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THE SALVATION ARMY

USA Western Territory
Adult Rehabilitation Centers Command
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ARC Commander

March 24, 2017

Re: Quarterly Groundwater and Vapor Monitoring and Site Status Report
First Quarter 2017
The Salvation Army Oakland ARC Building
601 Webster Street,
Oakland, California,
Fuel Leak Case No. R00003084,
Geotracker Global ID T10000003428

"I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website."

Submitted by:

Mark Nelson, Major
ARC Command General Secretary

March 24, 2017

Mr. Keith Nowell, PG, CHG
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services, Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: **Quarterly Groundwater and Vapor Monitoring and Site Status Report
First Quarter 2017**
The Salvation Army Oakland ARC
601 Webster Street,
Oakland, California,
Fuel Leak Case No. RO3084,
Geotracker Global ID T10000003428

Dear Mr. Nowell,

ATC Group Services LLC (ATC) has prepared this Quarterly Water and Vapor Monitoring and Site Status Report for the first quarter of 2017 on behalf of The Salvation Army for their Oakland Adult Rehabilitation Center (ARC) facility located at 601 Webster Street in Oakland, California.

If you have questions or comments regarding this report, please contact us at your convenience.

Sincerely,

ATC Group Services LLC



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Quarterly Groundwater and Vapor Monitoring Report

First Quarter 2017

The Salvation Army Oakland ARC Building
601 Webster Street,
Oakland, California,
ACEH Fuel Leak Case No. R00003084
Geotracker Global ID T10000003428

Submitted to:

Mr. Keith Nowell, PG, CHG
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On behalf of:



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March 24, 2017



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1.0 INTRODUCTION

ATC Group Services LLC (ATC) has prepared this Quarterly Water and Vapor Monitoring and Site Status Report for the first quarter of 2017 on behalf of The Salvation Army for their Oakland Adult Rehabilitation Center (ARC) facility located at 601 Webster Street in Oakland, California.

1.1. SITE DESCRIPTION

The site is The Salvation Army's (TSA) Adult Rehabilitation Center (ARC) (site) located at 601 Webster Street in Oakland, California, as shown on **Figure 1**. The site occupies the entire city block between Webster and Franklin Streets; and between Sixth and Seventh Streets. The northeast portion of the site includes the truck enclosure area. This area is where the former underground storage tank (UST) system was located. Fencing or walls enclose the truck enclosure area, which is used for loading/unloading trucks and for overnight truck parking/security. **Figure 2**, Site Plan illustrates the pertinent site features and the surrounding area.

1.2. SITE HISTORY / CHRONOLOGY

According to TSA, the site was purchased by TSA in April of 1920.

In early 2010, TSA made the decision to discontinue onsite fueling of their fleet of commercial trucks and remove the USTs and dispenser equipment from the site. Between November 22, and 23, 2010, a 10,000-gallon UST containing diesel, an 8,000-gallon UST containing gasoline, and the associated fuel dispensers and piping were removed. The USTs appeared to be in good condition, with no visible holes or signs of leakage. Laboratory analysis of soil samples collected from the base of the UST pit indicated that petroleum hydrocarbons (PHCs) related to gasoline were present. PHCs in the diesel range were not detected in any of the soil samples. This work was described in the report produced by the contractor, Terry Hamilton (Hamilton, 10/4/2010).¹

In early 2011, TSA retained ATC Associates to investigate and assist in fulfilling obligations that may have resulted from the PHC release. After a discussion with the Oakland City Fire Department (OFD), ATC developed limited-scope workplan to assess the release to assist OFD in determining if the case could be closed or should be forwarded to the Local Oversight Program (LOP) Agency of Alameda County, which is Agency in Alameda County is Alameda County Environmental Health (ACEH). The workplan included advancing five direct-push borings to first encountered groundwater, estimated to be at approximately 16 to 25 feet below ground surface (bgs). proposed investigation consisted of drilling five borings to collect and analyses soil and groundwater samples (ATC, 8/8/2011). However, prior to implementing the workplan, the environmental case oversight authority was transferred from OFD to the ACEH which is part of the Alameda County, Health Care Services Agency.

In correspondence dated May 2012 and November 2012, ACEH requested changes to the March 18, 2011 workplan originally submitted to the OFD. Cardno ATC responded by producing a

¹ Bibliography (including Historical Work ATC work products) is included as **Appendix A**.

workplan that proposed two additional borings and the development a site conceptual model (Cardno ATC, 2/28/2013). The workplan was approved by ACEH in a letter dated May 31, 2013.

