:20
Benzo(b)fluoranthene	U		2.3	8.0	µg/Kg-dry	1	4/1/2014 02:20
Benzo(g,h,i)perylene	U		3.1	8.0	µg/Kg-dry	1	4/1/2014 02:20
Benzo(k)fluoranthene	U		1.7	8.0	µg/Kg-dry	1	4/1/2014 02:20
Chrysene	U		1.9	8.0	µg/Kg-dry	1	4/1/2014 02:20
Dibenzo(a,h)anthracene	U		3.0	8.0	µg/Kg-dry	1	4/1/2014 02:20
Fluoranthene	U		2.8	8.0	µg/Kg-dry	1	4/1/2014 02:20
Fluorene	U		2.7	8.0	µg/Kg-dry	1	4/1/2014 02:20
Indeno(1,2,3-cd)pyrene	U		2.7	8.0	µg/Kg-dry	1	4/1/2014 02:20
Naphthalene	U		2.9	8.0	µg/Kg-dry	1	4/1/2014 02:20
Phenanthrene	U		1.6	8.0	µg/Kg-dry	1	4/1/2014 02:20
Pyrene	U		2.7	8.0	µg/Kg-dry	1	4/1/2014 02:20
Surr: 2-Fluorobiphenyl	*82.7*			*12-100*	*%REC*	1	4/1/2014 02:20
Surr: 4-Terphenyl-d14	*115*			*25-137*	*%REC*	1	4/1/2014 02:20
Surr: Nitrobenzene-d5	*85.4*			*37-107*	*%REC*	1	4/1/2014 02:20
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	3/26/2014 20:16
Surr: Toluene-d8	*96.0*			*70-130*	*%REC*	1	3/26/2014 20:16
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,1,2-Trichlorotrifluoroethane	U		0.30	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.883	3/28/2014 13:07

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-3 (14-16)
Collection Date: 3/24/2014 02:03 PM

Work Order: 14031107
Lab ID: 14031107-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,2-Dibromoethane	U		0.22	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,2-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,2-Dichloroethane	U		0.30	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,2-Dichloropropane	U		0.28	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
2-Butanone	U		0.82	11	µg/Kg-dry	0.883	3/28/2014 13:07
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Acetone	**15**		**1.0**	**11**	**µg/Kg-dry**	0.883	3/28/2014 13:07
Benzene	U		0.26	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Bromoform	U		0.16	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Bromomethane	U		0.37	11	µg/Kg-dry	0.883	3/28/2014 13:07
Carbon disulfide	U		0.39	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Carbon tetrachloride	U		0.22	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Chlorobenzene	U		0.24	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Chloroethane	U		0.60	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Chloroform	U		0.28	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Chloromethane	U		0.33	11	µg/Kg-dry	0.883	3/28/2014 13:07
cis-1,2-Dichloroethene	U		0.32	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Cyclohexane	U		0.34	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.883	3/28/2014 13:07
Ethylbenzene	U		0.21	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Isopropylbenzene	U		0.21	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
m,p-Xylene	U		0.40	2.7	µg/Kg-dry	0.883	3/28/2014 13:07
Methyl acetate	U		0.86	11	µg/Kg-dry	0.883	3/28/2014 13:07
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Methylcyclohexane	U		0.30	11	µg/Kg-dry	0.883	3/28/2014 13:07
Methylene chloride	**0.66**	J	**0.30**	**5.3**	**µg/Kg-dry**	0.883	3/28/2014 13:07
o-Xylene	U		0.21	2.7	µg/Kg-dry	0.883	3/28/2014 13:07
Styrene	U		0.19	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Toluene	U		0.25	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.883	3/28/2014 13:07

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-3 (14-16)
Collection Date: 3/24/2014 02:03 PM

Work Order: 14031107
Lab ID: 14031107-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.883	3/28/2014 13:07
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Vinyl chloride	U		0.32	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.883	3/28/2014 13:07
Surr: 1,2-Dichloroethane-d4	*119*			*70-120*	*%REC*	0.883	3/28/2014 13:07
Surr: 4-Bromofluorobenzene	*97.8*			*75-120*	*%REC*	0.883	3/28/2014 13:07
Surr: Dibromofluoromethane	*37.4*	S		*85-115*	*%REC*	0.883	3/28/2014 13:07
Surr: Toluene-d8	*96.7*			*85-120*	*%REC*	0.883	3/28/2014 13:07
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**17**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-4 (3-4)
Collection Date: 3/24/2014 02:32 PM

Work Order: 14031107
Lab ID: 14031107-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**12**		**0.0017**	**0.42**	**mg/Kg-dry**	1	3/31/2014 21:19
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.6	3.7	mg/Kg-dry	1	4/1/2014 02:44
ORO (C21-C35)	U		1.7	3.7	mg/Kg-dry	1	4/1/2014 02:44
Surr: 4-Terphenyl-d14	*96.3*			*25-137*	*%REC*	1	4/1/2014 02:44
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		2.0	8.4	µg/Kg-dry	1	4/1/2014 02:44
2-Methylnaphthalene	U		3.5	8.4	µg/Kg-dry	1	4/1/2014 02:44
Acenaphthene	U		1.2	8.4	µg/Kg-dry	1	4/1/2014 02:44
Acenaphthylene	U		1.5	8.4	µg/Kg-dry	1	4/1/2014 02:44
Anthracene	U		1.6	8.4	µg/Kg-dry	1	4/1/2014 02:44
Benzo(a)anthracene	**25**		**1.6**	**8.4**	**µg/Kg-dry**	1	4/1/2014 02:44
Benzo(a)pyrene	U		2.7	8.4	µg/Kg-dry	1	4/1/2014 02:44
Benzo(b)fluoranthene	U		2.4	8.4	µg/Kg-dry	1	4/1/2014 02:44
Benzo(g,h,i)perylene	U		3.3	8.4	µg/Kg-dry	1	4/1/2014 02:44
Benzo(k)fluoranthene	U		1.8	8.4	µg/Kg-dry	1	4/1/2014 02:44
Chrysene	**22**		**2.0**	**8.4**	**µg/Kg-dry**	1	4/1/2014 02:44
Dibenzo(a,h)anthracene	U		3.1	8.4	µg/Kg-dry	1	4/1/2014 02:44
Fluoranthene	**59**		**2.9**	**8.4**	**µg/Kg-dry**	1	4/1/2014 02:44
Fluorene	U		2.8	8.4	µg/Kg-dry	1	4/1/2014 02:44
Indeno(1,2,3-cd)pyrene	U		2.8	8.4	µg/Kg-dry	1	4/1/2014 02:44
Naphthalene	U		3.1	8.4	µg/Kg-dry	1	4/1/2014 02:44
Phenanthrene	**23**		**1.7**	**8.4**	**µg/Kg-dry**	1	4/1/2014 02:44
Pyrene	**46**		**2.8**	**8.4**	**µg/Kg-dry**	1	4/1/2014 02:44
Surr: 2-Fluorobiphenyl	*69.7*			*12-100*	*%REC*	1	4/1/2014 02:44
Surr: 4-Terphenyl-d14	*96.3*			*25-137*	*%REC*	1	4/1/2014 02:44
Surr: Nitrobenzene-d5	*69.5*			*37-107*	*%REC*	1	4/1/2014 02:44
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,600	3,200	µg/Kg-dry	1	3/26/2014 20:43
Surr: Toluene-d8	*96.3*			*70-130*	*%REC*	1	3/26/2014 20:43
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.24	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,1,2,2-Tetrachloroethane	U		0.15	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,1,2-Trichloroethane	U		0.21	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,1,2-Trichlorotrifluoroethane	U		0.30	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,1-Dichloroethane	U		0.28	5.4	µg/Kg-dry	0.861	3/31/2014 11:37

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-4 (3-4)
Collection Date: 3/24/2014 02:32 PM

Work Order: 14031107
Lab ID: 14031107-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.25	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,2,4-Trichlorobenzene	U		0.23	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,2-Dibromo-3-chloropropane	U		0.22	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,2-Dibromoethane	U		0.22	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,2-Dichlorobenzene	U		0.22	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,2-Dichloroethane	U		0.30	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,2-Dichloropropane	U		0.28	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,3-Dichlorobenzene	U		0.20	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
1,4-Dichlorobenzene	U		0.23	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
2-Butanone	**6.8**	J	**0.84**	**11**	**µg/Kg-dry**	0.861	3/31/2014 11:37
2-Hexanone	U		0.33	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
4-Methyl-2-pentanone	U		0.22	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Acetone	**48**		**1.0**	**11**	**µg/Kg-dry**	0.861	3/31/2014 11:37
Benzene	U		0.27	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Bromodichloromethane	U		0.22	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Bromoform	U		0.17	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Bromomethane	U		0.38	11	µg/Kg-dry	0.861	3/31/2014 11:37
Carbon disulfide	U		0.40	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Carbon tetrachloride	U		0.22	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Chlorobenzene	U		0.24	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Chloroethane	U		0.61	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Chloroform	U		0.29	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Chloromethane	U		0.33	11	µg/Kg-dry	0.861	3/31/2014 11:37
cis-1,2-Dichloroethene	U		0.32	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
cis-1,3-Dichloropropene	U		0.20	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Cyclohexane	U		0.35	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Dibromochloromethane	U		0.18	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Dichlorodifluoromethane	U		0.36	11	µg/Kg-dry	0.861	3/31/2014 11:37
Ethylbenzene	U		0.21	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Isopropylbenzene	U		0.21	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
m,p-Xylene	U		0.41	2.7	µg/Kg-dry	0.861	3/31/2014 11:37
Methyl acetate	U		0.88	11	µg/Kg-dry	0.861	3/31/2014 11:37
Methyl tert-butyl ether	U		0.28	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Methylcyclohexane	U		0.30	11	µg/Kg-dry	0.861	3/31/2014 11:37
Methylene chloride	**1.4**	J	**0.31**	**5.4**	**µg/Kg-dry**	0.861	3/31/2014 11:37
o-Xylene	U		0.22	2.7	µg/Kg-dry	0.861	3/31/2014 11:37
Styrene	U		0.20	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Tetrachloroethene	U		0.33	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Toluene	**0.45**	J	**0.26**	**5.4**	**µg/Kg-dry**	0.861	3/31/2014 11:37
trans-1,2-Dichloroethene	U		0.32	5.4	µg/Kg-dry	0.861	3/31/2014 11:37

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-4 (3-4)
Collection Date: 3/24/2014 02:32 PM

Work Order: 14031107
Lab ID: 14031107-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.861	3/31/2014 11:37
Trichloroethene	U		0.25	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Trichlorofluoromethane	U		1.3	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Vinyl chloride	U		0.33	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Xylenes, Total	U		0.63	5.4	µg/Kg-dry	0.861	3/31/2014 11:37
Surr: 1,2-Dichloroethane-d4	*113*			*70-120*	*%REC*	0.861	3/31/2014 11:37
Surr: 4-Bromofluorobenzene	*97.0*			*75-120*	*%REC*	0.861	3/31/2014 11:37
Surr: Dibromofluoromethane	*19.2*	S		*85-115*	*%REC*	0.861	3/31/2014 11:37
Surr: Toluene-d8	*95.3*			*85-120*	*%REC*	0.861	3/31/2014 11:37
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-5 (3-4)
Collection Date: 3/24/2014 02:41 PM

Work Order: 14031107
Lab ID: 14031107-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**8.8**		**0.0019**	**0.47**	**mg/Kg-dry**	1	3/31/2014 21:25
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.6	mg/Kg-dry	1	4/1/2014 03:09
ORO (C21-C35)	U		1.7	3.6	mg/Kg-dry	1	4/1/2014 03:09
Surr: 4-Terphenyl-d14	*124*			*25-137*	*%REC*	1	4/1/2014 03:09
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.2	µg/Kg-dry	1	4/1/2014 03:09
2-Methylnaphthalene	U		3.4	8.2	µg/Kg-dry	1	4/1/2014 03:09
Acenaphthene	U		1.2	8.2	µg/Kg-dry	1	4/1/2014 03:09
Acenaphthylene	U		1.5	8.2	µg/Kg-dry	1	4/1/2014 03:09
Anthracene	U		1.6	8.2	µg/Kg-dry	1	4/1/2014 03:09
Benzo(a)anthracene	U		1.6	8.2	µg/Kg-dry	1	4/1/2014 03:09
Benzo(a)pyrene	U		2.7	8.2	µg/Kg-dry	1	4/1/2014 03:09
Benzo(b)fluoranthene	U		2.4	8.2	µg/Kg-dry	1	4/1/2014 03:09
Benzo(g,h,i)perylene	U		3.2	8.2	µg/Kg-dry	1	4/1/2014 03:09
Benzo(k)fluoranthene	U		1.7	8.2	µg/Kg-dry	1	4/1/2014 03:09
Chrysene	U		1.9	8.2	µg/Kg-dry	1	4/1/2014 03:09
Dibenzo(a,h)anthracene	U		3.0	8.2	µg/Kg-dry	1	4/1/2014 03:09
Fluoranthene	U		2.9	8.2	µg/Kg-dry	1	4/1/2014 03:09
Fluorene	U		2.8	8.2	µg/Kg-dry	1	4/1/2014 03:09
Indeno(1,2,3-cd)pyrene	U		2.7	8.2	µg/Kg-dry	1	4/1/2014 03:09
Naphthalene	U		3.0	8.2	µg/Kg-dry	1	4/1/2014 03:09
Phenanthrene	U		1.6	8.2	µg/Kg-dry	1	4/1/2014 03:09
Pyrene	U		2.8	8.2	µg/Kg-dry	1	4/1/2014 03:09
Surr: 2-Fluorobiphenyl	*81.7*			*12-100*	*%REC*	1	4/1/2014 03:09
Surr: 4-Terphenyl-d14	*124*			*25-137*	*%REC*	1	4/1/2014 03:09
Surr: Nitrobenzene-d5	*82.0*			*37-107*	*%REC*	1	4/1/2014 03:09
GASOLINE RANGE ORGANICS BY GC-MS		Method:	**SW8260GRO**		Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,600	3,100	µg/Kg-dry	1	3/26/2014 21:09
Surr: Toluene-d8	*96.2*			*70-130*	*%REC*	1	3/26/2014 21:09
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,1-Dichloroethane	U		0.25	5.0	µg/Kg-dry	0.798	3/28/2014 13:58

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-5 (3-4)
Collection Date: 3/24/2014 02:41 PM

Work Order: 14031107
Lab ID: 14031107-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.23	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,2-Dibromoethane	U		0.20	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,2-Dichloroethane	U		0.28	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,2-Dichloropropane	U		0.26	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
2-Butanone	**3.7**	J	**0.77**	**10**	**µg/Kg-dry**	0.798	3/28/2014 13:58
2-Hexanone	U		0.30	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Acetone	**31**		**0.94**	**10**	**µg/Kg-dry**	0.798	3/28/2014 13:58
Benzene	U		0.25	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Bromodichloromethane	U		0.21	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Bromoform	U		0.15	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Bromomethane	U		0.35	10	µg/Kg-dry	0.798	3/28/2014 13:58
Carbon disulfide	U		0.37	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Carbon tetrachloride	U		0.20	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Chlorobenzene	U		0.22	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Chloroethane	U		0.56	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Chloroform	U		0.26	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Chloromethane	U		0.31	10	µg/Kg-dry	0.798	3/28/2014 13:58
cis-1,2-Dichloroethene	U		0.30	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Cyclohexane	U		0.32	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Dibromochloromethane	U		0.17	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Dichlorodifluoromethane	U		0.33	10	µg/Kg-dry	0.798	3/28/2014 13:58
Ethylbenzene	U		0.19	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Isopropylbenzene	U		0.19	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
m,p-Xylene	U		0.38	2.5	µg/Kg-dry	0.798	3/28/2014 13:58
Methyl acetate	U		0.80	10	µg/Kg-dry	0.798	3/28/2014 13:58
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Methylcyclohexane	U		0.28	10	µg/Kg-dry	0.798	3/28/2014 13:58
Methylene chloride	**2.1**	J	**0.28**	**5.0**	**µg/Kg-dry**	0.798	3/28/2014 13:58
o-Xylene	U		0.20	2.5	µg/Kg-dry	0.798	3/28/2014 13:58
Styrene	U		0.18	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Tetrachloroethene	U		0.30	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Toluene	**0.45**	J	**0.24**	**5.0**	**µg/Kg-dry**	0.798	3/28/2014 13:58
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg-dry	0.798	3/28/2014 13:58

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-5 (3-4)
Collection Date: 3/24/2014 02:41 PM

Work Order: 14031107
Lab ID: 14031107-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.798	3/28/2014 13:58
Trichloroethene	U		0.23	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Trichlorofluoromethane	U		1.2	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Vinyl chloride	U		0.30	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Xylenes, Total	U		0.57	5.0	µg/Kg-dry	0.798	3/28/2014 13:58
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.798	3/28/2014 13:58
Surr: 4-Bromofluorobenzene	*98.8*			*75-120*	*%REC*	0.798	3/28/2014 13:58
Surr: Dibromofluoromethane	*22.0*	S		*85-115*	*%REC*	0.798	3/28/2014 13:58
Surr: Toluene-d8	*95.8*			*85-120*	*%REC*	0.798	3/28/2014 13:58
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**20**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-6 (1-3)
Collection Date: 3/24/2014 02:49 PM

Work Order: 14031107
Lab ID: 14031107-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**260**		**0.019**	**4.8**	**mg/Kg-dry**	10	4/1/2014 12:06
DIESEL RANGE ORGANICS BY GC-MS		Method: **SW8270**			Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**97**		**1.5**	**3.5**	**mg/Kg-dry**	1	4/1/2014 05:12
ORO (C21-C35)	**80**		**1.7**	**3.5**	**mg/Kg-dry**	1	4/1/2014 05:12
Surr: 4-Terphenyl-d14	*107*			*25-137*	*%REC*	1	4/1/2014 05:12
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW8270**			Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.0	µg/Kg-dry	1	4/1/2014 05:12
2-Methylnaphthalene	**610**		**3.3**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Acenaphthene	**68**		**1.2**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Acenaphthylene	**82**		**1.4**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Anthracene	**310**		**1.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Benzo(a)anthracene	**1,300**		**1.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Benzo(a)pyrene	**1,500**		**2.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Benzo(b)fluoranthene	**2,000**		**2.3**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Benzo(g,h,i)perylene	**1,500**		**3.1**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Benzo(k)fluoranthene	**660**		**1.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Chrysene	**1,400**		**1.9**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Dibenzo(a,h)anthracene	**380**		**3.0**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Fluoranthene	**2,100**		**2.8**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Fluorene	**69**		**2.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Indeno(1,2,3-cd)pyrene	**1,500**		**2.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Naphthalene	**320**		**2.9**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Phenanthrene	**1,200**		**1.6**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Pyrene	**2,300**		**2.7**	**8.0**	**µg/Kg-dry**	1	4/1/2014 05:12
Surr: 2-Fluorobiphenyl	*82.3*			*12-100*	*%REC*	1	4/1/2014 05:12
Surr: 4-Terphenyl-d14	*107*			*25-137*	*%REC*	1	4/1/2014 05:12
Surr: Nitrobenzene-d5	*75.9*			*37-107*	*%REC*	1	4/1/2014 05:12
GASOLINE RANGE ORGANICS BY GC-MS		Method: **SW8260GRO**			Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	**6,900**		**1,500**	**3,000**	**µg/Kg-dry**	1	3/26/2014 21:35
Surr: Toluene-d8	*96.0*			*70-130*	*%REC*	1	3/26/2014 21:35
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**			Prep: SW5035 / 3/26/14		Analyst: **BG**
1,1,1-Trichloroethane	U		14	36	µg/Kg-dry	1	3/26/2014 21:35
1,1,2,2-Tetrachloroethane	U		16	36	µg/Kg-dry	1	3/26/2014 21:35
1,1,2-Trichloroethane	U		13	36	µg/Kg-dry	1	3/26/2014 21:35
1,1,2-Trichlorotrifluoroethane	U		13	36	µg/Kg-dry	1	3/26/2014 21:35
1,1-Dichloroethane	U		13	36	µg/Kg-dry	1	3/26/2014 21:35

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-6 (1-3)
Collection Date: 3/24/2014 02:49 PM

Work Order: 14031107
Lab ID: 14031107-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
1,2,4-Trichlorobenzene	U		19	36	µg/Kg-dry	1	3/26/2014 21:35
1,2-Dibromo-3-chloropropane	U		18	36	µg/Kg-dry	1	3/26/2014 21:35
1,2-Dibromoethane	U		14	36	µg/Kg-dry	1	3/26/2014 21:35
1,2-Dichlorobenzene	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
1,2-Dichloroethane	U		17	36	µg/Kg-dry	1	3/26/2014 21:35
1,2-Dichloropropane	U		12	36	µg/Kg-dry	1	3/26/2014 21:35
1,3-Dichlorobenzene	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
1,4-Dichlorobenzene	U		14	36	µg/Kg-dry	1	3/26/2014 21:35
2-Butanone	U		90	240	µg/Kg-dry	1	3/26/2014 21:35
2-Hexanone	U		8.9	36	µg/Kg-dry	1	3/26/2014 21:35
4-Methyl-2-pentanone	U		12	36	µg/Kg-dry	1	3/26/2014 21:35
Acetone	U		77	120	µg/Kg-dry	1	3/26/2014 21:35
Benzene	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
Bromodichloromethane	U		8.2	36	µg/Kg-dry	1	3/26/2014 21:35
Bromoform	U		7.2	36	µg/Kg-dry	1	3/26/2014 21:35
Bromomethane	U		14	91	µg/Kg-dry	1	3/26/2014 21:35
Carbon disulfide	**46**		**18**	**36**	**µg/Kg-dry**	1	3/26/2014 21:35
Carbon tetrachloride	U		10	36	µg/Kg-dry	1	3/26/2014 21:35
Chlorobenzene	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
Chloroethane	U		77	120	µg/Kg-dry	1	3/26/2014 21:35
Chloroform	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
Chloromethane	U		20	120	µg/Kg-dry	1	3/26/2014 21:35
cis-1,2-Dichloroethene	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
cis-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	3/26/2014 21:35
Cyclohexane	U		16	36	µg/Kg-dry	1	3/26/2014 21:35
Dibromochloromethane	U		6.7	36	µg/Kg-dry	1	3/26/2014 21:35
Dichlorodifluoromethane	U		16	36	µg/Kg-dry	1	3/26/2014 21:35
Ethylbenzene	**94**		**14**	**36**	**µg/Kg-dry**	1	3/26/2014 21:35
Isopropylbenzene	**16**	J	**16**	**36**	**µg/Kg-dry**	1	3/26/2014 21:35
m,p-Xylene	**620**		**28**	**73**	**µg/Kg-dry**	1	3/26/2014 21:35
Methyl acetate	U		49	240	µg/Kg-dry	1	3/26/2014 21:35
Methyl tert-butyl ether	U		15	36	µg/Kg-dry	1	3/26/2014 21:35
Methylcyclohexane	U		17	36	µg/Kg-dry	1	3/26/2014 21:35
Methylene chloride	U		14	36	µg/Kg-dry	1	3/26/2014 21:35
o-Xylene	**310**		**15**	**36**	**µg/Kg-dry**	1	3/26/2014 21:35
Styrene	U		14	36	µg/Kg-dry	1	3/26/2014 21:35
Tetrachloroethene	U		16	36	µg/Kg-dry	1	3/26/2014 21:35
Toluene	**73**		**14**	**36**	**µg/Kg-dry**	1	3/26/2014 21:35
trans-1,2-Dichloroethene	U		11	36	µg/Kg-dry	1	3/26/2014 21:35

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-6 (1-3)
Collection Date: 3/24/2014 02:49 PM

Work Order: 14031107
Lab ID: 14031107-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	3/26/2014 21:35
Trichloroethene	U		17	36	µg/Kg-dry	1	3/26/2014 21:35
Trichlorofluoromethane	U		10	36	µg/Kg-dry	1	3/26/2014 21:35
Vinyl chloride	U		16	36	µg/Kg-dry	1	3/26/2014 21:35
Xylenes, Total	**930**		**43**	**110**	**µg/Kg-dry**	1	3/26/2014 21:35
Surr: 1,2-Dichloroethane-d4	*100*			*70-130*	*%REC*	1	3/26/2014 21:35
Surr: 4-Bromofluorobenzene	*98.6*			*70-130*	*%REC*	1	3/26/2014 21:35
Surr: Dibromofluoromethane	*93.6*			*70-130*	*%REC*	1	3/26/2014 21:35
Surr: Toluene-d8	*98.6*			*70-130*	*%REC*	1	3/26/2014 21:35
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**18**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-7 (4-5)
Collection Date: 3/24/2014 03:34 PM

Work Order: 14031107
Lab ID: 14031107-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**94**		**0.0016**	**0.39**	**mg/Kg-dry**	1	3/31/2014 21:37
DIESEL RANGE ORGANICS BY GC-MS		Method: **SW8270**			Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	**120**		**1.5**	**3.5**	**mg/Kg-dry**	1	4/1/2014 05:36
ORO (C21-C35)	**350**		**1.7**	**3.5**	**mg/Kg-dry**	1	4/1/2014 05:36
Surr: 4-Terphenyl-d14	*78.7*			*25-137*	*%REC*	1	4/1/2014 05:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW8270**			Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.9	8.1	µg/Kg-dry	1	4/1/2014 05:36
2-Methylnaphthalene	**730**		**3.4**	**8.1**	**µg/Kg-dry**	1	4/1/2014 05:36
Acenaphthene	**2,300**		**1.2**	**8.1**	**µg/Kg-dry**	1	4/1/2014 05:36
Acenaphthylene	**890**		**1.5**	**8.1**	**µg/Kg-dry**	1	4/1/2014 05:36
Anthracene	**7,800**		**40**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Benzo(a)anthracene	**16,000**		**40**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Benzo(a)pyrene	**15,000**		**66**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Benzo(b)fluoranthene	**16,000**		**59**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Benzo(g,h,i)perylene	**11,000**		**80**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Benzo(k)fluoranthene	**6,200**		**43**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Chrysene	**15,000**		**48**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Dibenzo(a,h)anthracene	**890**		**3.0**	**8.1**	**µg/Kg-dry**	1	4/1/2014 05:36
Fluoranthene	**35,000**		**71**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Fluorene	**2,200**		**2.7**	**8.1**	**µg/Kg-dry**	1	4/1/2014 05:36
Indeno(1,2,3-cd)pyrene	**12,000**		**67**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Naphthalene	**2,300**		**3.0**	**8.1**	**µg/Kg-dry**	1	4/1/2014 05:36
Phenanthrene	**29,000**		**41**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Pyrene	**31,000**		**68**	**200**	**µg/Kg-dry**	25	4/2/2014 01:52
Surr: 2-Fluorobiphenyl	*82.0*			*12-100*	*%REC*	1	4/1/2014 05:36
Surr: 4-Terphenyl-d14	*78.7*			*25-137*	*%REC*	1	4/1/2014 05:36
Surr: Nitrobenzene-d5	*66.1*			*37-107*	*%REC*	1	4/1/2014 05:36
GASOLINE RANGE ORGANICS BY GC-MS		Method: **SW8260GRO**			Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	3/26/2014 22:02
Surr: Toluene-d8	*97.1*			*70-130*	*%REC*	1	3/26/2014 22:02
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260**					Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,1,2,2-Tetrachloroethane	U		0.15	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,1,2-Trichloroethane	U		0.20	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,1,2-Trichlorotrifluoroethane	U		0.29	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,1-Dichloroethane	U		0.27	5.3	µg/Kg-dry	0.852	3/28/2014 14:24

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-7 (4-5)
Collection Date: 3/24/2014 03:34 PM

Work Order: 14031107
Lab ID: 14031107-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.24	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,2,4-Trichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,2-Dibromo-3-chloropropane	U		0.21	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,2-Dibromoethane	U		0.21	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,2-Dichlorobenzene	U		0.21	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,2-Dichloroethane	U		0.29	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,2-Dichloropropane	U		0.27	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,3-Dichlorobenzene	U		0.20	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
1,4-Dichlorobenzene	U		0.22	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
2-Butanone	**12**		**0.81**	**11**	**µg/Kg-dry**	0.852	3/28/2014 14:24
2-Hexanone	U		0.32	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
4-Methyl-2-pentanone	U		0.21	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Acetone	**74**		**0.99**	**11**	**µg/Kg-dry**	0.852	3/28/2014 14:24
Benzene	U		0.26	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Bromodichloromethane	U		0.22	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Bromoform	U		0.16	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Bromomethane	U		0.37	11	µg/Kg-dry	0.852	3/28/2014 14:24
Carbon disulfide	U		0.39	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Carbon tetrachloride	U		0.21	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Chlorobenzene	U		0.23	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Chloroethane	U		0.59	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Chloroform	U		0.28	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Chloromethane	U		0.32	11	µg/Kg-dry	0.852	3/28/2014 14:24
cis-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
cis-1,3-Dichloropropene	U		0.19	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Cyclohexane	U		0.34	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Dibromochloromethane	U		0.18	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Dichlorodifluoromethane	U		0.35	11	µg/Kg-dry	0.852	3/28/2014 14:24
Ethylbenzene	U		0.20	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Isopropylbenzene	U		0.20	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
m,p-Xylene	U		0.40	2.6	µg/Kg-dry	0.852	3/28/2014 14:24
Methyl acetate	U		0.85	11	µg/Kg-dry	0.852	3/28/2014 14:24
Methyl tert-butyl ether	U		0.27	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Methylcyclohexane	U		0.29	11	µg/Kg-dry	0.852	3/28/2014 14:24
Methylene chloride	**2.2**	J	**0.30**	**5.3**	**µg/Kg-dry**	0.852	3/28/2014 14:24
o-Xylene	U		0.21	2.6	µg/Kg-dry	0.852	3/28/2014 14:24
Styrene	U		0.19	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Tetrachloroethene	U		0.32	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Toluene	**0.79**	J	**0.25**	**5.3**	**µg/Kg-dry**	0.852	3/28/2014 14:24
trans-1,2-Dichloroethene	U		0.31	5.3	µg/Kg-dry	0.852	3/28/2014 14:24

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-7 (4-5)
Collection Date: 3/24/2014 03:34 PM

Work Order: 14031107
Lab ID: 14031107-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.20	11	µg/Kg-dry	0.852	3/28/2014 14:24
Trichloroethene	U		0.25	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Trichlorofluoromethane	U		1.2	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Vinyl chloride	U		0.32	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Xylenes, Total	U		0.61	5.3	µg/Kg-dry	0.852	3/28/2014 14:24
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.852	3/28/2014 14:24
Surr: 4-Bromofluorobenzene	*97.9*			*75-120*	*%REC*	0.852	3/28/2014 14:24
Surr: Dibromofluoromethane	*25.6*	S		*85-115*	*%REC*	0.852	3/28/2014 14:24
Surr: Toluene-d8	*96.8*			*85-120*	*%REC*	0.852	3/28/2014 14:24
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-8 (14-16)
Collection Date: 3/24/2014 04:03 PM

Work Order: 14031107
Lab ID: 14031107-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 3/31/14		Analyst: **ML**
Lead	**19**		**0.0016**	**0.40**	**mg/Kg-dry**	1	3/31/2014 21:43
DIESEL RANGE ORGANICS BY GC-MS		Method: **SW8270**			Prep: SW3541 / 3/27/14		Analyst: **RM**
DRO (C10-C21)	U		1.5	3.4	mg/Kg-dry	1	4/1/2014 06:01
ORO (C21-C35)	U		1.6	3.4	mg/Kg-dry	1	4/1/2014 06:01
Surr: 4-Terphenyl-d14	*94.2*			*25-137*	*%REC*	1	4/1/2014 06:01
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW8270**			Prep: SW3541 / 3/27/14		Analyst: **RM**
2-Chloronaphthalene	U		1.8	7.8	µg/Kg-dry	1	4/1/2014 06:01
2-Methylnaphthalene	U		3.2	7.8	µg/Kg-dry	1	4/1/2014 06:01
Acenaphthene	U		1.2	7.8	µg/Kg-dry	1	4/1/2014 06:01
Acenaphthylene	U		1.4	7.8	µg/Kg-dry	1	4/1/2014 06:01
Anthracene	U		1.5	7.8	µg/Kg-dry	1	4/1/2014 06:01
Benzo(a)anthracene	**28**		**1.5**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Benzo(a)pyrene	**58**		**2.5**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Benzo(b)fluoranthene	**52**		**2.3**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Benzo(g,h,i)perylene	**25**		**3.1**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Benzo(k)fluoranthene	**34**		**1.6**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Chrysene	**20**		**1.9**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Dibenzo(a,h)anthracene	U		2.9	7.8	µg/Kg-dry	1	4/1/2014 06:01
Fluoranthene	**55**		**2.7**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Fluorene	U		2.6	7.8	µg/Kg-dry	1	4/1/2014 06:01
Indeno(1,2,3-cd)pyrene	**41**		**2.6**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Naphthalene	U		2.9	7.8	µg/Kg-dry	1	4/1/2014 06:01
Phenanthrene	**27**		**1.6**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Pyrene	**37**		**2.6**	**7.8**	**µg/Kg-dry**	1	4/1/2014 06:01
Surr: 2-Fluorobiphenyl	*78.8*			*12-100*	*%REC*	1	4/1/2014 06:01
Surr: 4-Terphenyl-d14	*94.2*			*25-137*	*%REC*	1	4/1/2014 06:01
Surr: Nitrobenzene-d5	*76.7*			*37-107*	*%REC*	1	4/1/2014 06:01
GASOLINE RANGE ORGANICS BY GC-MS		Method: **SW8260GRO**			Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	3/26/2014 22:28
Surr: Toluene-d8	*95.1*			*70-130*	*%REC*	1	3/26/2014 22:28
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260**					Analyst: **AK**
1,1,1-Trichloroethane	U		0.19	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,1,2,2-Tetrachloroethane	U		0.12	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,1,2-Trichloroethane	U		0.17	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,1,2-Trichlorotrifluoroethane	U		0.24	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,1-Dichloroethane	U		0.22	4.3	µg/Kg-dry	0.733	3/28/2014 14:50

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-8 (14-16)
Collection Date: 3/24/2014 04:03 PM

Work Order: 14031107
Lab ID: 14031107-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	U		0.20	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,2,4-Trichlorobenzene	U		0.18	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,2-Dibromo-3-chloropropane	U		0.17	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,2-Dibromoethane	U		0.18	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,2-Dichlorobenzene	U		0.18	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,2-Dichloroethane	U		0.24	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,2-Dichloropropane	U		0.23	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,3-Dichlorobenzene	U		0.16	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
1,4-Dichlorobenzene	U		0.18	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
2-Butanone	U		0.67	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
2-Hexanone	U		0.26	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
4-Methyl-2-pentanone	U		0.17	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Acetone	**18**		**0.81**	**8.7**	**µg/Kg-dry**	0.733	3/28/2014 14:50
Benzene	U		0.22	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Bromodichloromethane	U		0.18	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Bromoform	U		0.13	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Bromomethane	U		0.31	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
Carbon disulfide	U		0.32	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Carbon tetrachloride	U		0.18	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Chlorobenzene	U		0.19	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Chloroethane	U		0.49	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Chloroform	U		0.23	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Chloromethane	U		0.27	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
cis-1,2-Dichloroethene	U		0.26	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
cis-1,3-Dichloropropene	U		0.16	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Cyclohexane	U		0.28	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Dibromochloromethane	U		0.15	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Dichlorodifluoromethane	U		0.29	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
Ethylbenzene	U		0.17	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Isopropylbenzene	U		0.17	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
m,p-Xylene	U		0.33	2.2	µg/Kg-dry	0.733	3/28/2014 14:50
Methyl acetate	U		0.70	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
Methyl tert-butyl ether	U		0.22	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Methylcyclohexane	U		0.24	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
Methylene chloride	**1.5**	J	**0.25**	**4.3**	**µg/Kg-dry**	0.733	3/28/2014 14:50
o-Xylene	U		0.17	2.2	µg/Kg-dry	0.733	3/28/2014 14:50
Styrene	U		0.16	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Tetrachloroethene	U		0.26	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Toluene	**0.39**	J	**0.21**	**4.3**	**µg/Kg-dry**	0.733	3/28/2014 14:50
trans-1,2-Dichloroethene	U		0.25	4.3	µg/Kg-dry	0.733	3/28/2014 14:50

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: SB-8 (14-16)
Collection Date: 3/24/2014 04:03 PM

Work Order: 14031107
Lab ID: 14031107-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.16	8.7	µg/Kg-dry	0.733	3/28/2014 14:50
Trichloroethene	U		0.20	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Trichlorofluoromethane	U		1.0	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Vinyl chloride	U		0.26	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Xylenes, Total	U		0.50	4.3	µg/Kg-dry	0.733	3/28/2014 14:50
Surr: 1,2-Dichloroethane-d4	*118*			*70-120*	*%REC*	0.733	3/28/2014 14:50
Surr: 4-Bromofluorobenzene	*97.8*			*75-120*	*%REC*	0.733	3/28/2014 14:50
Surr: Dibromofluoromethane	*31.8*	S		*85-115*	*%REC*	0.733	3/28/2014 14:50
Surr: Toluene-d8	*95.9*			*85-120*	*%REC*	0.733	3/28/2014 14:50
MOISTURE		Method:	**A2540 G**				Analyst: **AT**
Moisture	**16**		**0.025**	**0.050**	**% of sample**	1	3/26/2014 09:31

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Trip Blank
Collection Date: 3/24/2014

Work Order: 14031107
Lab ID: 14031107-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-MS		Method: **SW8260GRO**			Prep: SW5035 / 3/26/14		Analyst: **BG**
GRO (C6-C10)	U		1,200	2,500	µg/Kg	1	3/26/2014 14:32
Surr: Toluene-d8	*95.2*			*70-130*	*%REC*	1	3/26/2014 14:32
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260**					Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.0	µg/Kg	1	3/26/2014 11:00
1,1,2,2-Tetrachloroethane	U		0.14	5.0	µg/Kg	1	3/26/2014 11:00
1,1,2-Trichloroethane	U		0.19	5.0	µg/Kg	1	3/26/2014 11:00
1,1,2-Trichlorotrifluoroethane	U		0.28	5.0	µg/Kg	1	3/26/2014 11:00
1,1-Dichloroethane	U		0.26	5.0	µg/Kg	1	3/26/2014 11:00
1,1-Dichloroethene	U		0.23	5.0	µg/Kg	1	3/26/2014 11:00
1,2,4-Trichlorobenzene	U		0.21	5.0	µg/Kg	1	3/26/2014 11:00
1,2-Dibromo-3-chloropropane	U		0.20	5.0	µg/Kg	1	3/26/2014 11:00
1,2-Dibromoethane	U		0.20	5.0	µg/Kg	1	3/26/2014 11:00
1,2-Dichlorobenzene	U		0.20	5.0	µg/Kg	1	3/26/2014 11:00
1,2-Dichloroethane	U		0.28	5.0	µg/Kg	1	3/26/2014 11:00
1,2-Dichloropropane	U		0.26	5.0	µg/Kg	1	3/26/2014 11:00
1,3-Dichlorobenzene	U		0.19	5.0	µg/Kg	1	3/26/2014 11:00
1,4-Dichlorobenzene	U		0.21	5.0	µg/Kg	1	3/26/2014 11:00
2-Butanone	U		0.77	10	µg/Kg	1	3/26/2014 11:00
2-Hexanone	U		0.30	5.0	µg/Kg	1	3/26/2014 11:00
4-Methyl-2-pentanone	U		0.20	5.0	µg/Kg	1	3/26/2014 11:00
Acetone	U		0.94	10	µg/Kg	1	3/26/2014 11:00
Benzene	U		0.25	5.0	µg/Kg	1	3/26/2014 11:00
Bromodichloromethane	U		0.21	5.0	µg/Kg	1	3/26/2014 11:00
Bromoform	U		0.15	5.0	µg/Kg	1	3/26/2014 11:00
Bromomethane	U		0.35	10	µg/Kg	1	3/26/2014 11:00
Carbon disulfide	U		0.37	5.0	µg/Kg	1	3/26/2014 11:00
Carbon tetrachloride	U		0.20	5.0	µg/Kg	1	3/26/2014 11:00
Chlorobenzene	U		0.22	5.0	µg/Kg	1	3/26/2014 11:00
Chloroethane	U		0.56	5.0	µg/Kg	1	3/26/2014 11:00
Chloroform	U		0.26	5.0	µg/Kg	1	3/26/2014 11:00
Chloromethane	U		0.31	10	µg/Kg	1	3/26/2014 11:00
cis-1,2-Dichloroethene	U		0.30	5.0	µg/Kg	1	3/26/2014 11:00
cis-1,3-Dichloropropene	U		0.18	5.0	µg/Kg	1	3/26/2014 11:00
Cyclohexane	U		0.32	5.0	µg/Kg	1	3/26/2014 11:00
Dibromochloromethane	U		0.17	5.0	µg/Kg	1	3/26/2014 11:00
Dichlorodifluoromethane	U		0.33	10	µg/Kg	1	3/26/2014 11:00
Ethylbenzene	U		0.19	5.0	µg/Kg	1	3/26/2014 11:00
Isopropylbenzene	U		0.19	5.0	µg/Kg	1	3/26/2014 11:00