On July 29 and July 30, 2013, Cardno ATC executed the workplan advancing seven direct-push soil borings at the site. Borings SB1 through SB7 were proposed to be advanced to groundwater. Sixteen soil samples and six groundwater samples were collected and analyzed at an environmental laboratory. The results of laboratory analyses revealed PHCs contamination within the truck enclosure area surrounding the former UST Pit. (Cardno, 1/13//2014) (Cardno, 1/13//2014)

On July 2, 2014, a meeting was held between ACEH, TSA, and ATC. Based on the meeting, a follow up email on July 2, 2014 from the ACEH directed the development of a workplan to address laboratory analysis continuity, lateral and vertical delineation of soil and groundwater contamination, gas intrusion to indoor air, and a sensitive receptor survey. Additionally, ACEH requested a Feasibility Study/ Corrective Action Plan (FS/CAP) submitted by the end of the year, if warranted by the field investigation. In response, Cardno ATC produced and submitted a workplan that proposed 1.) Advancing twelve to sixteen membrane interface probe (MIP) borings to screen the soil and water for the presence of contamination, followed by 2.) The advancement of eight to ten Hollow Stem Auger (HSA) borings to retrieve quantitative samples, and finally 3.) The installation of four monitoring wells to further assess PHCs dissolved in groundwater. (Cardno ATC, 8/14/2014)

ACEH responded in correspondence dated December 24, 2014. ACEH evaluated the existing data and the results projected to be derived from implantation of the workplan and determined that the site did not meet several of the criteria for the State of California Water Resources Control Board's (Water Board) Low Threat Closure Policy (LTCP) including the Conceptual Site Model (CSM) portion of the General Criteria section. ACEH indicated that LTCP data gaps could not be filled with MIP data. ACEH directed the advancement of additional HSA borings to fill the LTCP data gaps particularly targeting the 0- to 5-foot and 5- to 10-foot zones. ACEH's opinion was that it was premature to collect sub-slab soil vapor samples as described in the workplan unless depth to water data indicates the piezometric surface is less than 2 feet below the base of the foundations. ACEH requested the preliminary data collected from the soil and groundwater portion of the investigation be submitted for consideration prior to conducting the soil vapor portion of the investigation. ACEH stated that if a diesel release had occurred, it was not likely to be significant and therefore total petroleum hydrocarbons as diesel (TPHd) could be eliminated from the analytical scope. ACEH directed the placement of three onsite monitoring wells, but believed it was premature to identify locations of offsite well. In February 2015, Cardno ATC responded by reissuing a new workplan (Cardno ATC, 2/27/2015).

ACEH responded to ATC's February 2015 work plan in a letter dated June 1, 2015. ACEH directed the inclusion of additional assessment activities including two additional HSA borings within the footprint of the former UST pit, sampling at additional depths within HSA borings J2, J5, M2, and M5, as well as collection of and additional soil sample collected from the interval between ten feet bgs and first encountered groundwater in all borings showing evidence of contamination. ACEH agreed with the installation of three monitoring wells within the truck enclosure area but wanted Cardno ATC to provide the MIP and HSA data, and to confer with ACEH prior to installing additional wells. ACEH also believed it was premature to collect soil

vapor samples until the depth to groundwater (DTW) had been established through the installation and gauging of monitoring wells.

Between September 28, and October 2, 2015, ATC advanced 14 MIP borings, first with a conventional direct-push rig, but later with a CPT rig when refusal was encountered prior to the target depth. To confirm and supplement MIP data, 15 hollow stem auger (HSA) borings advanced for the collection of discrete soil samples which were field screened and analyzed by a laboratory. Results of the investigation indicated PHC was encountered both in the truck enclosure and across Franklin Street in the Salvation Army Used Car lot. Using the data obtained from the MIP and HSA borings, locations for the monitoring wells were selected. ATC communicated this information to ACEH in an email. ATC installed three groundwater monitoring wells in the truck enclosure area and one additional well in the used car lot across Franklin Street. Groundwater samples collected from all the monitoring wells contained dissolved phase hydrocarbons, with the highest concentrations seen in monitoring wells MW1 and MW3. (ATC, (4/26/2016)

During quarterly groundwater sampling activities on August 16, 2016, ATC detected 2.04 inches/0.17 feet of non-aqueous phase liquid (NAPL) in MW3. On September 8, 2016, ATC installed a passive skimmer in MW-3.

Since the end of 2015, ATC has collected, analyzed, and reported on groundwater samples from the monitoring well network at the site. Dissolved phase PHC is present onsite and offsite to the west. Highest concentrations have been reported in MW-3 and MW-1 with benzene concentrations currently exceeding the Environmental Screening Levels (ESL). Groundwater elevation averaged around 11.68 feet above mean sea level (amsl) with the groundwater flow direction varying between the west-southwest to the southwest at an average slope of 0.012 feet/foot (ft/ft). See Appendix A for a complete listing of the completed quarterly reports.