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

ALS Group USA, Corp

Date: *03-Apr-14*

Client: Tetra Tech
Project: Spotless Car Wash March 2014
Sample ID: Trip Blank
Collection Date: 3/24/2014

Work Order: 14031107
Lab ID: 14031107-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
m,p-Xylene	U		0.38	2.5	µg/Kg	1	3/26/2014 11:00
Methyl acetate	U		0.80	10	µg/Kg	1	3/26/2014 11:00
Methyl tert-butyl ether	U		0.25	5.0	µg/Kg	1	3/26/2014 11:00
Methylcyclohexane	U		0.28	10	µg/Kg	1	3/26/2014 11:00
Methylene chloride	**0.81**	J	**0.28**	**5.0**	**µg/Kg**	1	3/26/2014 11:00
o-Xylene	U		0.20	2.5	µg/Kg	1	3/26/2014 11:00
Styrene	U		0.18	5.0	µg/Kg	1	3/26/2014 11:00
Tetrachloroethene	U		0.30	5.0	µg/Kg	1	3/26/2014 11:00
Toluene	U		0.24	5.0	µg/Kg	1	3/26/2014 11:00
trans-1,2-Dichloroethene	U		0.29	5.0	µg/Kg	1	3/26/2014 11:00
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg	1	3/26/2014 11:00
Trichloroethene	U		0.23	5.0	µg/Kg	1	3/26/2014 11:00
Trichlorofluoromethane	U		1.2	5.0	µg/Kg	1	3/26/2014 11:00
Vinyl chloride	U		0.30	5.0	µg/Kg	1	3/26/2014 11:00
Xylenes, Total	U		0.58	5.0	µg/Kg	1	3/26/2014 11:00
Surr: 1,2-Dichloroethane-d4	*115*			*70-120*	*%REC*	1	3/26/2014 11:00
Surr: 4-Bromofluorobenzene	*97.2*			*75-120*	*%REC*	1	3/26/2014 11:00
Surr: Dibromofluoromethane	*39.1*	S		*85-115*	*%REC*	1	3/26/2014 11:00
Surr: Toluene-d8	*97.5*			*85-120*	*%REC*	1	3/26/2014 11:00

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

ALS Group USA, Corp

Date: 03-Apr-14

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **57016** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-57016-57016** Units: **mg/Kg** Analysis Date: **3/30/2014 06:35 AM**
Client ID: Run ID: **ICPMS1_140329A** SeqNo: **2690843** Prep Date: **3/28/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	U	0.25								

LCS Sample ID: **LCS-57016-57016** Units: **mg/Kg** Analysis Date: **3/30/2014 06:41 AM**
Client ID: Run ID: **ICPMS1_140329A** SeqNo: **2690844** Prep Date: **3/28/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4.848	0.25	5	0	97	80-120	0			

MS Sample ID: **14031119-21AMS** Units: **mg/Kg** Analysis Date: **3/30/2014 03:02 PM**
Client ID: Run ID: **ICPMS1_140330A** SeqNo: **2691288** Prep Date: **3/28/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	7.29	0.33	6.658	0.905	95.9	75-125	0			

MSD Sample ID: **14031119-21AMSD** Units: **mg/Kg** Analysis Date: **3/30/2014 03:09 PM**
Client ID: Run ID: **ICPMS1_140330A** SeqNo: **2691289** Prep Date: **3/28/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	7.171	0.32	6.386	0.905	98.1	75-125	7.29	1.65	25	

The following samples were analyzed in this batch:

14031107-01C	14031107-02C	14031107-03C
14031107-04C	14031107-05C	14031107-06C
14031107-07C	14031107-08C	

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **57065** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-57065-57065** Units: **mg/Kg** Analysis Date: **3/31/2014 07:59 PM**

Client ID: Run ID: **ICPMS1_140331A** SeqNo: **2693094** Prep Date: **3/31/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	U	0.25								

LCS Sample ID: **LCS-57065-57065** Units: **mg/Kg** Analysis Date: **3/31/2014 08:05 PM**

Client ID: Run ID: **ICPMS1_140331A** SeqNo: **2693095** Prep Date: **3/31/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4.922	0.25	5	0	98.4	80-120	0			

MS Sample ID: **14031107-11CMS** Units: **mg/Kg** Analysis Date: **3/31/2014 08:36 PM**

Client ID: **SB-1 (14-16)** Run ID: **ICPMS1_140331A** SeqNo: **2693100** Prep Date: **3/31/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	17.14	0.41	8.17	9.264	96.4	75-125	0			

MSD Sample ID: **14031107-11CMSD** Units: **mg/Kg** Analysis Date: **3/31/2014 08:42 PM**

Client ID: **SB-1 (14-16)** Run ID: **ICPMS1_140331A** SeqNo: **2693101** Prep Date: **3/31/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	17.04	0.40	8.052	9.264	96.5	75-125	17.14	0.606	25	

The following samples were analyzed in this batch:

14031107-09C	14031107-10C	14031107-11C
14031107-12C	14031107-13C	14031107-14C
14031107-15C	14031107-16C	14031107-17C
14031107-18C		

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56938** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **SBLKS1-56938-56938** Units: **µg/Kg** Analysis Date: **3/31/2014 08:03 PM**

Client ID: Run ID: **SVMS8_140331A** SeqNo: **2694091** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	U	6.7								
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	*1365*	0	*1667*	0	*81.9*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2175*	0	*1667*	0	*130*	*25-137*	0			
Surr: Nitrobenzene-d5	*1363*	0	*1667*	0	*81.8*	*37-107*	0			

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56938** Instrument ID **SVMS8** Method: **SW8270**

LCS Sample ID: **SLCSS1-56938-56938** Units: **µg/Kg** Analysis Date: **3/31/2014 08:29 PM**

Client ID: Run ID: **SVMS8_140331A** SeqNo: **2694092** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	551.7	6.7	666.7	0	82.7	45-105	0			
2-Methylnaphthalene	532.3	6.7	666.7	0	79.8	45-105	0			
Acenaphthene	531.3	6.7	666.7	0	79.7	45-110	0			
Acenaphthylene	551	6.7	666.7	0	82.6	45-105	0			
Anthracene	601.3	6.7	666.7	0	90.2	55-105	0			
Benzo(a)anthracene	632.3	6.7	666.7	0	94.8	50-110	0			
Benzo(a)pyrene	652.7	6.7	666.7	0	97.9	50-110	0			
Benzo(b)fluoranthene	610.3	6.7	666.7	0	91.5	45-115	0			
Benzo(g,h,i)perylene	732	6.7	666.7	0	110	40-125	0			
Benzo(k)fluoranthene	591.7	6.7	666.7	0	88.7	45-115	0			
Chrysene	602	6.7	666.7	0	90.3	55-110	0			
Dibenzo(a,h)anthracene	718.3	6.7	666.7	0	108	40-125	0			
Fluoranthene	507.7	6.7	666.7	0	76.1	55-115	0			
Fluorene	521.7	6.7	666.7	0	78.2	50-110	0			
Indeno(1,2,3-cd)pyrene	747	6.7	666.7	0	112	40-120	0			
Naphthalene	490.3	6.7	666.7	0	73.5	40-105	0			
Phenanthrene	553.3	6.7	666.7	0	83	50-110	0			
Pyrene	711.7	6.7	666.7	0	107	45-125	0			
Surr: 2-Fluorobiphenyl	*1457*	0	*1667*	0	*87.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2020*	0	*1667*	0	*121*	*25-137*	0			
Surr: Nitrobenzene-d5	*1423*	0	*1667*	0	*85.4*	*37-107*	0			

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56938** Instrument ID **SVMS8** Method: **SW8270**

MS Sample ID: **14031107-01C MS** Units: **µg/Kg** Analysis Date: **3/31/2014 08:54 PM**

Client ID: **Tank 5 Floor** Run ID: **SVMS8_140331A** SeqNo: **2694093** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1091	13	1306	0	83.5	45-105	0			
2-Methylnaphthalene	1096	13	1306	0	83.9	45-105	0			
Acenaphthene	1065	13	1306	0	81.5	45-110	0			
Acenaphthylene	1000	13	1306	0	76.6	45-105	0			
Anthracene	1242	13	1306	0	95.1	55-105	0			
Benzo(a)anthracene	1273	13	1306	0	97.5	50-110	0			
Benzo(a)pyrene	1299	13	1306	0	99.5	50-110	0			
Benzo(b)fluoranthene	1238	13	1306	0	94.8	45-115	0			
Benzo(g,h,i)perylene	1497	13	1306	0	115	40-125	0			
Benzo(k)fluoranthene	1169	13	1306	0	89.5	45-115	0			
Chrysene	1210	13	1306	0	92.6	55-110	0			
Dibenzo(a,h)anthracene	1446	13	1306	0	111	40-125	0			
Fluoranthene	1059	13	1306	0	81.1	55-115	0			
Fluorene	1092	13	1306	0	83.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1517	13	1306	0	116	40-120	0			
Naphthalene	1014	13	1306	0	77.7	40-105	0			
Phenanthrene	1155	13	1306	0	88.4	50-110	0			
Pyrene	1473	13	1306	0	113	45-125	0			
Surr: 2-Fluorobiphenyl	*2828*	0	*3264*	0	*86.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3971*	0	*3264*	0	*122*	*25-137*	0			
Surr: Nitrobenzene-d5	*2890*	0	*3264*	0	*88.5*	*37-107*	0			

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56938** Instrument ID **SVMS8** Method: **SW8270**

MSD Sample ID: **14031107-01C MSD** Units: **µg/Kg** Analysis Date: **3/31/2014 09:19 PM**

Client ID: **Tank 5 Floor** Run ID: **SVMS8_140331A** SeqNo: **2694094** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1021	13	1255	0	81.3	45-105	1091	6.58	30	
2-Methylnaphthalene	945.3	13	1255	0	75.3	45-105	1096	14.8	30	
Acenaphthene	981.7	13	1255	0	78.2	45-110	1065	8.11	30	
Acenaphthylene	999.2	13	1255	0	79.6	45-105	1000	0.0753	30	
Anthracene	1182	13	1255	0	94.1	55-105	1242	4.92	30	
Benzo(a)anthracene	1206	13	1255	0	96	50-110	1273	5.47	30	
Benzo(a)pyrene	1237	13	1255	0	98.5	50-110	1299	4.93	30	
Benzo(b)fluoranthene	1136	13	1255	0	90.5	45-115	1238	8.61	30	
Benzo(g,h,i)perylene	1436	13	1255	0	114	40-125	1497	4.18	30	
Benzo(k)fluoranthene	1110	13	1255	0	88.4	45-115	1169	5.21	30	
Chrysene	1134	13	1255	0	90.3	55-110	1210	6.43	30	
Dibenzo(a,h)anthracene	1369	13	1255	0	109	40-125	1446	5.46	30	
Fluoranthene	991.7	13	1255	0	79	55-115	1059	6.54	30	
Fluorene	972.9	13	1255	0	77.5	50-110	1092	11.5	30	
Indeno(1,2,3-cd)pyrene	1445	13	1255	0	115	40-120	1517	4.87	30	
Naphthalene	890.7	13	1255	0	70.9	40-105	1014	13	30	
Phenanthrene	1075	13	1255	0	85.6	50-110	1155	7.19	30	
Pyrene	1338	13	1255	0	107	45-125	1473	9.61	30	
Surr: 2-Fluorobiphenyl	*2681*	0	*3138*	0	*85.4*	*12-100*	2828	*5.36*	*40*	
Surr: 4-Terphenyl-d14	*3691*	0	*3138*	0	*118*	*25-137*	3971	*7.31*	*40*	
Surr: Nitrobenzene-d5	*2623*	0	*3138*	0	*83.6*	*37-107*	2890	*9.67*	*40*	

The following samples were analyzed in this batch:

14031107-01C	14031107-02C	14031107-03C
14031107-04C	14031107-05C	14031107-06C
14031107-07C	14031107-08C	14031107-09C
14031107-10C	14031107-11C	14031107-12C
14031107-13C	14031107-14C	14031107-15C
14031107-16C	14031107-17C	14031107-18C

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56943** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **DBLKS1-56943-56943** Units: **mg/Kg** Analysis Date: **3/31/2014 08:03 PM**
Client ID: Run ID: **SVMS8_140331A** SeqNo: **2694046** Prep Date: **3/27/2014** DF: **1**

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								
Surr: 4-Terphenyl-d14	*2.175*	0	*1.667*	0	*130*	*25-137*	0			

LCS Sample ID: **DLCSS1-56943-56943** Units: **mg/Kg** Analysis Date: **3/31/2014 09:44 PM**
Client ID: Run ID: **SVMS8_140331A** SeqNo: **2694047** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	113	4.2	166.7	0	67.8	31-135	0			
ORO (C21-C35)	94.75	4.2	166.7	0	56.9	31-135	0			
Surr: 4-Terphenyl-d14	*1.809*	0	*1.667*	0	*109*	*25-137*	0			

MS Sample ID: **14031107-01C MS** Units: **mg/Kg** Analysis Date: **3/31/2014 10:10 PM**
Client ID: **Tank 5 Floor** Run ID: **SVMS8_140331A** SeqNo: **2694048** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	205.8	8.2	327.5	0	62.8	31-135	0			
ORO (C21-C35)	181.9	8.2	327.5	0	55.5	31-135	0			
Surr: 4-Terphenyl-d14	*3.614*	0	*3.275*	0	*110*	*25-137*	0			

MSD Sample ID: **14031107-01C MSD** Units: **mg/Kg** Analysis Date: **3/31/2014 10:35 PM**
Client ID: **Tank 5 Floor** Run ID: **SVMS8_140331A** SeqNo: **2694050** Prep Date: **3/27/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	184.7	8.2	326.7	0	56.5	31-135	205.8	10.8	30	
ORO (C21-C35)	177.7	8.2	326.7	0	54.4	31-135	181.9	2.33	30	
Surr: 4-Terphenyl-d14	*3.31*	0	*3.267*	0	*101*	*25-137*	3.614	*8.76*	*30*	

The following samples were analyzed in this batch:

14031107-01C	14031107-02C	14031107-03C
14031107-04C	14031107-05C	14031107-06C
14031107-07C	14031107-08C	14031107-09C
14031107-10C	14031107-11C	14031107-12C
14031107-13C	14031107-14C	14031107-15C
14031107-16C	14031107-17C	14031107-18C

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **MBLK-56907-56907** Units: **µg/Kg** Analysis Date: **3/26/2014 02:05 PM**

Client ID: Run ID: **VMS5_140326A** SeqNo: **2686734** Prep Date: **3/26/2014** DF: **1**

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.

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

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								
Surr: 1,2-Dichloroethane-d4	*998.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*969*	0	*1000*	0	*96.9*	*70-130*	0			
Surr: Dibromofluoromethane	*982.5*	0	*1000*	0	*98.2*	*70-130*	0			
Surr: Toluene-d8	*980*	0	*1000*	0	*98*	*70-130*	0			

MBLK Sample ID: **MBLK-56907-56907** Units: **µg/Kg** Analysis Date: **3/26/2014 02:05 PM**

Client ID: Run ID: **VMS5_140326A** SeqNo: **2686779** Prep Date: **3/26/2014** 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	*980*	0	*1000*	0	*98*	*70-130*	0			

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

LCS Sample ID: **LCS-56907-56907** Units: **µg/Kg** Analysis Date: **3/26/2014 12:46 PM**

Client ID: Run ID: **VMS5_140326A** SeqNo: **2686733** Prep Date: **3/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	949	30	1000	0	94.9	70-135	0			
1,1,2,2-Tetrachloroethane	984.5	30	1000	0	98.4	55-130	0			
1,1,2-Trichloroethane	961.5	30	1000	0	96.2	60-125	0			
1,1-Dichloroethane	1002	30	1000	0	100	75-125	0			
1,1-Dichloroethene	1024	30	1000	0	102	65-135	0			
1,2,4-Trichlorobenzene	883.5	30	1000	0	88.4	65-130	0			
1,2-Dibromo-3-chloropropane	863	30	1000	0	86.3	40-135	0			
1,2-Dibromoethane	1090	30	1000	0	109	75-125	0			
1,2-Dichlorobenzene	911	30	1000	0	91.1	75-120	0			
1,2-Dichloroethane	959.5	30	1000	0	96	70-135	0			
1,2-Dichloropropane	946.5	30	1000	0	94.6	70-120	0			
1,3-Dichlorobenzene	928	30	1000	0	92.8	70-125	0			
1,4-Dichlorobenzene	901	30	1000	0	90.1	70-125	0			
2-Butanone	1308	200	1000	0	131	30-160	0			
2-Hexanone	1152	30	1000	0	115	45-145	0			
4-Methyl-2-pentanone	1495	30	1000	0	150	96-168	0			
Acetone	1360	100	1000	0	136	20-160	0			
Benzene	972.5	30	1000	0	97.2	75-125	0			
Bromodichloromethane	970.5	30	1000	0	97	70-130	0			
Bromoform	778	30	1000	0	77.8	55-135	0			
Bromomethane	1182	75	1000	0	118	30-160	0			
Carbon disulfide	1092	30	1000	0	109	45-160	0			
Carbon tetrachloride	923.5	30	1000	0	92.4	65-135	0			
Chlorobenzene	924.5	30	1000	0	92.4	75-125	0			
Chloroethane	1082	100	1000	0	108	40-155	0			
Chloroform	962	30	1000	0	96.2	70-125	0			
Chloromethane	1035	100	1000	0	104	50-130	0			
cis-1,2-Dichloroethene	987	30	1000	0	98.7	65-125	0			
cis-1,3-Dichloropropene	1032	30	1000	0	103	70-125	0			
Dibromochloromethane	773	30	1000	0	77.3	65-135	0			
Dichlorodifluoromethane	897	30	1000	0	89.7	35-135	0			
Ethylbenzene	962	30	1000	0	96.2	75-125	0			
Isopropylbenzene	945	30	1000	0	94.5	75-130	0			
m,p-Xylene	1923	60	2000	0	96.2	80-125	0			
Methyl tert-butyl ether	1052	30	1000	0	105	75-125	0			
Methylene chloride	1083	30	1000	0	108	55-145	0			
o-Xylene	966	30	1000	0	96.6	75-125	0			
Styrene	999.5	30	1000	0	100	75-125	0			
Tetrachloroethene	903.5	30	1000	0	90.4	64-140	0			
Toluene	940	30	1000	0	94	70-125	0			
trans-1,2-Dichloroethene	1038	30	1000	0	104	65-135	0			
trans-1,3-Dichloropropene	996	30	1000	0	99.6	65-125	0			

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

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

Trichloroethene	947	30	1000	0	94.7	75-125	0
Trichlorofluoromethane	1008	30	1000	0	101	25-185	0
Vinyl chloride	1049	30	1000	0	105	60-125	0
Xylenes, Total	2889	90	3000	0	96.3	75-125	0
Surr: 1,2-Dichloroethane-d4	*981.5*	0	*1000*	0	*98.2*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1002*	0	*1000*	0	*100*	*70-130*	0
Surr: Dibromofluoromethane	*994*	0	*1000*	0	*99.4*	*70-130*	0
Surr: Toluene-d8	*985.5*	0	*1000*	0	*98.6*	*70-130*	0

LCS Sample ID: **LCS-56907-56907** Units: **µg/Kg** Analysis Date: **3/26/2014 01:12 PM**

Client ID: Run ID: **VMS5_140326A** SeqNo: **2686778** Prep Date: **3/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	22290	5,000	25000	0	89.1	70-130	0			
Surr: Toluene-d8	*782*	0	*1000*	0	*78.2*	*70-130*	0			

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

MS Sample ID: **14031107-17A MS** Units: **µg/Kg** Analysis Date: **3/26/2014 10:54 PM**

Client ID: **SB-7 (4-5)** Run ID: **VMS5_140326A** SeqNo: **2686735** Prep Date: **3/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	989.5	30	1000	0	99	70-135	0			
1,1,2,2-Tetrachloroethane	935	30	1000	0	93.5	55-130	0			
1,1,2-Trichloroethane	980	30	1000	0	98	60-125	0			
1,1-Dichloroethane	1016	30	1000	0	102	75-125	0			
1,1-Dichloroethene	1114	30	1000	0	111	65-135	0			
1,2,4-Trichlorobenzene	934.5	30	1000	0	93.4	65-130	0			
1,2-Dibromo-3-chloropropane	672	30	1000	0	67.2	40-135	0			
1,2-Dibromoethane	1092	30	1000	0	109	75-125	0			
1,2-Dichlorobenzene	948	30	1000	0	94.8	75-120	0			
1,2-Dichloroethane	984	30	1000	0	98.4	70-135	0			
1,2-Dichloropropane	967	30	1000	0	96.7	70-120	0			
1,3-Dichlorobenzene	962	30	1000	0	96.2	70-125	0			
1,4-Dichlorobenzene	937	30	1000	0	93.7	70-125	0			
2-Butanone	1208	200	1000	0	121	30-160	0			
2-Hexanone	1082	30	1000	0	108	45-145	0			
4-Methyl-2-pentanone	1403	30	1000	0	140	89-161	0			
Acetone	1366	100	1000	0	137	20-160	0			
Benzene	1008	30	1000	0	101	75-125	0			
Bromodichloromethane	875	30	1000	0	87.5	70-130	0			
Bromoform	598.5	30	1000	0	59.8	55-135	0			
Bromomethane	911	75	1000	0	91.1	30-160	0			
Carbon disulfide	1046	30	1000	0	105	45-160	0			
Carbon tetrachloride	870	30	1000	0	87	65-135	0			
Chlorobenzene	948.5	30	1000	0	94.8	75-125	0			
Chloroethane	1116	100	1000	0	112	40-155	0			
Chloroform	964.5	30	1000	0	96.4	70-125	0			
Chloromethane	1086	100	1000	0	109	50-130	0			
cis-1,2-Dichloroethene	974	30	1000	0	97.4	65-125	0			
cis-1,3-Dichloropropene	980	30	1000	0	98	70-125	0			
Dibromochloromethane	633	30	1000	0	63.3	65-135	0			S
Dichlorodifluoromethane	1050	30	1000	0	105	35-135	0			
Ethylbenzene	992.5	30	1000	0	99.2	75-125	0			
Isopropylbenzene	994	30	1000	0	99.4	75-130	0			
m,p-Xylene	1976	60	2000	0	98.8	80-125	0			
Methyl tert-butyl ether	1069	30	1000	0	107	75-125	0			
Methylene chloride	1110	30	1000	0	111	55-145	0			
o-Xylene	994.5	30	1000	0	99.4	75-125	0			
Styrene	1030	30	1000	0	103	75-125	0			
Tetrachloroethene	957.5	30	1000	0	95.8	64-140	0			
Toluene	966	30	1000	0	96.6	70-125	0			
trans-1,2-Dichloroethene	1069	30	1000	0	107	65-135	0			
trans-1,3-Dichloropropene	939	30	1000	0	93.9	65-125	0			

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

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

Trichloroethene	986.5	30	1000	0	98.6	75-125	0
Trichlorofluoromethane	1108	30	1000	0	111	25-185	0
Vinyl chloride	1149	30	1000	0	115	60-125	0
Xylenes, Total	2970	90	3000	0	99	75-125	0
Surr: 1,2-Dichloroethane-d4	*993*	0	*1000*	0	*99.3*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1016*	0	*1000*	0	*102*	*70-130*	0
Surr: Dibromofluoromethane	*957*	0	*1000*	0	*95.7*	*70-130*	0
Surr: Toluene-d8	*980.5*	0	*1000*	0	*98*	*70-130*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

MSD Sample ID: **14031107-17A MSD** Units: **µg/Kg** Analysis Date: **3/26/2014 11:20 PM**

Client ID: **SB-7 (4-5)** Run ID: **VMS5_140326A** SeqNo: **2686736** Prep Date: **3/26/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	954.5	30	1000	0	95.4	70-135	989.5	3.6	30	
1,1,2,2-Tetrachloroethane	983	30	1000	0	98.3	55-130	935	5.01	30	
1,1,2-Trichloroethane	973.5	30	1000	0	97.4	60-125	980	0.665	30	
1,1-Dichloroethane	982.5	30	1000	0	98.2	75-125	1016	3.4	30	
1,1-Dichloroethene	1040	30	1000	0	104	65-135	1114	6.96	30	
1,2,4-Trichlorobenzene	1019	30	1000	0	102	65-130	934.5	8.65	30	
1,2-Dibromo-3-chloropropane	744	30	1000	0	74.4	40-135	672	10.2	30	
1,2-Dibromoethane	1096	30	1000	0	110	75-125	1092	0.32	30	
1,2-Dichlorobenzene	996.5	30	1000	0	99.6	75-120	948	4.99	30	
1,2-Dichloroethane	975.5	30	1000	0	97.6	70-135	984	0.868	30	
1,2-Dichloropropane	949.5	30	1000	0	95	70-120	967	1.83	30	
1,3-Dichlorobenzene	1010	30	1000	0	101	70-125	962	4.87	30	
1,4-Dichlorobenzene	966	30	1000	0	96.6	70-125	937	3.05	30	
2-Butanone	1282	200	1000	0	128	30-160	1208	5.9	30	
2-Hexanone	1108	30	1000	0	111	45-145	1082	2.33	30	
4-Methyl-2-pentanone	1447	30	1000	0	145	89-161	1403	3.09	30	
Acetone	1440	100	1000	0	144	20-160	1366	5.24	30	
Benzene	971.5	30	1000	0	97.2	75-125	1008	3.74	30	
Bromodichloromethane	852	30	1000	0	85.2	70-130	875	2.66	30	
Bromoform	617	30	1000	0	61.7	55-135	598.5	3.04	30	
Bromomethane	438	75	1000	0	43.8	30-160	911	70.1	30	R
Carbon disulfide	983.5	30	1000	0	98.4	45-160	1046	6.21	30	
Carbon tetrachloride	839.5	30	1000	0	84	65-135	870	3.57	30	
Chlorobenzene	919.5	30	1000	0	92	75-125	948.5	3.1	30	
Chloroethane	1028	100	1000	0	103	40-155	1116	8.12	30	
Chloroform	946	30	1000	0	94.6	70-125	964.5	1.94	30	
Chloromethane	1034	100	1000	0	103	50-130	1086	4.86	30	
cis-1,2-Dichloroethene	937	30	1000	0	93.7	65-125	974	3.87	30	
cis-1,3-Dichloropropene	962.5	30	1000	0	96.2	70-125	980	1.8	30	
Dibromochloromethane	633.5	30	1000	0	63.4	65-135	633	0.079	30	S
Dichlorodifluoromethane	968.5	30	1000	0	96.8	35-135	1050	8.08	30	
Ethylbenzene	971	30	1000	0	97.1	75-125	992.5	2.19	30	
Isopropylbenzene	1004	30	1000	0	100	75-130	994	0.951	30	
m,p-Xylene	1953	60	2000	0	97.6	80-125	1976	1.17	30	
Methyl tert-butyl ether	1064	30	1000	0	106	75-125	1069	0.422	30	
Methylene chloride	1090	30	1000	0	109	55-145	1110	1.77	30	
o-Xylene	974.5	30	1000	0	97.4	75-125	994.5	2.03	30	
Styrene	1008	30	1000	0	101	75-125	1030	2.11	30	
Tetrachloroethene	937	30	1000	0	93.7	64-140	957.5	2.16	30	
Toluene	927.5	30	1000	0	92.8	70-125	966	4.07	30	
trans-1,2-Dichloroethene	1022	30	1000	0	102	65-135	1069	4.5	30	
trans-1,3-Dichloropropene	927.5	30	1000	0	92.8	65-125	939	1.23	30	

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **56907** Instrument ID **VMS5** Method: **SW8260B**

Trichloroethene	939	30	1000	0	93.9	75-125	986.5	4.93	30
Trichlorofluoromethane	1039	30	1000	0	104	25-185	1108	6.47	30
Vinyl chloride	1092	30	1000	0	109	60-125	1149	5.09	30
Xylenes, Total	2928	90	3000	0	97.6	75-125	2970	1.46	30
Surr: 1,2-Dichloroethane-d4	*983.5*	0	*1000*	0	*98.4*	*70-130*	993	*0.961*	*30*
Surr: 4-Bromofluorobenzene	*1004*	0	*1000*	0	*100*	*70-130*	1016	*1.24*	*30*
Surr: Dibromofluoromethane	*964.5*	0	*1000*	0	*96.4*	*70-130*	957	*0.781*	*30*
Surr: Toluene-d8	*985*	0	*1000*	0	*98.5*	*70-130*	980.5	*0.458*	*30*

The following samples were analyzed in this batch:

14031107-01A	14031107-02A	14031107-03A
14031107-04A	14031107-05A	14031107-06A
14031107-07A	14031107-08A	14031107-09A
14031107-10A	14031107-11A	14031107-12A
14031107-13A	14031107-14A	14031107-15A
14031107-16A	14031107-17A	14031107-18A
14031107-19A		

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-140326-R137748** Units: **µg/Kg** Analysis Date: **3/26/2014 10:35 AM**

Client ID: Run ID: **VMS7_140326A** SeqNo: **2687084** 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	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	1.45	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								

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

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

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					
Surr: 1,2-Dichloroethane-d4	*21.15*	0	*20*	0	*106*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.22*	0	*20*	0	*96.1*	*75-120*	0
Surr: Dibromofluoromethane	*21.49*	0	*20*	0	*107*	*85-115*	0
Surr: Toluene-d8	*19.49*	0	*20*	0	*97.4*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS1-140326-R137748** Units: **µg/Kg** Analysis Date: **3/26/2014 09:33 AM**

Client ID: Run ID: **VMS7_140326A** SeqNo: **2687083** 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	19.62	5.0	20	0	98.1	70-135	0			
1,1,2,2-Tetrachloroethane	21.99	5.0	20	0	110	55-130	0			
1,1,2-Trichloroethane	19.97	5.0	20	0	99.8	60-125	0			
1,1-Dichloroethane	21.4	5.0	20	0	107	75-125	0			
1,1-Dichloroethene	22.4	5.0	20	0	112	65-135	0			
1,2,4-Trichlorobenzene	20.05	5.0	20	0	100	65-130	0			
1,2-Dibromo-3-chloropropane	22.08	5.0	20	0	110	40-135	0			
1,2-Dibromoethane	20.01	5.0	20	0	100	70-125	0			
1,2-Dichlorobenzene	19.74	5.0	20	0	98.7	75-120	0			
1,2-Dichloroethane	20.84	5.0	20	0	104	70-135	0			
1,2-Dichloropropane	20.16	5.0	20	0	101	70-120	0			
1,3-Dichlorobenzene	20.11	5.0	20	0	101	70-125	0			
1,4-Dichlorobenzene	20.02	5.0	20	0	100	70-125	0			
2-Butanone	26.11	10	20	0	131	30-160	0			
2-Hexanone	23.88	5.0	20	0	119	45-145	0			
4-Methyl-2-pentanone	35.36	5.0	20	0	177	114-173	0			S
Acetone	27.47	10	20	0	137	20-160	0			
Benzene	20.55	5.0	20	0	103	75-125	0			
Bromodichloromethane	19.93	5.0	20	0	99.6	70-130	0			
Bromoform	20.86	5.0	20	0	104	55-135	0			
Bromomethane	23.62	10	20	0	118	30-160	0			
Carbon disulfide	24.52	5.0	20	0	123	45-160	0			
Carbon tetrachloride	21.01	5.0	20	0	105	65-135	0			
Chlorobenzene	20.4	5.0	20	0	102	75-125	0			
Chloroethane	20.99	5.0	20	0	105	40-155	0			
Chloroform	19.37	5.0	20	0	96.8	70-125	0			
Chloromethane	19.54	10	20	0	97.7	50-130	0			
cis-1,2-Dichloroethene	21.49	5.0	20	0	107	65-125	0			
cis-1,3-Dichloropropene	20.92	5.0	20	0	105	70-125	0			
Dibromochloromethane	19.63	5.0	20	0	98.2	65-135	0			
Dichlorodifluoromethane	18.17	10	20	0	90.8	35-135	0			
Ethylbenzene	19.73	5.0	20	0	98.6	75-125	0			
Isopropylbenzene	19.78	5.0	20	0	98.9	75-130	0			
m,p-Xylene	38.85	2.5	40	0	97.1	80-125	0			
Methyl tert-butyl ether	24.09	5.0	20	0	120	75-125	0			
Methylene chloride	22.33	5.0	20	0	112	55-140	0			
o-Xylene	20.01	2.5	20	0	100	75-125	0			
Styrene	20.94	5.0	20	0	105	75-125	0			
Tetrachloroethene	18.44	5.0	20	0	92.2	65-140	0			
Toluene	19.45	5.0	20	0	97.2	70-125	0			
trans-1,2-Dichloroethene	22.53	5.0	20	0	113	65-135	0			
trans-1,3-Dichloropropene	21.28	10	20	0	106	65-125	0			

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

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	20.71	5.0	20	0	104	75-125	0
Trichlorofluoromethane	21.54	5.0	20	0	108	25-185	0
Vinyl chloride	21.11	5.0	20	0	106	60-125	0
Xylenes, Total	58.86	5.0	60	0	98.1	75-125	0
Surr: 1,2-Dichloroethane-d4	*21.3*	0	*20*	0	*106*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.15*	0	*20*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*21.35*	0	*20*	0	*107*	*85-115*	0
Surr: Toluene-d8	*19.41*	0	*20*	0	*97*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1403831-13A MS** Units: **µg/Kg** Analysis Date: **3/26/2014 12:46 PM**

Client ID: Run ID: **VMS7_140326A** SeqNo: **2687088** Prep Date: DF: **1.16**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.3	5.8	23.2	0	87.5	70-135	0			
1,1,2,2-Tetrachloroethane	27.19	5.8	23.2	0	117	55-130	0			
1,1,2-Trichloroethane	23.1	5.8	23.2	0	99.6	60-125	0			
1,1-Dichloroethane	23.54	5.8	23.2	0	101	75-125	0			
1,1-Dichloroethene	24.3	5.8	23.2	0	105	65-135	0			
1,2,4-Trichlorobenzene	10.88	5.8	23.2	0	46.9	65-130	0			S
1,2-Dibromo-3-chloropropane	32.11	5.8	23.2	0	138	40-135	0			S
1,2-Dibromoethane	24.24	5.8	23.2	0	104	44-112	0			
1,2-Dichlorobenzene	15.64	5.8	23.2	0	67.4	75-120	0			S
1,2-Dichloroethane	24.35	5.8	23.2	0	105	70-135	0			
1,2-Dichloropropane	22.14	5.8	23.2	0	95.4	70-120	0			
1,3-Dichlorobenzene	15.2	5.8	23.2	0	65.5	70-125	0			S
1,4-Dichlorobenzene	15.21	5.8	23.2	0	65.6	70-125	0			S
2-Butanone	60.68	12	23.2	10.2	218	30-160	0			S
2-Hexanone	42.84	5.8	23.2	0	185	45-145	0			S
4-Methyl-2-pentanone	59.88	5.8	23.2	0	258	52-180	0			S
Acetone	132	12	23.2	51.98	345	20-160	0			SE
Benzene	22.39	5.8	23.2	0.3241	95.1	75-125	0			
Bromodichloromethane	20.85	5.8	23.2	0	89.8	70-130	0			
Bromoform	23.07	5.8	23.2	0	99.4	55-135	0			
Bromomethane	24.82	12	23.2	0	107	30-160	0			
Carbon disulfide	24.79	5.8	23.2	0	107	45-160	0			
Carbon tetrachloride	20.57	5.8	23.2	0	88.6	65-135	0			
Chlorobenzene	19.11	5.8	23.2	0	82.4	75-125	0			
Chloroethane	15.35	5.8	23.2	0	66.2	40-155	0			
Chloroform	21.31	5.8	23.2	0	91.8	70-125	0			
Chloromethane	23.39	12	23.2	2.337	90.7	50-130	0			
cis-1,2-Dichloroethene	23.71	5.8	23.2	0	102	65-125	0			
cis-1,3-Dichloropropene	22.56	5.8	23.2	0	97.2	70-125	0			
Dibromochloromethane	20.39	5.8	23.2	0	87.9	65-135	0			
Dichlorodifluoromethane	19.29	12	23.2	0	83.2	35-135	0			
Ethylbenzene	18.46	5.8	23.2	0	79.6	75-125	0			
Isopropylbenzene	16.41	5.8	23.2	0	70.8	75-130	0			S
m,p-Xylene	36.37	2.9	46.4	0	78.4	80-125	0			S
Methyl tert-butyl ether	30.23	5.8	23.2	0	130	75-125	0			S
Methylene chloride	24.37	5.8	23.2	0	105	55-140	0			
o-Xylene	18.5	2.9	23.2	0	79.8	75-125	0			
Styrene	19.05	5.8	23.2	0	82.1	75-125	0			
Tetrachloroethene	15.76	5.8	23.2	0	68	65-140	0			
Toluene	19.73	5.8	23.2	0.3241	83.7	70-125	0			
trans-1,2-Dichloroethene	24.6	5.8	23.2	0	106	65-135	0			
trans-1,3-Dichloropropene	22.42	12	23.2	0	96.6	65-125	0			

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

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	20.39	5.8	23.2	0	87.9	75-125	0
Trichlorofluoromethane	22.2	5.8	23.2	0	95.7	25-185	0
Vinyl chloride	23.73	5.8	23.2	0	102	60-125	0
Xylenes, Total	54.87	5.8	69.6	0	78.8	75-125	0
Surr: 1,2-Dichloroethane-d4	*27.67*	0	*23.2*	0	*119*	*70-120*	0
Surr: 4-Bromofluorobenzene	*23.7*	0	*23.2*	0	*102*	*75-120*	0
Surr: Dibromofluoromethane	*24.8*	0	*23.2*	0	*107*	*85-115*	0
Surr: Toluene-d8	*22.26*	0	*23.2*	0	*96*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1403831-13A MSD** Units: **µg/Kg** Analysis Date: **3/26/2014 01:13 PM**