In the fall of 2015, ATC searched for Sensitive Receptors starting with requests extended to California Department Water Resources (DWR) and Alameda County Public Works Agency, Water Resources (ACPWAWR) for a list of prospective candidate wells shown to be located within the search area encompassing a 2,000-foot radius around the site. These requests resulted in a subset of 742 candidate wells that ATC further screened by location and well type. This screening eventually identified four qualified production and two cathodic protection wells within the 2,000-foot radius search area. During field reconnaissance, ATC determined that all six wells were located upgradient or cross gradient of the TSA site and thereby unlikely sensitive receptors. In addition during field reconnaissance, ATC identified the nearby 8 Orchids Condos multi-story Building as possibly having sumps to dewater their subsurface structures, but these sumps were not included in the list of permitted wells obtained from traditional sources. In addition, ATC observed the proximity of BART's subsurface infrastructure might include dewatering components that could potentially be a receptor and could be influencing the hydrology local to the TSA Site. (ATC, 1/25/2017)

In December of 2016, performed a ATC oversaw the installation of three Cox-Colvin vapor pins through the concrete subslab in the basement of the TSA ARC Building to sample soil vapor adjacent to the release but beneath the ARC Building. Subslab soil vapor samples were collected, analyzed and the laboratory results compared to the results were compared to Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control, specifically, the Table 1 ESLs for Subslab/Soil Gas. None of the analytical results from the

collected subslab vapor samples were in excess of the RWQCB Tier I ESLs, therefore there is no indication of a vapor intrusion risk related to the petroleum hydrocarbon release at this site. ACEH directed continued quarterly sampling for the purpose of confirmation and assessment of potential seasonal variation in subslab vapor concentrations. (ATC, 1/10/2017)

2.0 GEOLOGY AND HYDROGEOLOGY

The City of Oakland is located within the San Francisco Bay Area Physiographic Province and is bounded by the San Francisco Bay to the northwest, west, and southwest and by the Oakland Hills to the east. The landmass on which Oakland is located was formed as a result of an uplift of the Oakland Hills along the Hayward Fault out of the San Francisco Bay basin, which lies to the north and west. The area where Oakland is located is covered with alluvium from the Sierra Nevada mountain range deposited by the San Joaquin and Sacramento River systems, and by local creeks and streams flowing from the Oakland Hills. Sedimentary deposits consisting of non-marine sandstone, conglomerate, and mudstone underlie the alluvium.

Specific to the geology of the site, soil from borings SB1, SB2, and SB7 advanced at the site in July 2013 consisted of fill material placed in the former tank pit to a depth of approximately 13 to 15 feet bgs. Silty sand and fine sand were encountered from 15 feet to 25 feet in SB1, and from 13 feet to 20 feet in SB2 and SB7, the maximum depths to which these borings were characterized. Soil from the borings SB3, SB4, and SB5 consisted of sandy clay or clayey sand to a depth of approximately 5 to 7 feet bgs. Silty sand and fine sand were encountered from depths between 5 to 7 feet and 20 feet, the maximum depths to which the borings were characterized, with the exception of SB3 that had sandy clay from 16 to 18 feet bgs. Soil from the boring SB6 consisted of silty sand to a depth of approximately 5 feet bgs. Fine sand was encountered from 5 feet to 15 feet bgs, and silty sand was encountered between 15 feet and 20 feet, the maximum depth to which the boring was characterized. (Cardno ATC, 1/13/2014)

The site lies within the East Bay Plain Sub-basin 2-9.04. In general, groundwater in this basin has been designated beneficial for municipal and domestic water supply, industrial process and service water supply, and agricultural water supply. Despite this designation, the East Bay Municipal Utility District (EBMUD) indicates that all potable drinking water for the City of Oakland is imported from the Mokelumne River watershed. Lake Merritt lies approximately 3,250 feet to the east-northeast upgradient of the site. The nearest surface water body to the site is Oakland Inner Harbor/Oakland Estuary, located approximately 2,000 feet downgradient to the south. (ATC, 12/23/2016)

The surface topography in the vicinity surrounding the site slopes gently to moderately from the northeast to the southwest, which is consistent with the path of Franklin Street. However, available data obtained from other nearby leaking underground storage tank (LUST) sites reveals the direction of regional groundwater flow to be variable, with variability sometimes attributed to dewatering activities related to subterranean BART infrastructure. (ATC, 12/23/2016)

The groundwater flow direction on site generally follows the surface grade from the northwest to the southeast. ATC observes that during the previous groundwater monitoring events the observed gradient was variable ranging from southeast to southwest. A significant groundwater elevation decrease is noted in the one offsite monitoring well (MW-4), implying a groundwater flow to the southwest in the area surrounding this monitoring well. (ATC, 1/25/2017)

3.0 CHARACTERIZATION STATUS

ATC has conducted three investigative mobilizations advancing fourteen (14) MIP borings, fifteen (15) conventional hollow stem auger soil borings, and installed four (4) monitoring wells.

The HSA Boring P2 in the northwest corner of the truck enclosure area laterally defines both the adsorbed and dissolved phase PHCs in both vadose and saturated zones. ATC advanced HSA borings and collected soil samples in the areas of highest detected concentrations, including MW1 to 35 feet bgs and MW3 to 30 feet bgs and no adsorbed phase PHC has been detected in collected soil samples below 20 feet bgs across the site. Additionally, ATC has installed, developed, and sampled four groundwater monitoring wells at the site with dissolved phase PHC detected in all the monitoring wells with Non-Aqueous Phase Liquid (NAPL) being detected sporadically in MW3. Therefore, the extent of dissolved phase remains largely undefined. (ATC, 4/26/2016)

Vapor Phase PHC was detected in subslab vapor samples collected during the fourth quarter 2016, but none of the collected samples were found to be in excess of the RWQCB Tier I ESLs. (ATC, 1/10/2017)

4.0 ACTIVITIES COMPLETED DURING 2017Q01

4.1. GROUNDWATER MONITORING, SAMPLING AND ANALYSIS

The first Quarter 2017 monitoring and sampling was performed on February 13, 2014. Field personnel utilized ATC's *Standard Field Procedures for Groundwater Monitoring, Sampling, and Laboratory Analysis*, a copy of which is included in **Appendix B**. The well construction details for the monitoring wells in the site's monitoring well network are contained in **Table 1**. On February 13, 2017, ATC mobilized to the site and collected depth to groundwater measurements from MW-1 through MW-4 that make up the site's monitoring well network.

4.1.1. Groundwater Elevations and Hydrogeologic Conditions

Depth to water measurements in the monitoring well network ranged from 16.35 to 18.05 feet below top of casing and the calculated groundwater elevations ranged from 12.85 to 14.03 feet amsl. On February 13, 2014, the average of the calculated groundwater elevations in the four wells was 13.63 feet amsl. This elevation was 2.08 feet higher than the average last quarter and 1.77 feet higher than the first quarter of 2016. A summary of groundwater elevation data is presented in **Table 2**.

Based on first quarter 2017 groundwater elevations observed on February 13, 2014, the groundwater gradient and flow direction was towards the southwest at a gradient of offsite 0.124 (**Figure 3**). This is identical to the third quarter of 2016. **Table 3** presents a summary of the calculated groundwater gradient calculations.

No NAPL was detected in any of the monitoring wells on February 13, 2017, including MW-3, which contains a passive skimmer.

4.1.2. Groundwater Analytical Results

First Quarter 2017 groundwater monitoring samples were analyzed utilizing USEPA Method 8260B for TPHg, BTEX, fuel oxygenates, 1, 2 DCA, and EDB and USEPA Method 8015B for total petroleum hydrocarbons in the diesel range (TPHd). Additionally, due to the detection of chlorinated VOCs in soil vapor samples, ATC requested chlorinated VOC be reported for groundwater samples this quarter. Analysis of the organic lead compounds tetramethyl lead (TML) and tetraethyl lead (TEL) were only performed for MW-1 and MW-3, as TPHg in MW-2 and MW-4 have never demonstrated sufficiently high concentrations to warrant analysis for the lead compounds.

The following are constituents of concern reported for the first quarter 2017:

- TPHg was reported in samples collected from all four monitoring wells, with a maximum reported concentration of 29,000 µg/L from MW-1.
- TPHd was analyzed both with and without Silica Gel Cleanup (SGC). TPHd analyzed without SGC was reported in samples collected from all four monitoring wells, with a maximum reported concentration of 1,900 µg/L from MW-1 and MW-3. TPHd analyzed with SGC was reported in samples collected from all four monitoring wells, with a maximum reported concentration of 690 µg/L from MW-3. Although, TPHd was reported as being present in the groundwater samples, an examination of chromatograms by the laboratory concluded the chromatograms were not consistent with established chromatograms of diesel in their reference library.
- Benzene was reported in samples collected from all four monitoring wells, with a maximum reported concentration of 6,700 µg/L from MW-1.
- Toluene was reported in samples collected from all four monitoring wells, with a maximum reported concentration of 6,100 µg/L from MW-1.
- Ethyl benzene was reported in samples collected from all four monitoring wells, with a maximum reported concentration of 760 µg/L from MW-1.
- Total xylenes were reported in samples collected from all four monitoring wells, with a maximum reported concentration of 4,100 µg/L from MW-1.
- MTBE was reported in samples collected from all the monitoring wells except MW-4, with a maximum reported concentration of 700 µg/L from MW-1.
- Naphthalene was reported in samples collected from all the monitoring wells except MW-4, with a maximum reported concentration of 190 µg/L from MW-1.
- ETBE, DIPE, TBA, TAME, and EDB were not detected in any of the groundwater samples collected from the monitoring well network this quarter.

- Organic lead was not detected above laboratory detection limits in the in the two wells for which this analyte was analyzed (MW-1 and MW-3).
- 1,2-DCA was detected in MW-1 at 28 µg/L which is below the ESL. No other chlorinated volatile organic compounds (CVOCs) were detected in any of the groundwater samples.

Laboratory analytical results are Data is summarized in **Table 4**. **Figures 4** through **6**, respectively present the isoconcentrations for TPHg, non-SGC TPHd, and benzene, for the first quarter of 2017. All laboratory analytical results reports are included in **Appendix B**.

4.2. SOIL VAPOR SAMPLING AND ANALYSIS

On February 13, 2017, ATC field personnel sampled the three (3) soil vapor sampling points BSS-1, BSS-2, and BSS-3 that are located in the basement of the ARC Building. The soil vapor sampling points are depicted on **Figure 9**. Sampling was completed consistent with ATC's *Standard Field Procedures for Soil Vapor Sampling and Laboratory Analysis*, a copy of which is included in **Appendix E**. The vapor sampling log is included in **Appendix F**.