Client ID: Run ID: **VMS7_140326A** SeqNo: **2687089** Prep Date: DF: **1.13**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.81	5.6	22.6	0	74.4	70-135	20.3	18.8	30	
1,1,2,2-Tetrachloroethane	20.25	5.6	22.6	0	89.6	55-130	27.19	29.3	30	
1,1,2-Trichloroethane	17.71	5.6	22.6	0	78.4	60-125	23.1	26.4	30	
1,1-Dichloroethane	19.02	5.6	22.6	0	84.2	75-125	23.54	21.2	30	
1,1-Dichloroethene	19.61	5.6	22.6	0	86.8	65-135	24.3	21.4	30	
1,2,4-Trichlorobenzene	6.498	5.6	22.6	0	28.8	65-130	10.88	50.4	30	SR
1,2-Dibromo-3-chloropropane	23.3	5.6	22.6	0	103	40-135	32.11	31.8	30	R
1,2-Dibromoethane	18.66	5.6	22.6	0	82.6	44-112	24.24	26	30	
1,2-Dichlorobenzene	10.75	5.6	22.6	0	47.6	75-120	15.64	37.1	30	SR
1,2-Dichloroethane	19.71	5.6	22.6	0	87.2	70-135	24.35	21.1	30	
1,2-Dichloropropane	17.75	5.6	22.6	0	78.6	70-120	22.14	22	30	
1,3-Dichlorobenzene	10.4	5.6	22.6	0	46	70-125	15.2	37.5	30	SR
1,4-Dichlorobenzene	10.4	5.6	22.6	0	46	70-125	15.21	37.6	30	SR
2-Butanone	60.84	11	22.6	10.2	224	30-160	60.68	0.263	30	S
2-Hexanone	32.43	5.6	22.6	0	144	45-145	42.84	27.7	30	
4-Methyl-2-pentanone	45.73	5.6	22.6	0	202	52-180	59.88	26.8	30	S
Acetone	199.5	11	22.6	51.98	653	20-160	132	40.8	30	SRE
Benzene	18.17	5.6	22.6	0.3241	79	75-125	22.39	20.8	30	
Bromodichloromethane	16.95	5.6	22.6	0	75	70-130	20.85	20.6	30	
Bromoform	16.97	5.6	22.6	0	75.1	55-135	23.07	30.5	30	R
Bromomethane	22.88	11	22.6	0	101	30-160	24.82	8.14	30	
Carbon disulfide	19.83	5.6	22.6	0	87.8	45-160	24.79	22.2	30	
Carbon tetrachloride	16.23	5.6	22.6	0	71.8	65-135	20.57	23.6	30	
Chlorobenzene	14.05	5.6	22.6	0	62.2	75-125	19.11	30.5	30	SR
Chloroethane	15.91	5.6	22.6	0	70.4	40-155	15.35	3.61	30	
Chloroform	17.47	5.6	22.6	0	77.3	70-125	21.31	19.8	30	
Chloromethane	21.27	11	22.6	2.337	83.8	50-130	23.39	9.49	30	
cis-1,2-Dichloroethene	18.48	5.6	22.6	0	81.8	65-125	23.71	24.8	30	
cis-1,3-Dichloropropene	17.74	5.6	22.6	0	78.5	70-125	22.56	23.9	30	
Dibromochloromethane	16.08	5.6	22.6	0	71.2	65-135	20.39	23.7	30	
Dichlorodifluoromethane	15.64	11	22.6	0	69.2	35-135	19.29	20.9	30	
Ethylbenzene	13.48	5.6	22.6	0	59.6	75-125	18.46	31.2	30	SR
Isopropylbenzene	10.72	5.6	22.6	0	47.4	75-130	16.41	41.9	30	SR
m,p-Xylene	26.37	2.8	45.2	0	58.4	80-125	36.37	31.9	30	SR
Methyl tert-butyl ether	23.76	5.6	22.6	0	105	75-125	30.23	23.9	30	
Methylene chloride	19.28	5.6	22.6	0	85.3	55-140	24.37	23.3	30	
o-Xylene	13.56	2.8	22.6	0	60	75-125	18.5	30.8	30	SR
Styrene	14.11	5.6	22.6	0	62.4	75-125	19.05	29.8	30	S
Tetrachloroethene	11.49	5.6	22.6	0	50.8	65-140	15.76	31.3	30	SR
Toluene	15.61	5.6	22.6	0.3241	67.6	70-125	19.73	23.4	30	S
trans-1,2-Dichloroethene	19.38	5.6	22.6	0	85.8	65-135	24.6	23.8	30	
trans-1,3-Dichloropropene	17.72	11	22.6	0	78.4	65-125	22.42	23.4	30	

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137748** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	16.93	5.6	22.6	0	74.9	75-125	20.39	18.6	30	S
Trichlorofluoromethane	18.36	5.6	22.6	0	81.2	25-185	22.2	18.9	30	
Vinyl chloride	18.64	5.6	22.6	0	82.5	60-125	23.73	24	30	
Xylenes, Total	39.93	5.6	67.8	0	58.9	75-125	54.87	31.5	30	SR
Surr: 1,2-Dichloroethane-d4	*27.17*	0	*22.6*	0	*120*	*70-120*	27.67	*1.83*	*30*	*S*
Surr: 4-Bromofluorobenzene	*23.01*	0	*22.6*	0	*102*	*75-120*	23.7	*2.96*	*30*	
Surr: Dibromofluoromethane	*24.74*	0	*22.6*	0	*109*	*85-115*	24.8	*0.263*	*30*	
Surr: Toluene-d8	*21.58*	0	*22.6*	0	*95.5*	*85-120*	22.26	*3.09*	*30*	

The following samples were analyzed in this batch:

14031107-01A	14031107-02A	14031107-03A
14031107-04A	14031107-19A	

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137906** Instrument ID **VMS7** Method: **SW8260**

MBLK	Sample ID: **VBLKS1-140328-R137906**	Units: **µg/Kg**	Analysis Date: **3/28/2014 10:33 AM**
Client ID:	Run ID: **VMS7_140328A**	SeqNo: **2691201** 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	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.

QC BATCH REPORT

Batch ID: **R137906** Instrument ID **VMS7** Method: **SW8260**

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					
Surr: 1,2-Dichloroethane-d4	*21.31*	0	*20*	0	*107*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.2*	0	*20*	0	*96*	*75-120*	0
Surr: Dibromofluoromethane	*21.06*	0	*20*	0	*105*	*85-115*	0
Surr: Toluene-d8	*19.36*	0	*20*	0	*96.8*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137906** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS1-140328-R137906** Units: **µg/Kg** Analysis Date: **3/28/2014 09:29 AM**

Client ID: Run ID: **VMS7_140328A** SeqNo: **2691200** 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	20.58	5.0	20	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	21.13	5.0	20	0	106	55-130	0			
1,1,2-Trichloroethane	21.1	5.0	20	0	106	60-125	0			
1,1-Dichloroethane	23.37	5.0	20	0	117	75-125	0			
1,1-Dichloroethene	24.71	5.0	20	0	124	65-135	0			
1,2,4-Trichlorobenzene	21.04	5.0	20	0	105	65-130	0			
1,2-Dibromo-3-chloropropane	22.57	5.0	20	0	113	40-135	0			
1,2-Dibromoethane	20.68	5.0	20	0	103	70-125	0			
1,2-Dichlorobenzene	20.59	5.0	20	0	103	75-120	0			
1,2-Dichloroethane	21.11	5.0	20	0	106	70-135	0			
1,2-Dichloropropane	21.02	5.0	20	0	105	70-120	0			
1,3-Dichlorobenzene	21.22	5.0	20	0	106	70-125	0			
1,4-Dichlorobenzene	20.73	5.0	20	0	104	70-125	0			
2-Butanone	26.97	10	20	0	135	30-160	0			
2-Hexanone	21.49	5.0	20	0	107	45-145	0			
4-Methyl-2-pentanone	33.26	5.0	20	0	166	114-173	0			
Acetone	24.34	10	20	0	122	20-160	0			
Benzene	21.22	5.0	20	0	106	75-125	0			
Bromodichloromethane	20.31	5.0	20	0	102	70-130	0			
Bromoform	20.87	5.0	20	0	104	55-135	0			
Bromomethane	28.5	10	20	0	142	30-160	0			
Carbon disulfide	26.92	5.0	20	0	135	45-160	0			
Carbon tetrachloride	21.94	5.0	20	0	110	65-135	0			
Chlorobenzene	20.68	5.0	20	0	103	75-125	0			
Chloroethane	21.97	5.0	20	0	110	40-155	0			
Chloroform	21.33	5.0	20	0	107	70-125	0			
Chloromethane	21.6	10	20	0	108	50-130	0			
cis-1,2-Dichloroethene	23.61	5.0	20	0	118	65-125	0			
cis-1,3-Dichloropropene	21.83	5.0	20	0	109	70-125	0			
Dibromochloromethane	20.22	5.0	20	0	101	65-135	0			
Dichlorodifluoromethane	20.13	10	20	0	101	35-135	0			
Ethylbenzene	19.71	5.0	20	0	98.6	75-125	0			
Isopropylbenzene	21.25	5.0	20	0	106	75-130	0			
m,p-Xylene	38.56	2.5	40	0	96.4	80-125	0			
Methyl tert-butyl ether	25.6	5.0	20	0	128	75-125	0			S
Methylene chloride	23.34	5.0	20	0	117	55-140	0			
o-Xylene	21.24	2.5	20	0	106	75-125	0			
Styrene	20.46	5.0	20	0	102	75-125	0			
Tetrachloroethene	18.85	5.0	20	0	94.2	65-140	0			
Toluene	19.81	5.0	20	0	99	70-125	0			
trans-1,2-Dichloroethene	24.56	5.0	20	0	123	65-135	0			
trans-1,3-Dichloropropene	21.74	10	20	0	109	65-125	0			

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

QC BATCH REPORT

Batch ID: **R137906** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	21.47	5.0	20	0	107	75-125	0
Trichlorofluoromethane	23.7	5.0	20	0	118	25-185	0
Vinyl chloride	23.34	5.0	20	0	117	60-125	0
Xylenes, Total	59.8	5.0	60	0	99.7	75-125	0
Surr: 1,2-Dichloroethane-d4	*21.96*	0	*20*	0	*110*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.06*	0	*20*	0	*100*	*75-120*	0
Surr: Dibromofluoromethane	*21.89*	0	*20*	0	*109*	*85-115*	0
Surr: Toluene-d8	*19.18*	0	*20*	0	*95.9*	*85-120*	0

The following samples were analyzed in this batch:

14031107-05A	14031107-08A	14031107-10A
14031107-11A	14031107-12A	14031107-13A
14031107-14A	14031107-15A	14031107-17A
14031107-18A		

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-140331-R138030** Units: **µg/Kg** Analysis Date: **3/31/2014 11:12 AM**

Client ID: Run ID: **VMS7_140331A** SeqNo: **2693377** 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	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	1.91	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								

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

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

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					
Surr: 1,2-Dichloroethane-d4	*20.13*	0	*20*	0	*101*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.33*	0	*20*	0	*96.6*	*75-120*	0
Surr: Dibromofluoromethane	*19.97*	0	*20*	0	*99.8*	*85-115*	0
Surr: Toluene-d8	*19.37*	0	*20*	0	*96.8*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS1-140331-R138030** Units: **µg/Kg** Analysis Date: **3/31/2014 10:01 AM**

Client ID: Run ID: **VMS7_140331A** SeqNo: **2693376** 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	19.39	5.0	20	0	97	70-135	0			
1,1,2,2-Tetrachloroethane	20.1	5.0	20	0	100	55-130	0			
1,1,2-Trichloroethane	18.97	5.0	20	0	94.8	60-125	0			
1,1-Dichloroethane	20.12	5.0	20	0	101	75-125	0			
1,1-Dichloroethene	20.83	5.0	20	0	104	65-135	0			
1,2,4-Trichlorobenzene	19.27	5.0	20	0	96.4	65-130	0			
1,2-Dibromo-3-chloropropane	21.81	5.0	20	0	109	40-135	0			
1,2-Dibromoethane	19.09	5.0	20	0	95.4	70-125	0			
1,2-Dichlorobenzene	18.85	5.0	20	0	94.2	75-120	0			
1,2-Dichloroethane	19.68	5.0	20	0	98.4	70-135	0			
1,2-Dichloropropane	19.37	5.0	20	0	96.8	70-120	0			
1,3-Dichlorobenzene	18.92	5.0	20	0	94.6	70-125	0			
1,4-Dichlorobenzene	18.91	5.0	20	0	94.6	70-125	0			
2-Butanone	24.13	10	20	0	121	30-160	0			
2-Hexanone	21.71	5.0	20	0	109	45-145	0			
4-Methyl-2-pentanone	32.15	5.0	20	0	161	114-173	0			
Acetone	22.82	10	20	0	114	20-160	0			
Benzene	19.78	5.0	20	0	98.9	75-125	0			
Bromodichloromethane	19.02	5.0	20	0	95.1	70-130	0			
Bromoform	20.02	5.0	20	0	100	55-135	0			
Bromomethane	23.94	10	20	0	120	30-160	0			
Carbon disulfide	22.32	5.0	20	0	112	45-160	0			
Carbon tetrachloride	20.23	5.0	20	0	101	65-135	0			
Chlorobenzene	18.82	5.0	20	0	94.1	75-125	0			
Chloroethane	16.31	5.0	20	0	81.6	40-155	0			
Chloroform	18.84	5.0	20	0	94.2	70-125	0			
Chloromethane	17.16	10	20	0	85.8	50-130	0			
cis-1,2-Dichloroethene	20.66	5.0	20	0	103	65-125	0			
cis-1,3-Dichloropropene	20.23	5.0	20	0	101	70-125	0			
Dibromochloromethane	18.81	5.0	20	0	94	65-135	0			
Dichlorodifluoromethane	13.68	10	20	0	68.4	35-135	0			
Ethylbenzene	18.71	5.0	20	0	93.6	75-125	0			
Isopropylbenzene	19.05	5.0	20	0	95.2	75-130	0			
m,p-Xylene	37.84	2.5	40	0	94.6	80-125	0			
Methyl tert-butyl ether	22.73	5.0	20	0	114	75-125	0			
Methylene chloride	21.27	5.0	20	0	106	55-140	0			
o-Xylene	18.6	2.5	20	0	93	75-125	0			
Styrene	19.87	5.0	20	0	99.4	75-125	0			
Tetrachloroethene	17.11	5.0	20	0	85.6	65-140	0			
Toluene	18.22	5.0	20	0	91.1	70-125	0			
trans-1,2-Dichloroethene	21.45	5.0	20	0	107	65-135	0			
trans-1,3-Dichloropropene	19.91	10	20	0	99.6	65-125	0			

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

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	19.77	5.0	20	0	98.8	75-125	0
Trichlorofluoromethane	19.61	5.0	20	0	98	25-185	0
Vinyl chloride	18.29	5.0	20	0	91.4	60-125	0
Xylenes, Total	56.44	5.0	60	0	94.1	75-125	0
Surr: 1,2-Dichloroethane-d4	*20.25*	0	*20*	0	*101*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.04*	0	*20*	0	*100*	*75-120*	0
Surr: Dibromofluoromethane	*20.34*	0	*20*	0	*102*	*85-115*	0
Surr: Toluene-d8	*19.21*	0	*20*	0	*96*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **14031230-02A MS** Units: **µg/Kg** Analysis Date: **3/31/2014 01:20 PM**

Client ID: Run ID: **VMS7_140331A** SeqNo: **2693382** Prep Date: DF: **0.868**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.02	4.3	17.36	4.725	59.3	70-135	0			S
1,1,2,2-Tetrachloroethane	14.75	4.3	17.36	0	85	55-130	0			
1,1,2-Trichloroethane	13.81	4.3	17.36	0	79.6	60-125	0			
1,1-Dichloroethane	15.97	4.3	17.36	0	92	75-125	0			
1,1-Dichloroethene	16.72	4.3	17.36	0	96.3	65-135	0			
1,2,4-Trichlorobenzene	10.36	4.3	17.36	0	59.7	65-130	0			S
1,2-Dibromo-3-chloropropane	14.34	4.3	17.36	0	82.6	40-135	0			
1,2-Dibromoethane	14.34	4.3	17.36	0	82.6	44-112	0			
1,2-Dichlorobenzene	12.42	4.3	17.36	0	71.6	75-120	0			S
1,2-Dichloroethane	15.61	4.3	17.36	0	89.9	70-135	0			
1,2-Dichloropropane	14.82	4.3	17.36	0	85.4	70-120	0			
1,3-Dichlorobenzene	12.17	4.3	17.36	0	70.1	70-125	0			
1,4-Dichlorobenzene	12.11	4.3	17.36	0	69.8	70-125	0			S
2-Butanone	34.45	8.7	17.36	2.467	184	30-160	0			S
2-Hexanone	24.14	4.3	17.36	0	139	45-145	0			
4-Methyl-2-pentanone	25.69	4.3	17.36	0	148	52-180	0			
Acetone	53.15	8.7	17.36	6.717	267	20-160	0			S
Benzene	15.19	4.3	17.36	0.4607	84.8	75-125	0			
Bromodichloromethane	14.46	4.3	17.36	0	83.3	70-130	0			
Bromoform	14.36	4.3	17.36	0	82.7	55-135	0			
Bromomethane	18.23	8.7	17.36	0	105	30-160	0			
Carbon disulfide	17.44	4.3	17.36	0	100	45-160	0			
Carbon tetrachloride	15.1	4.3	17.36	0	87	65-135	0			
Chlorobenzene	13.32	4.3	17.36	0	76.7	75-125	0			
Chloroethane	14.71	4.3	17.36	0	84.8	40-155	0			
Chloroform	15.09	4.3	17.36	0	86.9	70-125	0			
Chloromethane	13.55	8.7	17.36	0	78	50-130	0			
cis-1,2-Dichloroethene	16.17	4.3	17.36	0	93.2	65-125	0			
cis-1,3-Dichloropropene	15.24	4.3	17.36	0	87.8	70-125	0			
Dibromochloromethane	13.5	4.3	17.36	0	77.8	65-135	0			
Dichlorodifluoromethane	11.61	8.7	17.36	0	66.8	35-135	0			
Ethylbenzene	13.69	4.3	17.36	0.1932	77.7	75-125	0			
Isopropylbenzene	14.12	4.3	17.36	0	81.4	75-130	0			
m,p-Xylene	28.55	2.2	34.72	0.2898	81.4	80-125	0			
Methyl tert-butyl ether	18.19	4.3	17.36	0	105	75-125	0			
Methylene chloride	17.85	4.3	17.36	0	103	55-140	0			
o-Xylene	14.07	2.2	17.36	0	81	75-125	0			
Styrene	14.09	4.3	17.36	0	81.2	75-125	0			
Tetrachloroethene	15.16	4.3	17.36	0	87.4	65-140	0			
Toluene	14.1	4.3	17.36	0.6613	77.4	70-125	0			
trans-1,2-Dichloroethene	16.87	4.3	17.36	0	97.2	65-135	0			
trans-1,3-Dichloropropene	14.64	8.7	17.36	0	84.4	65-125	0			

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

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	15.53	4.3	17.36	0	89.4	75-125	0
Trichlorofluoromethane	15.81	4.3	17.36	0	91.1	25-185	0
Vinyl chloride	14.94	4.3	17.36	0	86	60-125	0
Xylenes, Total	42.62	4.3	52.08	0.2898	81.3	75-125	0
Surr: 1,2-Dichloroethane-d4	*18.88*	0	*17.36*	0	*109*	*70-120*	0
Surr: 4-Bromofluorobenzene	*17.65*	0	*17.36*	0	*102*	*75-120*	0
Surr: Dibromofluoromethane	*17.81*	0	*17.36*	0	*103*	*85-115*	0
Surr: Toluene-d8	*16.54*	0	*17.36*	0	*95.2*	*85-120*	0

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **14031230-02A MSD** Units: **µg/Kg** Analysis Date: **3/31/2014 01:45 PM**

Client ID: Run ID: **VMS7_140331A** SeqNo: **2693383** Prep Date: DF: **0.856**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.2	4.3	17.12	4.725	61.2	70-135	15.02	1.23	30	S
1,1,2,2-Tetrachloroethane	14.31	4.3	17.12	0	83.6	55-130	14.75	2.99	30	
1,1,2-Trichloroethane	14.51	4.3	17.12	0	84.8	60-125	13.81	4.94	30	
1,1-Dichloroethane	16.15	4.3	17.12	0	94.4	75-125	15.97	1.13	30	
1,1-Dichloroethene	16.69	4.3	17.12	0	97.5	65-135	16.72	0.154	30	
1,2,4-Trichlorobenzene	10.19	4.3	17.12	0	59.5	65-130	10.36	1.73	30	S
1,2-Dibromo-3-chloropropane	15	4.3	17.12	0	87.6	40-135	14.34	4.48	30	
1,2-Dibromoethane	14.36	4.3	17.12	0	83.8	44-112	14.34	0.11	30	
1,2-Dichlorobenzene	11.95	4.3	17.12	0	69.8	75-120	12.42	3.87	30	S
1,2-Dichloroethane	15.84	4.3	17.12	0	92.5	70-135	15.61	1.46	30	
1,2-Dichloropropane	15.31	4.3	17.12	0	89.4	70-120	14.82	3.24	30	
1,3-Dichlorobenzene	11.98	4.3	17.12	0	70	70-125	12.17	1.61	30	S
1,4-Dichlorobenzene	12.04	4.3	17.12	0	70.3	70-125	12.11	0.607	30	
2-Butanone	33.16	8.6	17.12	2.467	179	30-160	34.45	3.81	30	S
2-Hexanone	24.94	4.3	17.12	0	146	45-145	24.14	3.28	30	S
4-Methyl-2-pentanone	25.46	4.3	17.12	0	149	52-180	25.69	0.92	30	
Acetone	53.67	8.6	17.12	6.717	274	20-160	53.15	0.98	30	S
Benzene	15.68	4.3	17.12	0.4607	88.9	75-125	15.19	3.19	30	
Bromodichloromethane	14.62	4.3	17.12	0	85.4	70-130	14.46	1.1	30	
Bromoform	13.77	4.3	17.12	0	80.4	55-135	14.36	4.15	30	
Bromomethane	18.58	8.6	17.12	0	109	30-160	18.23	1.93	30	
Carbon disulfide	17.29	4.3	17.12	0	101	45-160	17.44	0.846	30	
Carbon tetrachloride	15.14	4.3	17.12	0	88.4	65-135	15.1	0.261	30	
Chlorobenzene	13.4	4.3	17.12	0	78.2	75-125	13.32	0.609	30	
Chloroethane	14.8	4.3	17.12	0	86.4	40-155	14.71	0.594	30	
Chloroform	15.01	4.3	17.12	0	87.6	70-125	15.09	0.533	30	
Chloromethane	13.58	8.6	17.12	0	79.4	50-130	13.55	0.26	30	
cis-1,2-Dichloroethene	16.29	4.3	17.12	0	95.2	65-125	16.17	0.732	30	
cis-1,3-Dichloropropene	15.25	4.3	17.12	0	89	70-125	15.24	0.0215	30	
Dibromochloromethane	13.76	4.3	17.12	0	80.4	65-135	13.5	1.9	30	
Dichlorodifluoromethane	11.3	8.6	17.12	0	66	35-135	11.61	2.67	30	
Ethylbenzene	13.46	4.3	17.12	0.1932	77.5	75-125	13.69	1.71	30	
Isopropylbenzene	13.38	4.3	17.12	0	78.2	75-130	14.12	5.4	30	
m,p-Xylene	27.49	2.1	34.24	0.2898	79.5	80-125	28.55	3.76	30	S
Methyl tert-butyl ether	17.92	4.3	17.12	0	105	75-125	18.19	1.54	30	
Methylene chloride	17.92	4.3	17.12	0	105	55-140	17.85	0.343	30	
o-Xylene	13.78	2.1	17.12	0	80.5	75-125	14.07	2.07	30	
Styrene	13.84	4.3	17.12	0	80.8	75-125	14.09	1.76	30	
Tetrachloroethene	18.04	4.3	17.12	0	105	65-140	15.16	17.3	30	
Toluene	14.14	4.3	17.12	0.6613	78.7	70-125	14.1	0.256	30	
trans-1,2-Dichloroethene	16.66	4.3	17.12	0	97.3	65-135	16.87	1.29	30	
trans-1,3-Dichloropropene	14.44	8.6	17.12	0	84.4	65-125	14.64	1.39	30	

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R138030** Instrument ID **VMS7** Method: **SW8260**

Trichloroethene	15.75	4.3	17.12	0	92	75-125	15.53	1.42	30
Trichlorofluoromethane	15.77	4.3	17.12	0	92.1	25-185	15.81	0.3	30
Vinyl chloride	15.02	4.3	17.12	0	87.8	60-125	14.94	0.564	30
Xylenes, Total	41.28	4.3	51.36	0.2898	79.8	75-125	42.62	3.2	30
Surr: 1,2-Dichloroethane-d4	*18.54*	0	*17.12*	0	*108*	*70-120*	18.88	*1.81*	*30*
Surr: 4-Bromofluorobenzene	*17.7*	0	*17.12*	0	*103*	*75-120*	17.65	*0.315*	*30*
Surr: Dibromofluoromethane	*17.5*	0	*17.12*	0	*102*	*85-115*	17.81	*1.78*	*30*
Surr: Toluene-d8	*16.31*	0	*17.12*	0	*95.2*	*85-120*	16.54	*1.39*	*30*

The following samples were analyzed in this batch: 14031107-14A

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

Client: Tetra Tech
Work Order: 14031107
Project: Spotless Car Wash March 2014

QC BATCH REPORT

Batch ID: **R137836** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R137836** Units: **% of sample** Analysis Date: **3/26/2014 09:31 AM**
Client ID: Run ID: **MOIST_140326A** SeqNo: **2687241** 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-R137836** Units: **% of sample** Analysis Date: **3/26/2014 09:31 AM**
Client ID: Run ID: **MOIST_140326A** SeqNo: **2687240** 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: **14031119-06A DUP** Units: **% of sample** Analysis Date: **3/26/2014 09:31 AM**
Client ID: Run ID: **MOIST_140326A** SeqNo: **2687237** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.63	0.050	0	0	0	0-0	4.37	5.78	20	

DUP Sample ID: **14031119-07A DUP** Units: **% of sample** Analysis Date: **3/26/2014 09:31 AM**
Client ID: Run ID: **MOIST_140326A** SeqNo: **2687239** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	5.76	0.050	0	0	0	0-0	5.6	2.82	20	

The following samples were analyzed in this batch:

14031107-01B	14031107-02B	14031107-03B
14031107-04B	14031107-05B	14031107-06B
14031107-07B	14031107-08B	14031107-09B
14031107-10B	14031107-11B	14031107-12B
14031107-13B	14031107-14B	14031107-15B
14031107-16B	14031107-17B	14031107-18B

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

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Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 105786

ALS Project Manager:

ALS Work Order #: 14031107

Customer Information		Project Information		Parameter/Method Request for Analysis	
ase Order		Project Name	Spotless Car Wash, St. Louis, MO	A	TCL Volatiles with GRO (C6-C10)
ork Order		Project Number	103X9025140002.017	B	PAHs with DRO (C10-C28)
any Name	Tetra Tech	Bill To Company	Tetra Tech	C	Lead
Report To	Christina Engemann	Invoice Attn	Emily Fisher	D	DRO (C10-C28), no PAHs
Address	14721 Duden Hills Rd	Address	415 Oak Street	E	% Moisture
				F	
State/Zip	Marthasville, MO 63357	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
il Address	christina.engemann@tetratech.com	e-Mail Address	emily.fisher@tetratech.com	J	

Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
Tank 5 Floor	3-20-14	11:28	Soil	8.9	7	X	X	X		X						
Tank 6 Floor	3-20-14	11:42	"		7											
Tank 8 Floor	3-20-14	13:35	"		7											
Tank 7 Floor	3-20-14	13:~~40~~ 50	"		7											
Tank 6-7 North Wall	3-20-14	14:05	"		7											
Tank 4 Floor	3-21-14	8:18	"		7											
Tank 3 Floor	3-21-14	8:44	"		7											
Tank 2 Floor	3-21-14	8:53	"		7											
Tank 1 Floor	3-21-14	9:05	"		7											
West Tank Pit Wall	3-21-14	9:20	"		7											

r(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
tina Engemann Christina Engemann	FedEx	☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other	

	Date:	Time:		
shed by: Christina Engemann	3-24-14	1900	Received by: FED EX	
shed by: FED EX	3/25/14	1000	Received by (Laboratory):	
by (Laboratory): DFS	3/25/14	1445	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.
	3.8°C
	4.8°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Check List
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

vative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

Page 2 of 2

COC ID: 105785

Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
chase Order		Project Name	Spotless Car Wash, St. Louis, MO	A	TCL Volatiles with GRO (C6-C10)
Work Order		Project Number	103X9025140002.017	B	PAHs with DRO (C10-C28)
pany Name	Tetra Tech	Bill To Company	Tetra Tech	C	Lead
d Report To	Christina Engemann	Invoice Attn	Emily Fisher	D	DRO (C10-C28), no PAHs
Address	14721 Duden Hills Rd	Address	415 Oak Street	E	% Moisture
				F	
y/State/Zip	Marthasville, MO 63357	City/State/Zip	Kansas City, MO 64106	G	
Phone	(816) 412-1755	Phone	(816) 412-1755	H	
Fax	(816) 410-1748	Fax	(816) 410-1748	I	
ail Address	christina.engemann@tetratech.com	e-Mail Address	emily.fisher@tetratech.com	J	

Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
SB-1 (14-16)	3-24-14	1304	So:1	8,9	7	X	X	X		X						
SB-2 (4-6)	3-24-14	1329			7											
SB-3 (14-16)	3-24-14	1403			7											
SB-4 (3-4)	3-24-14	1432			7											
SB-5 (3-4)	3-24-14	1441			7											
SB-6 (1-3)	3-24-14	1449			7											
SB-7 (4-5)	3-24-14	1534			7											
SB-8 (14-16)	3-24-14	1603			7											
Trip Blank				X	4	X										

END OF JOB 3-24-14 CAG

ler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
stina Engemann Christina Engemann	FedEx	☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour	

quished by:	Date:	Time:	Received by:	Notes:
Christina Engemann	3-24-14	1900	FED EX	
quished by: FED EX	3/25/14	1000	Received by (Laboratory):	
d by (Laboratory): DES	3/25/14	1445	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
	3.8°C
	4.8°C

QC Package: (Check One Box Below)
- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP CheckList
- ☐ TRRP Level IV

ervative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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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: **25-Mar-14 10:00**

Work Order: **14031107** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 25-Mar-14 (Date) Reviewed by: Ann Preston (eSignature) 26-Mar-14 (Date)

Matrices: Soil

Carrier name: FedEx

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	
Sample(s) received on ice?	☑	☐	

Temperature(s)/Thermometer(s): 3.8 c, 4.8 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 3/25/2014 4:02:00 PM

	Yes	No		
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted	☑
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: -

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 3-24-14 Time: 1830
Name: Christina Engelman
Company: Tetra Tech

Seal Broken By:

Date:

3.8°C

From: (636) 326-6772
Christina Engemann
Tetra Tech
806 Horan Drive

Fenton, MO 63026

Origin ID: SUSA

FedEx Express

J14101402070326

Ship Date: 24MAR14
ActWgt: 25.0 LB
CAD: 102353506/INET3490

Delivery Address Bar Code

Ref # 103X9025140002.017
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070 BILL SENDER

SAMPLE RECEIVING
ALS GROUP USA, CORP
3352 128TH AVENUE

HOLLAND, MI 49424

1 of 4

TUE - 25 MAR AA
STANDARD OVERNIGHT

TRK# 7983 2131 6105
0201
MASTER

NA GRRA

49424
MI-US
GRR

522G1/CC4F/F220

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3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 3-24-14 Time: 1830
Name: Christina Engemann
Company: Tetra Tech

Seal Broken By:
Date:

From: (636) 326-6772
Christina Engemann
Tetra Tech
806 Horan Drive

Fenton, MO 63026

Origin ID: SUSA

FedEx Express

J14101402070326

Ship Date: 24MAR14
ActWgt: 25.0 LB
CAD: 102353506/INET3490

Delivery Address Bar Code

Ref # 103X9025140002.017
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070 BILL SENDER

SAMPLE RECEIVING
ALS GROUP USA, CORP
3352 128TH AVENUE

HOLLAND, MI 49424

2 of 4

TUE - 25 MAR AA
STANDARD OVERNIGHT

MPS# 7983 2131 5738
0263
Mstr# 7983 2131 6105 0201

NA GRRA

49424
MI-US
GRR

522G1/CC4F/F220

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2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Re: QuanTEM ID 233187

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	S-PLSC-1	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Paint
001a		Layered	Brown Plaster	Asbestos Not Present	NA	Sand Gypsum
002	S-PLSC-2	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3
002a		Layered	Gray Plaster	Asbestos Not Present	NA	Sand CaCO3
002b		Layered	Brown Plaster	Asbestos Not Present	NA	Sand Gypsum
003	S-PLSC-3	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Paint
003a		Layered	Gray Plaster	Asbestos Not Present	NA	Sand CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
003b		Layered	Brown Plaster	Asbestos Not Present	NA	Sand Gypsum
004	S-FT-1	Layered	Gray Floor Tile	Asbestos Present Chrysotile 3	NA	Vinyl CaCO3
004a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
005	S-FT-2	Layered	Gray Floor Tile	Asbestos Present Chrysotile 3	NA	Vinyl CaCO3
005a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
006	S-FT-3	Layered	Gray Floor Tile	Asbestos Present Chrysotile 3	NA	Vinyl CaCO3
006a		Layered	Black Mastic	Asbestos Not Present	NA	Tar

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
007	S-FT2-1	Layered	Gray Floor Tile	Asbestos Present Chrysotile 2	NA	Vinyl CaCO3 Talc
007a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
008	S-FT2-2	Layered	Gray Floor Tile	Asbestos Present Chrysotile 3	NA	Vinyl CaCO3
008a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
009	S-FT2-3	Layered	Gray Floor Tile	Asbestos Present Chrysotile 3	NA	Vinyl CaCO3
009a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
010	S-WG-1	Homogeneous	White Window Glazing	Asbestos Not Present	Wollastonite 2	CaCO3 Talc

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
011	S-WG-2	Homogeneous	White Window Glazing	Asbestos Not Present	Wollastonite	2	CaCO3 Talc
012	S-WG-3	Homogeneous	White Window Glazing	Asbestos Not Present	Wollastonite	2	CaCO3 Talc
013	S-RM-1	Layered	Black Roofing	Asbestos Not Present	Glass Fiber	5	Tar
013a		Layered	Black Roofing	Asbestos Not Present	Cellulose Synthetic	5 <1	Tar
014	S-RM-2	Layered	Black Roofing	Asbestos Not Present	Glass Fiber	5	Tar
014a		Layered	Black Roofing	Asbestos Not Present	Cellulose	5	Tar
015	S-RM-3	Layered	Black Roofing	Asbestos Not Present	Glass Fiber	5	Tar

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229
Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
015a		Layered	Black Roofing	Asbestos Not Present	Cellulose	5	Tar
016	S-DW-1	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	2	Gypsum
017	S-DW-2	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	2	Gypsum
018	S-DW-3	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	2	Gypsum
019	S-CTM-1	Layered	Pink Ceramic Tile	Asbestos Not Present	NA		Clay
019a		Layered	Gray Mastic	Asbestos Not Present	NA		CaCO3
020	S-CTM-2	Layered	Pink Ceramic Tile	Asbestos Not Present	NA		Clay

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
020a		Layered	Gray Mastic	Asbestos Not Present	NA		CaCO3
020b		Layered	White Grout	Asbestos Not Present	Wollastonite	4	CaCO3
021	S-CTM-3	Layered	Pink Ceramic Tile	Asbestos Not Present	NA		Clay
021a		Layered	Gray Mastic	Asbestos Not Present	NA		CaCO3
022	S-LIN-1	Homogeneous	Tan Sheet Vinyl	Asbestos Not Present	Cellulose	25	Vinyl
023	S-LIN-2	Homogeneous	Tan Sheet Vinyl	Asbestos Not Present	Cellulose	25	Vinyl
024	S-LIN-3	Homogeneous	Tan Sheet Vinyl	Asbestos Not Present	Cellulose	25	Vinyl

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 233187
Account Number: B229

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Date Received: 03/20/2014
Received By: Joanna Mueller
Date Analyzed: 03/27/2014
Analyzed By: Cristal Veech
Methodology: EPA/600/R-93/116

Project: Spotless Carwash
Project Location: St. Louis, MO
Project Number: 103X9025140002017

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous

Cristal Veech, Analyst

3/27/2014
Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.

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ASBESTOS CHAIN OF CUSTODY

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For Lab Use Only
Lab No. 233187
Accept Reject

Contact Information			
Company:	Tetra Tech, Inc	Phone:	(816) 412-1773
Contact:	Jeffrey Mitchell	Cell Phone:	(913) 269-5304
Account #:		E-mail:	jeffrey.mitchell@tetratech.com
SAMPLED BY: Name:	J. Mitchell	Date:	3/19/14

Project Information	
Project Name:	Spotless Carwash
Project Location:	St. Louis, MO
Project ID:	103X9025140002017
P.O. Number:	103X9025140002017

Report Results (☑ one box)
- ☑ QuanTEM Website
- ☐ Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
[illegible]	3/19/14 12pm	Fed Ex	[illegible]	3/20/14 9:30

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM	PLM	TEM	TEM	TURNAROUND TIME
☑ Bulk Analysis (EPA 600/R-93/116)	☐ Vermiculite Attic Insulation (EPA 600/R-04/004)	☐ Air- AHERA	☐ Bulk- Presence / Absence EPA600/R-93/116	☐ Rush
☐ 400 Point Count	☐ Other	☐ Air- NIOSH 7402	☐ Bulk- Quantitative [weight%]- Chatfield	☐ Same Day
☐ 1000 Point Count	PCM	☐ Air- ISO 10312	☐ Dust- Presence / Absence	☐ 24 - Hour
☐ Gravimetric Preparation	☐ NIOSH 7400	☐ Drinking Water- EPA 100.2	☐ Dust- Quantitative [fibers/sq.cm]- ASTM D5755	☐ 3 - Day
☐ Particle ID		☐ Waste Water- EPA 600/4-83-043	☐ Other	☑ 5 - Day

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	S-PLSK-1	☑	NA	Plaster/Skim coat	NA	
2	-2	☐				
3	-3	☐				
4	S-FT-1	☐		Floor tile/mastic		
5	-2	☐				
6	-3	☐				
7	S-FT2-1	☐				
8	-2	☐				
9	-3	☐				
10	S-WG-1	☑		Window Glaze		

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

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For Lab Use Only
Lab No. 233817
Accept Reject

Project Information

Company: Tetra Tech, Inc | Project Name: Spotless Carwash | Project Location: St. Louis, MO

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	S-WG-2	☑	NA	Window Glaze	NA	
12	-3	☑				
13	S-Rm-1	☑		Roof material		
14	-2	☑				
15	-3	☑				
16	S-DW-1	☑		Drywall		
17	-2	☑				
18	-3	☑				
19	S-CTm-1	☑		Ceramic tile mastic		
20	-2	☑				
21	-3	☑				
22	S-Lin-1	☑		Linoleum		
23	-2	☑				
24	-3	☑				
25		☐				
26		☐		end of JOB		
27		☐				
28		☐				
29		☐				
30		☐				

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Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Re: QuanTEM ID 233201

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.

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Environmental Chemistry Analysis Report

QuanTEM Set ID: 233201
Date Received: 03/20/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 3/26/2014

AIHA ID: 101352

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Acct. No.: B229

Project: Spotless Car Wash
Location: St. Louis, MO
Project No.: 103X9025140002017

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	LBP-1	Paint	Lead	0.00919	0.00492	%	03/26/14 9:20	P EPA 7000B (1)
002	LBP-2	Paint	Lead	0.569	0.00475	%	03/26/14 9:20	P EPA 7000B (1)
003	LBP-3	Paint	Lead	0.0218	0.0051	%	03/26/14 9:20	P EPA 7000B (1)
004	LBP-4	Paint	Lead	<0.00509	0.00509	%	03/26/14 9:20	P EPA 7000B (1)
005	LBP-5	Paint	Lead	0.925	0.00519	%	03/26/14 9:20	P EPA 7000B (1)

Authorized Signature: Carter Cox

Carter Cox, Lab Tech

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report
QAQC Results

QA ID: 11894
Test: Lead

Date: 3/26/2014
Matrix: Paint

Lab Number: 233201
Approved By: Carter Cox
Date Approved: 3/26/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.2	5.5
FCV	4.5	5.2	5.5
ICV	0.9	1.01	1
RLVS	0.08	0.109	0.12

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	1.883	2.074	110.1	2.080	110.5	0.3
233201-001	0.187	2.000	2.288	105.1			

Authorized Signature: Carter Cox

Carter Cox, Lab Tech

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For Lab Use Only	
Lab No. 233201	
(Accept)	Reject

Report Results (☑ one box)	
X	QuanTEM Website
	Other _____

Contact Information	
Company: Tetra Tech, Inc	Phone: 816-412-1773
Contact: Jeffrey Mitchell	Cell Phone: 913-269-5304
Account #:	E-mail: jeffrey.mitchell@tetratech.com

Project Information	
Project Name:	Spotless Carwash
Project Location:	St. Louis, Mo
Project ID:	103X9025140002017

Sampled By:	Name: J. Mitchell	Date: 3/19/14

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
[signature]	3/19/14 12pm	Fed Ex	[signature]	3/20/14 9:30

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis: Pb			Units (☑ ONE box only): PPM	Wt %	mg / l	µg /ft²	µg / m³	mg / cm²
1	LBP-1	Paint Sample	NA	NA	B	X				X				
2	-2	↓	↓	↓	↓	↓				↓				
3	-3													
4	-4													
5	-5													
6														
7														
8		end of Job												
9														
10														
11														
12														

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette

TURNAROUND TIME	
	Same Day
	24 - Hour
	3 - Day
X	5 - Day

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

2012 Asbestos Survey

Date 3/19/14 **Building Name** spotless Car wash **Inspectors** J M.