Collected vapor samples were transported under chain-of-custody documentation to a state-certified laboratory for analyses. Copies of the chain of custody document and analytical laboratory results are included in **Appendix G**. **Table 5** includes a full summary of historic analytical results of soil vapor sampling for Leaking Underground Fuel Tank (LUFT) related compounds and their respective Tier I ESL values. Some non-LUFT related Chlorinated Volatile Organic Compounds (CVOOC) were also detected and addressed separately below.

Upon receiving the laboratory analysis ATC performed a Tier I evaluation of the results by comparing the result to *Environmental Screening Levels (ESLs)* established by the San Francisco Bay Regional Water Quality Control Board (RWQCB), dated February 2016, Revision 3. Specifically, the results were compared to the ESLs for Subslab/Soil vapor.

During subslab soil vapor sampling conducted on February 13, 2017, laboratory analysis for petroleum-related VOCs indicated the following:

- Benzene, ethylbenzene, m,p-xylenes, o-xylenes, and DIPE were reported in the sample collected from the subslab vapor point BSS-2, at concentrations of 37 µg/m³, 34 µg/m³, 75 µg/m³, 21 µg/m³, and 5.5 µg/m³; respectively. All of these concentrations are below the Tier I ESLs for these analytes.
- Toluene was reported in the samples collected from subslab vapor point BSS-1, BSS-2, and BSS-3, at concentrations of 22 µg/m³, 260 µg/m³, and 38 µg/m³; respectively. These concentrations were also below the Tier I ESL.
- None of the other petroleum-related COCs were detected above their respective reporting limits.

Laboratory analysis for biogenic indicator gases indicated the following:

- Carbon dioxide was detected in subslab vapor sampling points BSS-1, BSS-2, and BSS-3, at concentrations of 3.3%, 1.6%, and 4.2%; respectively. These concentrations are higher than typically measured in the atmosphere. Carbon dioxide is produced when carbon-containing compounds are degraded aerobically.
- Oxygen concentrations were detected at 16% in all the samples collected from all subslab vapor sampling points. These oxygen concentrations were higher than during the previous quarter sampling. Lowered oxygen concentrations generally indicate the presence of aerobic degradation. The higher concentrations of oxygen present suggest less aerobic degradation has been occurring this quarter.
- Methane, a possible indicator of anaerobic degradation, was only detected in the sample collected from subslab vapor sampling point BSS-2 at 14 ppmv.

Laboratory analysis also indicated the presence of chlorinated volatile organic compounds gases (CVOC). **Table 6** contains a summary of the CVOC compounds detected at this site historically, along with their respective Tier I ESL values.

- Chloromethane was reported in the samples collected from subslab vapor point BSS-1 $5.4 \mu\text{g}/\text{m}^3$. This concentration is below the Tier I ESL.
- Tetrachloroethene and trichloroethene was reported in the sample collected from subslab vapor point BSS-2 at concentrations of $40 \mu\text{g}/\text{m}^3$ and $5.6 \mu\text{g}/\text{m}^3$; respectively. These concentrations are below the Tier I ESL.
- Methylene Chloride was detected in subslab vapor sampling point BSS-2 last quarter but was not detected in any of the samples collected from subslab vapor points this quarter.

5.0 CONCLUSIONS

ATC concludes the following from results of the first quarter 2017 groundwater and soil vapor sampling event:

Groundwater Sampling and Analysis

- Groundwater elevations measured during the first quarter of 2017 sampling event were historically the highest measured at the site.
- In the current quarter, groundwater was measured to flow to the southwest with a gradient of 0.0112 t. The direction and gradient in 2017Q01 is consistent with previous quarters.
- Many of the dissolved phase PHC concentrations recorded this quarter were higher this quarter than any of the previous quarters.

- Although, TPHd was reported as being present in the groundwater samples, the chromatograms of these samples are not consistent with established chromatograms of diesel.
- No chlorinated volatile organic compounds (CVOCs) were detected in any of the groundwater samples.
- No PHC NAPL (free product) was detected/collected again this quarter. It was last detected during the third quarter of 2016.
- No organic lead was detected to be present in excess of the laboratory detection limits in any of the groundwater samples. Organic lead was not detected in the groundwater samples collected from MW-1 and MW-3 this quarter.

Soil Vapor Sampling

- Soil vapor samples collected from beneath the basement floor of the ARC Building contains both LUFT-related and CVOCs; however, all detected concentrations are below their respective ESLs.
- Several indicators suggest less aerobic degradation and more anaerobic degradation may be occurring this quarter.
- The source of these chlorinated PHCs is not known.

6.0 RECOMMENDATIONS

ATC recommends the following:

- Continue to sample and analyze groundwater samples from the monitoring well network on the existing quarterly groundwater sampling schedule,
- Continue to attempt to collect separate-phase PHC recovery in MW-3 using the installed passive skimmer,
- Discontinue the analysis of collected groundwater samples for organic lead unless.
- Continue to develop the Conceptual Site Model for the site by expanding the downgradient groundwater investigation of the extent of benzene existing in concentrations in excess of their respective ESLs, and

7.0 PLANNED FUTURE ACTIVITIES

7.1. ROUTINE GROUNDWATER & VAPOR MONITORING, SAMPLING, AND REPORTING

The next quarterly collection of groundwater and subslab soil vapor samples has been tentatively scheduled for May 16, 2017. After laboratory analytical results have been completed and received, ATC will prepare and submit a quarterly monitoring report (QMR).

7.2. DEVELOPMENT OF A WORKPLAN FOR EXPANDED SITE INVESTIGATION

Upon authorization by ACEH, ATC will develop a workplan includes the continuation of the site investigation and includes:

- The continued definition and quantification of the PHC adsorbed phase mass in the source area.
- Delineation of the dissolved phase PHC downgradient of the site.
- Continued evaluation of the risks represented by the PHC mass in the source area and the dissolved phase PHC downgradient of the site.

8.0 LIMITATIONS

All work at the site and documents submitted are completed under the advisement and review of a California-licensed Professional Geologist (PG) or Professional Engineer (PE).

This document and the work performed have been undertaken in accordance with the scope of work outlined in ATC's contract and with generally accepted professional engineering and environmental consulting practices existing at the time of completion.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workperson like manner and within all accepted standards pertaining to providers of environmental services in California at the time of investigation.

This report was prepared and applicable to the location of the site.

The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points. No soil engineering or geotechnical references are implied or should be inferred.

If documents are cited that were not generated by ATC, the data taken from those documents is used "as is" and is assumed to be accurate. ATC does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

ATC makes no other warranties, expressed or implied.

TABLES



TABLE 1
Groundwater Monitoring Well
Construction Details
The Salvation Army
Adult Rehabilitation Center
601 Webster Street
Oakland, California
1 of 1

Well ID	Installation Date	Casing Diameter	Total Well Depth	Screen Interval		Screen Length	TOC Elevation
		(inches)	(feet bgs)	Upper	Lower	(feet)	(amsl)
MW-1	10/12/2015 -1015/2015	2	30	15	30	15	32.08
MW-2	10/14/2015	2	30	15	30	15	30.12
MW-3	10/15/2015	2	30	15	30	15	30.45
MW-4	10/15/2015	2	30	15	30	15	30.65

TOC = Top of Casing

amsl = above mean sea level

bgs = below ground surface

Table 2
Summary of
Groundwater Elevation Data
The Salvation Army
Adult Rehabilitation Center (ARC)
601 Webster Street
Oakland, California
(Page 1 of 1)

Well ID	Screen Interval	Date Gauged	TOC	DTW	Groundwater Elevation
MW-1	(15-30)	10/23/15	32.08	20.50	11.58
		02/24/16	32.08	19.74	12.34
		05/11/16	32.08	19.45	12.63
		08/16/16	32.08	19.96	12.12
		11/16/16	32.08	20.09	11.99
		02/13/17	32.08	18.05	14.03
MW-2	(15-30)	10/23/15	30.12	18.91	11.21
		02/24/16	30.12	18.11	12.01
		05/11/16	30.12	17.87	12.25
		08/16/16	30.12	18.34	11.78
		11/16/16	30.12	18.50	11.62
		02/13/17	30.12	16.35	13.77
MW-3	(15-30)	10/23/15	30.45	19.08	11.37
		02/24/16	30.45	18.48	11.97
		05/11/16	30.45	18.02	12.43
		08/16/16	30.45	18.65	11.80
		11/16/16	30.45	18.64	11.81
		02/13/17	30.45	16.60	13.85
MW-4	(15-30)	10/23/15	30.65	20.23	10.42
		02/24/16	30.65	19.53	11.12
		05/11/16	30.65	19.22	11.43
		08/16/16	30.65	19.77	10.88
		11/16/16	30.65	19.87	10.78
		02/13/17	30.65	17.80	12.85
DTW = Depth to Water measured in feet from TOC					
TOC = Top of Casing					

Table 3
Summary of Calculated
Groundwater Gradient Information

The Salvation Army
Adult Rehabilitation Center (ARC)
601 Webster Street
Oakland, California

Yr	Qtr	Date	Direction	Gradient (ft./ft.)
2015	4	10/23/15	w-SW	0.0104
2016	1	02/24/16	sw	0.0124
2016	2	05/11/16	w-SW	0.0125
2016	3	08/16/16	sw	0.0124
2016	4	11/16/16	sw	0.0124
2017	1	02/13/17	sw	0.0112
Average hydraulic gradient is measured in feet/foot				
NA = Not Available				
NC = Not calculated due to insufficient data				
--- = flat				

Table 4
Summary of Groundwater Sample Analytical Results
The Salvation Army
Adult Rehabilitation Center (ARC)
601 Webster Street, Oakland, California
(Page 1 of 2)