Photo ☑

ASBESTOS

Sample #	Sample ID	Material	Location	Quantity (SF / LF)
1	S-PLSC-1	PLSC		
2	-2			
3	-3			
4	S-FT-1	FT Lt gray	west side	
5	-2			
6	-3			
7	S-FT2-1	FT2 Dk gray	West side	
8	-2			
9	-3			
10	S-WG-1	WG.	East side	
11	-2			
12	-3			
13	S-RM-1	Roof Material		
14	-2			
15	-3			
16	S-DW-1	Drywall	South Room	
17	-2			
18	-3			

Sample #	Sample ID	Material	Location	Quantity (SF / LF)
19	S-CATM-1	Ceramic	BR	
20	-2	Mastic		
21	-3			
22	S-LIN-1	Linoleum	West Room	
23	-2			
24	-3			

LEAD BASED PAINT

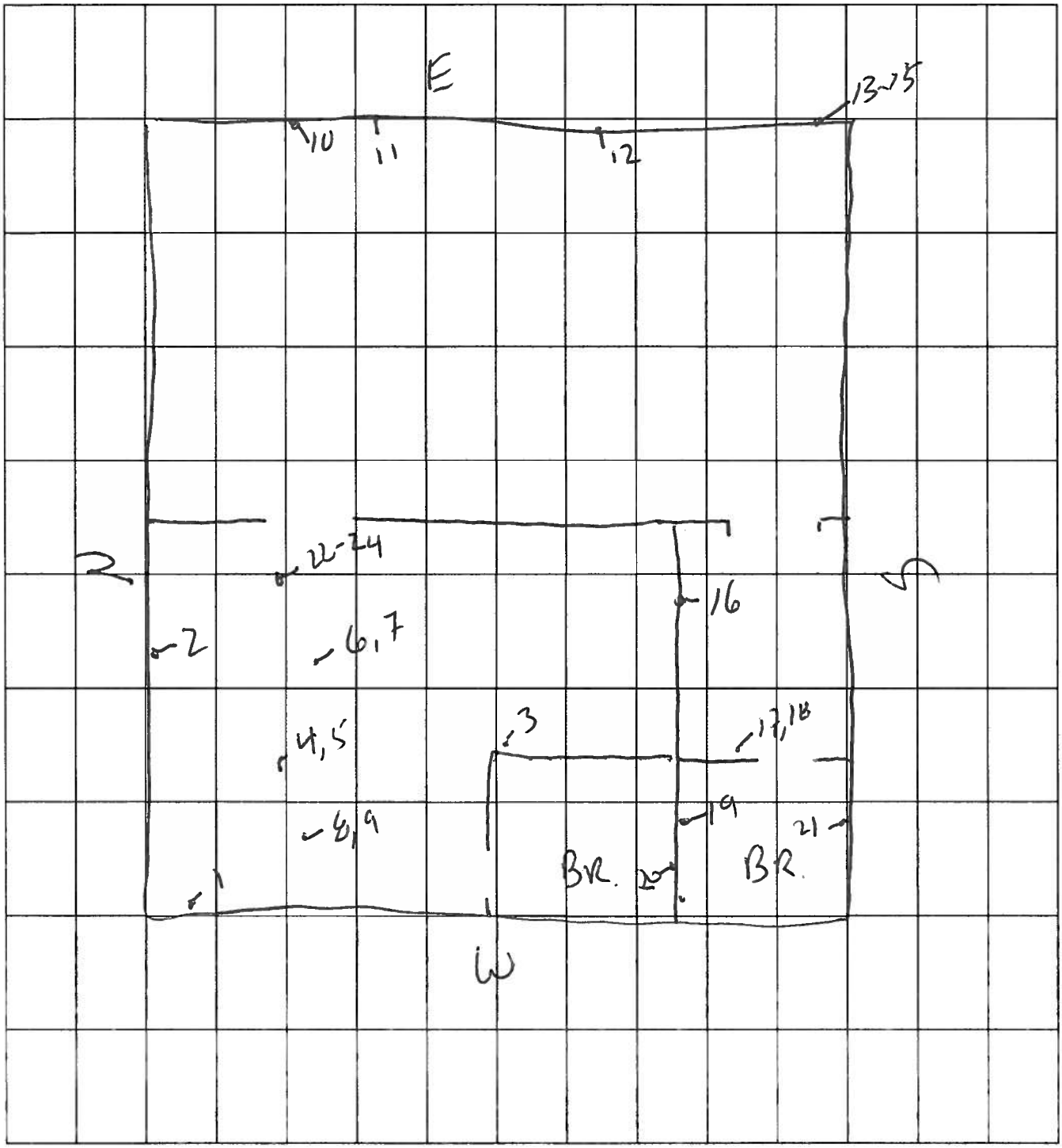
Suspect LBP Survey:

Sample Number	Paint Color	Paint Location	Condition	Material Component/Substrate
LBP-1	White	West side walls	Poor	Wall / Plaster
LBP-2	white	East side walls	Poor	Wall / Brick
LBP-3	white	Ext.	Fair	Wall / metal
LBP-4	"	"	"	Wall / wood
LBP-5	"	Int. Garage Doors	Poor	Wall / wood

~~AMC Theatres~~ Surveys

Date of Inspection 3/19/14 Inspectors JM

Building/Store Spotless Carwash



APPENDIX E

TABLES

TABLE E-1

SUMMARY OF ANALYTICAL RESULTS IN SUBSURFACE SOIL SAMPLES FROM TANK PITS
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Detected Analyte	Subsurface Soil Tier 1 RBTL[1]		Construction-Depth Soil Tier 1 RBTLs[1]	Lab ID	14031107-09	14031107-08	14031107-07	14031107-06	14031107-10	14031107-01	14031107-02	14031107-04	14031107-03	14031107-05
				Sample ID	**Tank 1 Floor**	**Tank 2 Floor**	**Tank 3 Floor**	**Tank 4 Floor**	**West Tank Pit Wall**	**Tank 5 Floor**	**Tank 6 Floor**	**Tank 7 Floor**	**Tank 8 Floor**	**Tank 6-7 North Wall**
				Depth (ft bgs)	15-16	15-16	15-16	15-16	15-16	12 -13	12 -13	12 -13	12 -13	12 -13
	Residential Land Use	**Non-Residential Land Use[2]**	**Construction Worker Scenario**	**Sample Location**	West Tank Pit	West Tank Pit	West Tank Pit	West Tank Pit	Northwest Corner of West Tank Pit	East Tank Pit	East Tank Pit	East Tank Pit	East Tank Pit	North Wall of East Tank Pit
Volatile Organic Compounds (VOC) Results (mg/kg)														
1,1-Dichloroethane	**0.922**	**4.83**	**3,480**		**2.9**	0.300	**2.3**	**1.4**	0.022	U	U	U	U	U
1,2-Dichloroethane	**NE**		**NE**		0.063	0.0085	0.047	U	U	U	U	U	U	U
Acetone	**1,830**		**208,000**		0.110	0.081	U	U	0.091	0.024	0.033	0.020	0.035	0.027
Benzene	**0.378**	**1.98**	**1,820**		**0.570**	0.077	**0.490**	0.350	0.0015 (J)	U	U	U	U	U
Carbon disulfide	**6.26**		**42,800**		0.044	0.00082 (J)	U	U	0.0018 (J)	U	U	U	U	U
Chloroethane	**0.539**		**55,900**		U	0.0067	U	U	U	U	U	U	U	U
Cyclohexane	**NE**		**NE**		U	0.0075	U	0.063	U	U	U	U	U	U
Ethylbenzene	**193**		**58,100**		0.180	0.020	0.150	0.570	U	U	U	U	U	0.00035 (J)
2-Hexanone	**NE**		**NE**		U	0.0037 (J)	U	U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	**10.5**		**26,100**		U	0.00048 (J)	U	0.033 (J)	U	U	U	U	U	U
4-Methyl-2-pentanone	**NE**		**NE**		U	0.0013 (J)	U	U	U	U	U	U	U	U
Methyl acetate	**NE**		**NE**		0.027	U	U	U	U	U	U	U	U	U
Methyl ethyl ketone (2-Butanone)	**3,880**		**297,000**		0.230	0.034	0.096 (J)	0.150 (J)	0.017	U	0.0042 (J)	0.0026 (J)	0.0038 (J)	0.0037 (J)
Methylene chloride	**2.86**		**24,600**		U	0.0033 (J)	U	U	0.0032 (J)	0.0017 (J)	0.0019 (J)	0.0019 (J)	0.0022 (J)	0.0033 (J)
Xylenes (Total)	**24.7**		**7,210**		0.900	0.100	0.760	3.4	U	U	U	U	U	0.0021 (J)
Toluene	**499**		**138,000**		1.8	0.150	1.3	2.3	0.0018 (J)	0.00042 (J)	0.00042 (J)	0.00070 (J)	0.00052 (J)	0.0012 (J)
Semi-Volatile Organic Compounds (SVOC) Results (mg/kg)														
2-Methylnaphthalene	**627**		**92,600**		0.051	U	U	0.028	U	U	U	U	U	U
Acenaphthylene	**84,100**		**35,000**		0.047	U	U	U	0.095	U	U	U	U	U
Anthracene	**390,000**		**135,000**		0.082	U	U	U	0.075	U	U	U	U	0.021
Benzo(a)anthracene	**260,000**		**1,190**		0.320	U	U	U	0.100	U	U	U	U	0.097
Benzo(a)pyrene	**225,000**		**119**		0.710	U	U	U	0.310	U	U	U	U	0.130
Benzo(b)fluoranthene	**55,500**		**1,140**		0.790	U	U	U	0.290	U	U	U	U	0.160
Benzo(g,h,i)perylene	**2,040,000,000**		**37,200**		1.3	U	U	U	1.5	U	U	U	U	0.092
Benzo(k)fluoranthene	**6,830,000**		**11,900**		0.240	U	U	U	0.099	U	U	U	U	0.076
Chrysene	**192,000**		**65,700**		0.390	U	U	U	0.130	U	U	U	U	0.110
Dibenzo(a,h)anthracene	**22,200,000**		**119**		0.210	U	U	U	0.120	U	U	U	U	0.021
Fluoranthene	**9,010,000**		**43,800**		0.250	U	U	U	0.130	U	U	U	U	0.200
Fluorene	**246,000**		**27,500**		U	U	U	U	0.024	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	**12,200,000**		**724**		1.0	U	U	U	0.680	U	U	U	U	0.120
Napthalene	**25.9**		**215**		0.053	U	U	0.051	0.021	U	U	U	U	U
Phenanthrene	**99,300**		**24,200**		0.095	U	U	U	0.140	U	U	U	U	0.100
Pyrene	**10,700,000**		**33,700**		0.500	U	U	U	0.140	U	U	U	U	0.230
Total Petroleum Hydrocarbon (TPH) Results (mg/kg)														
TPH-GRO	**385**		**1,290,000**		12	2.1 (J)	9.8	21	U	U	U	U	U	U
TPH-DRO	**4,150**		**3,010,000**		35	U	U	10	9.6	U	U	U	U	11
TPH-ORO	**NE**		**2,890,000**		37	U	U	U	31	U	U	U	U	27
Lead Results (mg/kg)														
Lead[1]	**260**		**NE**		96	10	12	95	23	8.1	8.3	7.8	9.1	9.5

Notes:

Bold and light green shaded result exceeds the MRBCA Tier 1 RBTL for Type 1 (Sandy) subsurface soils for residential land use. This RBTL is protective of indoor inhalation of vapor emissions from subsurface soil.

[1] MRBCA RBTLs shown are for Soil Type I (sandy) soil types.

[2] RBTLs for non-residential land use are listed if a sample concentration exceeds the RBTL for residential land use.

ft bgs	Feet below ground surface	NE	Not established	RBTL	Risk-Based Target Level	TPH-ORO	Total petroleum hydrocarbons – oil range organics
ID	Identification	mg/kg	Milligrams per kilogram	TPH-DRO	Total petroleum hydrocarbons – diesel range organics	U	Not detected above the method detection limit
J	The reported concentration is estimated	MRBCA	Missouri Risk-Based Corrective Action	TPH-GRO	Total petroleum hydrocarbons – gasoline range organics		

TABLE E-2

SUMMARY OF ANALYTICAL RESULTS IN SUBSURFACE SOIL SAMPLES FROM SOIL BORINGS
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Detected Analyte	Subsurface Soil Tier 1 RBTL[1]	Construction-Depth Soil Tier 1 RBTLs[1]	Lab Sample ID	14031107-11	14031107-12	14031107-13	14031107-14	14031107-15	14031107-17	14031107-18
			Sample ID	**SB-1**	**SB-2**	**SB-3**	**SB-4**	**SB-5**	**SB-7**	**SB-8**
			Depth (bgs)	14-16	4-6	14-16	3-4	3-4	4-5	14-16
	Residential Land Use	**Construction Worker Scenario**	**Sample Location**	Southwest of building	South of building	Southeast of building	Adjacent to north side of building	North of building	Northwest of building	North boundary of property
Volatile Organic Compounds (VOC) Results (mg/kg)										
Acetone	**1,830**	**208,000**		0.051	0.051	0.015	0.048	0.031	0.074	0.018
Carbon disulfide	**6.26**	**42,800**		U	U	U	U	U	U	U
Ethylbenzene	**193**	**58,100**		U	U	U	U	U	U	U
Isopropylbenzene (Cumene)	**10.5**	**26,100**		U	U	U	U	U	U	U
Methyl ethyl ketone (2-Butanone)	**3,880**	**297,000**		0.0034(J)	0.0068 (J)	0.0066 (J)	0.0068 (J)	0.0037 (J)	0.012	U
Methylene chloride	**2.86**	**24,600**		0.0014 (J)	0.0013 (J)	U	0.0014 (J)	0.0021 (J)	0.0022 (J)	0.0015 (J)
Xylenes (Total)	**24.7**	**7,210**		U	U	U	U	U	U	U
Toluene	**499**	**138,000**		0.0037 (J)	U	U	0.00045 (J)	0.00045 (J)	0.00079 (J)	0.00039 (J)
Semi-Volatile Organic Compounds (SVOC) Results (mg/kg)										
2-Methylnaphthalene	**627**	**92,600**		U	U	U	U	U	0.730	U
Acenaphthene	**66,900**	**25,700**		U	0.023	U	U	U	2.3	U
Acenaphthylene	**84,100**	**35,000**		U	U	U	U	U	0.890	U
Anthracene	**390,000**	**135,000**		U	0.075	U	U	U	7.8	U
Benzo(a)anthracene	**260,000**	**1,190**		U	0.300	U	0.025	U	16	0.028
Benzo(a)pyrene	**225,000**	**119**		U	0.340	U	U	U	15	0.058
Benzo(b)fluoranthene	**55,500**	**1,140**		U	0.400	U	U	U	16	0.052
Benzo(g,h,i)perylene	**2,040,000,000**	**37,200**		U	0.270	U	U	U	11	0.025
Benzo(k)fluoranthene	**6,830,000**	**11,900**		U	0.150	U	U	U	6.2	0.034
Chrysene	**192,000**	**65,700**		U	0.340	U	0.022	U	15	0.020
Dibenzo(a,h)anthracene	**22,200,000**	**119**		U	0.056	U	U	U	0.89	U
Fluoranthene	**9,010,000**	**43,800**		U	0.600	U	0.059	U	35	0.055
Fluorene	**246,000**	**27,500**		U	0.021	U	U	U	2.2	U
Indeno(1,2,3-cd)pyrene	**12,200,000**	**724**		U	0.310	U	U	U	12	0.041
Napthalene	**25.9**	**215**		U	U	U	U	U	2.3	U
Phenanthrene	**99,300**	**24,200**		U	0.410	U	0.023	U	29	0.027
Pyrene	**10,700,000**	**33,700**		U	0.640	U	0.046	U	31	0.037
Total Petroleum Hydrocarbon (TPH) Results (mg/kg)										
TPH-GRO	**385**	**1,290,000**		U	U	U	U	U	U	U
TPH-DRO	**4,150**	**3,010,000**		U	11	U	U	U	120	U
TPH-ORO	**NE**	**2,890,000**		U	30	U	U	U	350	U
Lead Results (mg/kg)										
Lead	**260**	**NE**		11	81	15	12	8.8	94	19

Notes:

[1] MRBCA RBTLs shown are for Soil Type I (sandy) soil types.
[2] The construction worker RBTLs shown are the combined RBTLs protective of ingestion, outdoor inhalation (vapor emissions and particulates), and dermal contact.

ft bgs	Feet below ground surface
ID	Identification
J	The reported concentration is estimated
mg/kg	Milligrams per kilogram
MRBCA	Missouri Risk-Based Corrective Action
NE	Not established
RBTL	Risk-Based Target Level
TPH-DRO	Total petroleum hydrocarbons – diesel range organics
TPH-GRO	Total petroleum hydrocarbons – gasoline range organics
TPH-ORO	Total petroleum hydrocarbons – oil range organics
U	Analyzed but not detected above the method detection limit
UST	Underground storage tank

TABLE E-3

SUMMARY OF ANALYTICAL RESULTS IN SURFICIAL SOIL SAMPLES
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Detected Analyte	Subsurface Soil Tier 1 RBTL[1]	Surficial Soil Tier 1 RBTLs[1]		Construction-Depth Soil Tier 1 RBTLs[1]	Lab Sample ID	14031107-16
	Residential Land Use	Residential Land Use	Non-Residential Land Use[2]	Construction Worker	Sample ID	SB-6
					Depth (bgs)	1-3
					Sample Location	Near northwest corner of building
Volatile Organic Compounds (VOC) Results (mg/kg)						
Carbon disulfide	**6.26**	**7,290**		**42,800**		0.046
Ethylbenzene	**193**	**7,450**		**58,100**		0.094
Isopropylbenzene (Cumene)	**10.5**	**6,940**		**26,100**		0.016 (J)
Xylenes (Total)	**24.7**	**7,830**		**7,210**		0.93
Toluene	**499**	**6,210**		**138,000**		0.073
Semi-Volatile Organic Compounds (SVOC) Results (mg/kg)						
2-Methylnaphthalene	**627**	**NE**		**92,600**		0.610
Acenaphthene	**66,900**	**3,130**		**25,700**		0.068
Acenaphthylene	**84,100**	**4,180**		**35,000**		0.082
Anthracene	**390,000**	**15,700 ***		**135,000**		0.310
Benzo(a)anthracene	**260,000**	**6.20**		**1,190**		1.3
Benzo(a)pyrene	**225,000**	**0.620**	**2.11**	**119**		**1.5**
Benzo(b)fluoranthene	**55,500**	**6.19**		**1,140**		2.0
Benzo(g,h,i)perylene	**2,040,000,000**	**1,720 ***		**37,200**		1.5
Benzo(k)fluoranthene	**6,830,000**	**62.0**		**11,900**		0.660
Chrysene	**192,000**	**599**		**65,700**		1.4
Dibenzo(a,h)anthracene	**22,200,000**	**0.620**		**119**		0.38
Fluoranthene	**9,010,000**	**2,280**		**43,800**		2.1
Fluorene	**246,000**	**2,200**		**27,500**		0.069
Indeno(1,2,3-cd)pyrene	**12,200,000**	**3.77**		**724**		1.5
Napthalene	**25.9**	**36.3**		**215**		0.320
Phenanthrene	**99,300**	**2,170**		**24,200**		1.2
Pyrene	**10,700,000**	**1,710**		**33,700**		2.3
Total Petroleum Hydrocarbon (TPH) Results (mg/kg)						
TPH-GRO	**385**	**354,000 ***		**1,290,000**		6.9
TPH-DRO	**4,150**	**140,000 ***		**3,010,000**		97
TPH-ORO	**NE**	**124,000 ***		**2,890,000**		80
Lead Results (mg/kg)						
Lead	**260**	**260**		**NE**		260

Notes:

Bold and light orange shaded result exceeds a surface soil MRBCA Tier 1 RBTL for residential land use.

[1] MRBCA RBTLs shown are for Soil Type I (sandy) soil types. The surficial soil and construction worker RBTLs shown are the combined RBTLs protective of ingestion, outdoor inhalation (vapor emissions and particulates), and dermal contact.