			TPH _n	TPH _d		Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	ETBE	DIPE	TBA	TAME	1,2-DCA	EDB	Naphthalene	Organic Lead		
				wo/SG	w/SG													TML	TEL	
		ESLs	100	100	100	1.0	40	13	20	5	NE	NE	NE	NE	790	73	17	NE	NE	
Date	Sample ID	Note	Depth to Sample ¹	micrograms per liter (µg/L)																
Water Samples Derived from Monitoring Wells																				
10/23/15	MW-1		20.50	18,000	NA	NA	2,000	2,100	230	1,300	150	<5.0	<5.0	<50	<5.0	7.7	<5.0	NA	NA	NA
02/24/16	MW-1	3	19.74	6,500	1,500	NA	1,600	1,200	110	700	90	<10	<10	<100	<10	<10	<10	NA	NA	NA
05/11/16	MW-1		19.45	28,000	1,200	NA	7,600	5,400	750	2,800	770	<5.0	<5.0	<200	<5.0	NA	NA	NA	0.023	<0.053
08/16/16	MW-1		19.96	6,300	410	NA	2,100	1,200	99	540	130	<50	<50	<2000	<50	NA	NA	NA	<1.2	<1.2
11/16/16	MW-1		20.09	3,600	210	67	1,300	750	70	330	72	<25	<25	<1000	<25	<25	<25	<50	0.022	0.074
02/13/17	MW-1		18.05	29,000	1,900	500	6,700	6,100	760	4,100	700	<25	<25	<1000	<25	28	<25	190	<0.62	<0.62
10/23/15	MW-2		18.91	5,200	NA	NA	520	870	120	560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
02/24/16	MW-2	3	18.11	2,300	80	NA	320	310	31	230	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
05/11/16	MW-2		17.87	1,000	<51	NA	170	200	25	150	<0.5	<0.5	<0.5	<20	<0.5	NA	NA	NA	NA	NA
08/16/16	MW-2		18.34	2,400	NA	NA	340	580	71	380	<50	<0.5	<0.5	<20	<0.5	NA	NA	NA	<1.2	<1.2
11/16/16	MW-2		18.50	5,300	<55	NA	800	1,400	110	780	<5.0	<5.0	<5.0	<200	<5.0	<5.0	<5.0	<10	<0.021	<0.053
02/13/17	MW-2		16.35	2,700	540	220	440	490	46	410	<5.0	<5.0	<5.0	<200	<5.0	<5.0	<5.0	20	NA	NA
10/23/15	MW-3		19.08	7,300	NA	NA	540	610	68	460	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	NA	NA	NA
02/24/16	MW-3	3	18.48	190,000	270,000	NA	1,000	25,000	4,400	23,000	<100	<100	<100	<1,000	<100	<100	<100	NA	NA	NA
05/11/16	MW-3		18.02	67,000	NA	14,000	11,000	14,000	5,600	11,000	77	<50	<50	<2,000	<50	NA	NA	NA	<0.021	0.23
08/16/16	MW-3		18.65	110,000	NA	9,200	9,100	20,000	14,000	23,000	<50	<250	<250	<10,000	<250	NA	NA	NA	<6.2	<6.2
11/16/16	MW-3		18.64	16,000	14,000	9,800	2,500	2,900	360	3,000	<25	<25	<25	<1,000	<25	<25	<25	140	<0.021	0.24
02/13/17	MW-3		16.60	16,000	1,900	690	3,400	2,600	320	2,700	38	<25	<25	<1,000	<25	<25	<25	160	<0.62	<0.62
10/23/15	MW-4		20.23	3,700	NA	NA	440	210	72	160	<0.5	<0.5	<0.5	<5.0	<0.5	15	<0.5	NA	NA	NA
02/24/16	MW-4	3	19.53	<50	820	NA	300	53	31	160	<5.0	<5.0	<5.0	<50	<5.0	7.4	<5.0	NA	NA	NA
05/11/16	MW-4		19.22	45,000	NA	650	17,000	7,900	870	4,000	<250	<250	<250	<10,000	<250	NA	NA	NA	NA	NA
08/16/16	MW-4		19.77	5,900	NA	160	1,200	500	87	350	<10	<10	<10	<400	<10	NA	NA	NA	NA	NA
11/16/16	MW-4		19.87	4,400	480	NA	820	160	25	88	<10	<10	<10	<400	<10	<10	<10	<20	<0.021	<0.053
02/13/17	MW-4		17.80	4,700	670	240	1,000	280	37	150	<10	<10	<10	<400	<10	<10	<10	<20	NA	NA

Table 4
Summary of Groundwater Sample Analytical Data
The Salvation Army
Adult Rehabilitation Center (ARC)
601 Webster Street, Oakland, California
(Page 2 of 2)

			TPH _g	TPHd		Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	ETBE	DIPE	TBA	TAME	1,2-DCA	EDB	Naphthalene	Organic Lead		
				wo/SG	w/SG													TML	TEL	
			ESLs	100	100	100	1.0	40	13	20	5	NE	NE	NE	NE	790	73	17	NE	NE
Water Samples Derived from Investigative Borings																				
07/29/13	SB1-W	²	NC	210,000	NA	NA	35,000	47,000	3,000	16,000	240	<50	<50	<500	<50	<50	<50	NA	NA	NA
07/29/13	SB2-W	²	NC	350	NA	NA	70	26	7.9	15	12	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA
07/30/13	SB4-W	²	NC	280,000	NA	NA	35,000	30,000	3,900	20,000	5,300	<50	<50	<500	<50	<50	<50	NA	NA	NA
07/30/13	SB5-W	²	NC	3,200	<50	NA	370	470	42	200	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<2.0	NA	NA	NA
07/30/13	SB6-W	²	NC	64,000	45,000	NA	6,000	10,000	1,700	8,600	<20	<20	<20	<200	<20	<20	<20	NA	NA	NA
07/30/13	SB7-W	²	NC	1,100	<50	NA	100	170	22	120	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
10/12/15	L2-W	²	NC	9,400	NA	NA	1,300	2,100	240	1,200	<10	<10	<10	<100	<10	<10	<10	NA	NA	NA
10/12/15	L3-W	²	NC	19,000	NA	NA	2,200	2,200	470	2,300	<10	<10	<10	<100	<10	<10	<10	NA	NA	NA
10/14/15	L4-W	²	NC	37,000	NA	NA	4,000	6,200	800	4,300	<10	<10	<10	<100	<10	<10	<10	NA	NA	NA
10/14/15	P2-W	²	NC	120	NA	NA	1.9	5.1	0.9	4.7	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA
Notes: 1 = Depth to Sample = Depth to Water 2 = Sample collected from temporary boring 3 = Sample analyzed for TPHd = Total Petroleum Hydrocarbons as Diesel by EPA Method 8015 (interference) ESLs = Environmental Screening Levels for Groundwater Vapor Intrusion - Human Health Risk Levels (Com/Ind: Fine to Coarse Scenario) Bold = > Detected at or Above Stated Method Detection Limit Bold = > ESL NA = Not Analyzed/Not App NC = Not Collected NE = None Established < = Not Detected at or Above Stated Method Detection Limit TPHd = Total Petroleum Hydrocarbons as Diesel by EPA Method 8015/3630 (Silica Gel Cleanup) TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015 Benzene = Benzene by EPA Method 8260B Toluene = Toluene by EPA Method 8260B Ethyl Benzene = Ethylbenzene by EPA Method 8260B Xylenes = Total Xylenes by EPA Method 8260B TAME = Tertiary Amyl Methyl Ether by EPA Method 8260B ETBE = Ethyl tert=Butyl Ether by EPA Method 8260B MTBE = Methyl Tertiary Butyl Ether by EPA Method 8260B 1,2-DCA = 1,2=Dichloroethane (aka EDC) by EPA Method 8260B DIPE = Diisopropyl Ether by EPA Method 8260B TBA = tert=Butyl Alcohol by EPA Method 8260B EDB =1,2=Dibromoethane by EPA Method 8260B NPHTH = Naphthalene by EPA Method 8260B TEL = Tetra ethyl lead by EPA Method 8270 Modified TML = Tetra methyl lead by EPA Method 8270 Modified																				

TABLE 5
Subslab Soil Gas Sample Analytical Results
LUFT Related Compounds
Salvation Army ARC Building
601 Webster Street
Oakland, California
1 of 1

		Benzene	Toluene	Ethylbenzene	m,p-xylene	o-xylene	DIPE	TAME	ETBE	EDC	EDB	Naphthalene	Naphthalene		Carbon Dioxide	Oxygen	Methane		1,1-Difluoroethane	
Analytical Method		TO15	TO15	TO15	TO15	TO15	TO15	TO15	TO15	TO15	TO15	TO15	TO17		ASTM D1945	ASTM D1945	ASTM D1945		TO15	
Tier I ESL		48	160,000	560	52,000		--	--	--	54	2.3	41	41		-				-	
Sampling Date	Sample ID	units	µg/m ³													%	%	ppmv		µg/m ³
2016Q04	11/16/2016	BSS-1	< 3.2	4.7	72	350	150	< 4.2	< 4.2	< 4.2	< 4.1	< 7.8	< 5.3	NS		2.6	11	< 10		< 5.5
		BSS-2	< 3.2	4.7	< 4.4	< 8.8	< 4.4	< 4.2	< 4.2	< 4.2	< 4.1	< 7.8	< 5.3	NS		1.6	14	< 10		< 5.5
		BSS-3	< 3.2	5.3	< 4.4	< 8.8	< 4.4	< 4.2	< 4.2	< 4.2	< 4.1	< 7.8	< 5.3	NS		2.7	12	< 10		< 5.5
2017Q01	02/13/17	BSS-1	< 3.2	22	< 4.4	< 8.8	< 4.4	< 4.2	< 4.2	< 4.2	< 4.1	< 7.8	< 5.3	<10		3.3	16	< 10		< 5.5
		BSS-2	37	260	34	75	21	5.5	< 4.2	< 4.2	< 4.1	< 7.8	< 5.3	<10		3.2	16	14		< 5.5
		BSS-3	< 3.2	38	< 4.4	< 8.8	< 4.4	< 4.2	< 4.2	< 4.2	< 4.1	< 7.