[2] RBTLs for non-residential land use are listed if a sample concentration exceeds the RBTL for residential land use.

ft bgs	Feet below ground surface
ID	Identification
J	The reported concentration is estimated
mg/kg	Milligrams per kilogram
MRBCA	Missouri Risk-Based Corrective Action
NE	Not established
RBTL	Risk-Based Target Level
TPH-DRO	Total petroleum hydrocarbons – diesel range organics
TPH-GRO	Total petroleum hydrocarbons – gasoline range organics
TPH-ORO	Total petroleum hydrocarbons – oil range organics
U	Analyzed but not detected above the method detection limit

TABLE E-4

EVALUATION OF WEST TANK PIT SUBSURFACE SOIL SAMPLES
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Detected VOC	MRBCA Tier 1 Subsurface Soil Risk-Based Target Level for Residential Land Use (Carcinogenic Risk Only)	West Tank Pit Sample Name					Average of the detected subsurface soil concentrations collected from the West Tank Pit Area	Cancer Risk[1]
		Tank 1 Floor	Tank 2 Floor	Tank 3 Floor	Tank 4 Floor	West Tank Pit Wall		
1,1-Dichloroethane	**0.922**	**2.9**	0.3	**2.3**	**1.4**	0.022	**1.38**	1.5E-05
1,2-Dichloroethane	**NE**	0.063	0.0085	0.047	U	U	-	-
Acetone	**nc**	0.11	0.081	U	U	0.091	-	-
Benzene	**0.378**	**0.57**	0.077	**0.49**	0.35	0.0015 (J)	0.30	7.9E-06
Carbon disulfide	**nc**	0.044	0.00082 (J)	U	U	0.0018 (J)	-	-
Chloroethane	**0.539**	U	0.0067	U	U	U	0.0067	1.2E-07
Cyclohexane	**NE**	U	0.0075	U	0.063	U	-	-
Ethylbenzene	**nc**	0.18	0.02	0.15	0.57	U	-	-
2-Hexanone	**nc**	U	0.0037 (J)	U	U	U	-	-
Isopropylbenzene (Cumene)	**nc**	U	0.00048 (J)	U	0.033 (J)	U	-	-
4-Methyl-2-pentanone	**nc**	U	0.0013 (J)	U	U	U	-	-
Methyl acetate	**nc**	0.027	U	U	U	U	-	-
Methyl ethyl ketone (2-Butanone)	**nc**	0.23	0.034	0.096 (J)	0.150 (J)	0.017	-	-
Methylene chloride	**2.86**	U	0.0033 (J)	U	U	0.0032 (J)	0.0033	1.1E-08
Xylenes (Total)	**nc**	0.9	0.1	0.76	3.4	U	-	-
Toluene	**nc**	1.8	0.15	1.3	2.3	0.0018 (J)	-	-
Cumulative Cancer Risk for Inhalation of Vapors from Subsurface Soil Pathway for a Hypothetical Residential Use Scenario								**2.3E-05**

Notes:

[1] Cancer Risk = (Representative Concentration / RBTL based on carcinogenic effects) x 1E-05

All concentrations in milligrams per kilogram (mg/kg).
Bold and shaded result equals or exceeds the MRBCA Tier 1 subsurface soil RBTL for residential land use

J	Analyte is present at an estimated concentration between the method detection limit and report limit
nc	Indicates the RBTL for the analyte is based on non-carcinogenic effects
NE	Not established
U	Analyzed but not detected above the method detection limit
MRBCA	Missouri Risk-Based Corrective Action
RBTL	Risk-based Target Level
VOC	Volatile organic compound

TABLE E-5

EVALUATION OF PAH SURFICIAL SOIL SAMPLE RESULTS
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Detected PAH	MRBCA Tier 1 Surficial Soil Risk-Based Target Level for Residential Land Use (Carcinogenic Risk Only)	SB-6	Cancer Risk[1]
2-Methylnaphthalene	**NE**	0.61	-
Acenaphthene	**nc**	0.068	-
Acenaphthylene	**nc**	0.082	-
Anthracene	**nc**	0.31	-
Benzo(a)anthracene	**6.2**	1.3	2.1E-06
Benzo(a)pyrene	**0.62**	**1.5**	**2.4E-05**
Benzo(b)fluoranthene	**6.19**	2	3.2E-06
Benzo(g,h,i)perylene	**nc**	1.5	-
Benzo(k)fluoranthene	**62**	0.66	1.1E-07
Chrysene	**599**	1.4	2.3E-08
Dibenzo(a,h)anthracene	**0.62**	0.38	6.1E-06
Fluoranthene	**nc**	2.1	-
Fluorene	**nc**	0.069	-
Indeno(1,2,3-cd)pyrene	**3.77**	1.5	4.0E-06
Naphthalene	**36.3**	0.32	8.8E-08
Phenanthrene	**nc**	1.2	-
Pyrene	**nc**	2.3	-
Cumulative Cancer Risk for the Surficial Soil Pathway and a Residential Use Scenario			**4.0E-05**

Notes:

[1] Cancer Risk = (Detected Concentration / RBTL based on carcinogenic effects) x 1E-05

All concentrations in milligrams per kilogram (mg/kg).
Bold and shaded result equals or exceeds the MRBCA Tier 1 surficial soil RBTL for residential land use

nc	Indicates the RBTL for the analyte is based on non-carcinogenic effects
NE	Not established
MRBCA	Missouri Risk-Based Corrective Action
PAH	Polycyclic aromatic hydrocarbon
RBTL	Risk-based Target Level

APPENDIX F

CALCULATIONS SUPPORTING MRBCA EVALUATION

CALCULATION OF SITE-SPECIFIC RISK-BASED TARGET LEVEL FOR 1,1-DICHLOROETHANE
FORMER SPOTLESS CAR WASH, ST. LOUIS, MISSOURI

Calculation of *RBTL*$_{si}$	**Parameter**	**Unit**	**Default Values for 1,1-DCA subsurface soil RBTL for residential use scenario and Type 1 soils**	**Site-Specific Values for 1,1-DCA subsurface soil RBTL for residential use scenario and Type 1 soils**
$RBTL_{si} = \frac{RBTL_{ai}}{VF_{sesp}}$				
Risk-based target level for indoor inhalation of vapors from subsurface soils	$RBTL_{si}$	mg/kg-soil	**9.21E-01**	**9.43E-01**
Risk-based target level for indoor inhalation of air	$RBTL_{ai}$	mg/m^3-air	1.60E-02	1.60E-02
Volatilization factor from subsurface soil to indoor (enclosed space) air	VF_{sesp}	(mg/m^3-air)/(mg/kg-soil)	0.017374853	0.016963725

Calculation of *VF*$_{sesp}$

$$VF_{sesp} = \frac{\frac{H \times \rho_s}{\theta_{ws} + (K_{sv} \times \rho_s) + (H \times \theta_{ws})} \times \left[\frac{D_{eff}{}^{s}/dts}{ER \times LB}\right]}{1 + \left[\frac{D_{eff}{}^{s}/dts}{ER \times LB}\right] + \left[\frac{D_{eff}{}^{s}/dts}{(D_{crack}{}^{eff}/Lcra_{ck}) \times \eta}\right]} \times 10^3 = \frac{Term1 \times Term2}{1 + Term2 + Term3} \times 10^3$$

Volatilization factor from subsurface soil to indoor (enclosed space) air	VF_{sesp}	(mg/m^3-air)/(mg/kg-soil)	0.017374853	0.016963725
Term 1 of VF_{sesp} Equation	*Term 1*	-	7.89E-01	7.89E-01
Term 2 of VF_{sesp} Equation	*Term 2*	-	0.003632348	0.00072647
Term 3 of VF_{sesp} Equation	*Term 3*	-	164.0419948	32.80839895
Henry's law constant for 1,1-DCA	H	L-water/L-air	2.30E-01	2.30E-01
Dry Soil Bulk Density	ρ_s	g/cm^3	1.5	1.5
Volumetric Water Content	θ_{ws}	cm^3/cm^3	0.08	0.08
Chemical-specific soil-water sorption coefficient in vadose zone = f_{ocv} x K_{oc}	K_{sv}	cm^3-water/g-soil	1.92E-01	1.92E-01
Fractional organic carbon content	f_{ocv}	g-C/g-soil	0.006	0.006
Soil-water partition coefficient for 1,1-DCA	K_{oc}	cm^3/g	3.20E+01	3.20E+01
Volumetric Air Content	θ_{as}	cm^3/cm^3	0.30	0.30
Depth to subsurface soil sources	d_{ts}	cm	91.44	457.2
Enclosed Space Volume/Infiltration Area (residential structure)	L_B	cm	200	200
Enclosed Space Foundation or Wall Thickness (residential structure)	L_{crack}	cm	15	15
Enclosed space air exchange rate (residential structure)	ER	1/s	0.00014	0.00014
Effective diffusion coefficient in soil based on vapor-phase concentration	$D^{eff}{}_s$		9.30E-03	9.30E-03
Effective diffusion coefficient through foundation cracks	$D^{eff}{}_{crack}$		9.30E-03	9.30E-03
Air fraction of cracks in foundation/walls (residential structure)	η	cm^2/cm^2	0.001	0.001

Calculation of D$_s^{eff}$

$$D_s{}^{eff} = \text{Da} \times \frac{\theta_{as}{}^{3.33}}{\theta_T{}^2} + Dw \times \frac{1}{H} \times \frac{\theta_{ws}{}^{3.33}}{\theta_T{}^2}$$

Effective diffusion coefficient in soil based on vapor-phase concentration	D_s^{eff}	cm^2/s	9.30E-03	9.30E-03
Chemical-specific diffusion coefficient in air	D_a	cm^2/s	7.40E-02	7.40E-02
Chemical-specific diffusion coefficient in water	D_w	cm^2/s	1.10E-05	1.10E-05
Volumetric Air Content	θ_{as}	cm^3/cm^3	0.30	0.30
Volumetric Water Content	θ_{ws}	cm^3/cm^3	0.08	0.08
Total soil porosity	θ_T	cm^3/cm^3-soil	0.38	0.38
Henry's law constant for 1,1-DCA	H	L-water/L-air	2.30E-01	2.30E-01

Calculation of D$_{crack}^{eff}$

$$D_{crack}{}^{eff} = \text{Da} \times \frac{\theta_{acrack}{}^{3.33}}{\theta_T{}^2} + Dw \times \frac{1}{H} \times \frac{\theta_{wcrack}{}^{3.33}}{\theta_T{}^2}$$

Effective diffusion coefficient through foundation cracks	D_{crack}^{eff}	cm^2/s	9.30E-03	9.30E-03
Chemical-specific diffusion coefficient in air	D_a	cm^2/s	7.40E-02	7.40E-02
Chemical-specific diffusion coefficient in water	D_w	cm^2/s	1.10E-05	1.10E-05
Volumetric air content in foundation/wall cracks	θ_{acrack}	cm^3-air/cm^3-total volume	0.30	0.30
Volumetric water content in foundation walls/cracks	θ_{wcrack}	cm^3-water/cm^3-total volume	0.08	0.08
Total soil porosity	θ_T	cm^3/cm^3-soil	0.38	0.38
Henry's law constant for 1,1-DCA	H	L-water/L-air	2.30E-01	2.30E-01

ATTACHMENT A

FORMER SPOTLESS CAR WASH PROPERTY PROFILE PHASE II FORM

United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

Form Approved
OMB Number No. 2050-0192
Expires 07-31-2012

PROPERTY PROFILE FORM—Brownfields

Public reporting burden for this collection of information is estimated to average 1.50 hours per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any other aspect of this collection of information, including suggestions for reducing this burden, to the Environmental Protection Agency, Office of Environmental Information, Code 2822T, Washington, DC 20460 and to the Paperwork Reduction Project, Office of Management and Budget, Washington, DC 20503. DO NOT RETURN your form to either of these addresses. Send your completed form to the address provided by the issuing office.

PART I- PROPERTY INFORMATION

COOPERATIVE AGREEMENT RECIPIENT INFORMATION

1. Cooperative Agreement Recipient Name (State/Tribe for Section 128(a) Cooperative Agreements; requestor/contractor for TBAs): St. Louis Land Revitalization Authority

2. Cooperative Agreement Number (contract number for TBAs): EP-S7-13-06

3. What type of cooperative agreement funding is being used for this property?

- ☐ Assessment
- ☐ Revolving Loan Fund
- ☐ Cleanup
- ☐ Section 128(a) – State and Tribal Response
- ☑ TBA (EPA Regions Only)

4. For Assessment, Cleanup, and Revolving Loan Fund cooperative agreements, what type of funding is being used at this property?

- ☐ Hazardous Substance
- ☐ Petroleum
- ☑ Both

5a. Indicate if this form is the initial or Updated Form:

- ☑ Initial Form
- ☐ Updated Form

5b. If "Updated Form," what's the ACRES Property ID?

PROPERTY BACKGROUND INFORMATION

6. Property Name: Former Spotless Car Wash

7a. Street Address: 3300 Wisconsin Avenue

7b. City: St. Louis

7c. County: St. Louis

7d. State: MO

7e. Zip code: 63118

8. Size (in acres): 0.18

9. Parcel Number(s): ID No. 15320001300

STATE & TRIBAL BROWNFIELDS/VOLUNTARY RESPONSE PROGRAM INFORMATION

10. State & Tribal Program Enrollment (If the property is not enrolled in a state program, check Property Not Enrolled check box):

Date of Enrollment: _____ ID Number (if applicable): _____ ☐ Property Not Enrolled in a State or Tribal Program

PROPERTY GEOGRAPHIC INFORMATION *(EPA Brownfields Program, or its contractors, will provide complete latitude/longitude information if cooperative agreement recipients are unable)*

11a. Latitude (use 00.000000 decimal degree format): 38.594294

11b. Longitude (use -000.000000 decimal degree format): -90.22025

11c. Horizontal Collection Method: Global Positioning Method- Unspecified Parameters

11d. Source Map Scale Number (Only if a map/photo was used):

11e. Reference Point (e.g., Center of Facility or Station): Center of a Facility or Station

11f. Horizontal Reference Datum (Choose one):

- ☐ NAD27-North American Datum of 1927
- ☑ NAD83-North American Datum of 1983
- ☐ WGS84-World Geodetic System of 1984

PART II- ENVIRONMENTAL ACTIVITIES

ENVIRONMENTAL ASSESSMENT INFORMATION *(mandatory for Assessment Cooperative Agreements, State & Tribal Property-Specific Assessments, and TBAs; as available for Cleanup and RLF cooperative agreement recipients; CA = Cooperative Agreement)*

Table A – Environmental Assessment Activity (If there are multiple assessments, please use a separate line for each assessment)

Environmental Assessment Detail			Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this					Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Activity	Start Date	Completion Date	This US EPA CA	Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other		
Phase I	11/1/2013	1/7/2014	☑	☐	☐	☐	☐	EPA	$6,407.33
Phase II	1/8/2014	8/25/2014	☑	☐	☐	☐	☐	EPA	$36,950.56
			☐	☐	☐	☐	☐		

12. Indicate whether cleanup is required: ☐ Yes ☑ No ☐ Unknown

CONTAMINANTS & MEDIA AFFECTED INFORMATION *(mandatory for all cooperative agreement types)*

Table B - Contaminants and Media Affected (check all that apply):

Contaminants

Class of Contaminant	REC*	Found	Cleaned Up
Petroleum/Petroleum Products	☐	☑	☐
Controlled Substances	☐	☐	☐
Asbestos	☑	☐	☐
PCBs	☐	☐	☐
VOCs	☑	☐	☐
Lead	☐	☑	☐
Other Metals	☐	☐	☐
PAHs	☐	☑	☐
Other Contaminants	☐	☑	☐
Gasoline and Diesel			
No Contaminants	☐		
Unknown	☐		

Media

Media	Affected	Cleaned Up
Soil	☑	☐
Air	☐	☐
Surface Water	☐	☐
Ground Water	☐	☐
Drinking Water	☐	☐
Sediments	☐	☐
No Media Affected	☐	
Unknown	☐	

*REC = Recognized Environmental Conditions

ENVIRONMENTAL CLEANUP INFORMATION *(mandatory for Cleanup and RLF Cooperative Agreements and State & Tribal Property-Specific Cleanups; as available for Assessment Cooperative Agreements and TBAs)*

13. Cleanup Activity Start Date: _____ **14.** Cleanup Activity Completion Date: _____ **15.** Acres Cleaned Up: _____

16. Date No Further Action/Cleanup Completion Document Issued
(If the property was not enrolled in a state or tribal program, leave blank): Date: _____

17. Number of Cleanup Jobs Leveraged: _____

18. If EPA Brownfields funding was used, indicate the type and amount (If any non-EPA funding was used, fill out Table C):

Type	Amount	Type	Amount
☐ Cleanup Cooperative Agreement	_____	☐ RLF Subgrant	_____
☐ RLF Loan	_____ Date RLF Loan Signed _____	☐ Section 128(a) State/Tribal Cooperative Agreement	_____

Table C - Environmental Cleanup Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other		
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		

PART II- ENVIRONMENTAL ACTIVITIES (continued)

INSTITUTIONAL & ENGINEERING CONTROLS INFORMATION *(mandatory for all cooperative agreement types)*

19a. Indicate whether Institutional Controls are required: ☐ Yes ☑ No ☐ Unknown

19b. If Institutional Controls were required, indicate the category (check all that apply):

☐ Proprietary Controls (e.g., easements, covenants)

☐ Governmental Controls (e.g., zoning, building codes)

☐ Informational Devices (e.g., state registries, deed notices)

☐ Enforcement/Permit Tools (e.g., permits, consent decrees)

Additional Institutional Controls Information:

Address of Data Source (URL if available): _____

19c. Indicate whether Institutional Controls in place: ☐ Yes ☑ No Date: _____

20a. Indicate whether Engineering Controls are required: ☐ Yes ☑ No ☐ Unknown

20b. If Engineering Controls were required, indicate the category (check all that apply):

☐ Cover Technologies (e.g., Capping)

☐ Immobilization Process (e.g., Encapsulation, In-Situ Solidification)

☐ Engineered Barriers (e.g., Slurry Walls, Sheet)

☐ Security (e.g., Guard, Fences)

☐ Other _____

Additional Engineering Controls Information:

Address of Data Source (URL if available): _____

20c. Indicate whether Engineering Controls in place: ☐ Yes ☑ No Date: _____

REDEVELOPMENT AND OTHER LEVERAGED ACCOMPLISHMENTS *(Mandatory for Assessment, Cleanup and RLF Cooperative Agreements; as available for State and Tribal Property Specific Activities and TBAs)*

21. Redevelopment Start Date: _____ **22.** Redevelopment Completion Date: _____

Table D- Redevelopment Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)					
Other Federal	State/Tribal	Local Gov't	Private/ Other	Name of Entity Providing Funds	Amount of Funding Expended on this Activity
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		

23. Number of Redevelopment Jobs Leveraged: _____

24. Future Use and Estimated Acreage (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential).

☐ Multi-story building

☐ Greenspace _____ acres _____ sq. ft.

☐ Commercial _____ acres _____ sq. ft.

☐ Industrial _____ acres _____ sq. ft.

☐ Residential _____ acres _____ sq. ft.

25. Actual Acreage(s) and Type(s) of Greenspace Created: _____

PART II- ENVIRONMENTAL ACTIVITIES (continued)

ANECDOTAL PROPERTY INFORMATION *(as available for all cooperative agreement types)*

26. Property Highlights:

PROPERTY PHOTOGRAPH INFORMATION

27. Indicate whether photographs are available: ☑ Yes ☐ No **28.** Indicate whether video is available: ☐ Yes ☐ No

PART III- ADDITIONAL PROPERTY INFORMATION

PROPERTY HISTORY INFORMATION

29. Property Description / History / Past Ownership:

Please refer to the 2014 Phase II Report

30. Predominant Past Use(s) (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential):

☐ Multi-story building

☐ Greenspace _____ acres _____ sq. ft. ☐ Commercial _____ acres _____ sq. ft.

☐ Residential _____ acres _____ sq. ft. ☐ Industrial _____ acres _____ sq. ft.

OWNERSHIP & SUPERFUND LIABILITY *(Mandatory for Cleanup and RLF Cooperative Agreements)*

31a. Ownership Entity:

☐ Government (Tribal, State, Local) ☐ Private

31b.Current Owner:

32a. During the life of the cooperative agreement, did ownership change?

☐ Yes ☐ No

32b. If "yes," did Superfund federal landowner liability protections factor into the ownership change?

☐ Yes ☐ No ☐ Unknown

PART IV- APPROVALS

33. Cooperative Agreement Recipient Project Manager

Name (please print): Signature Date:

34. US EPA Regional Representative

Name (please print): Signature Date: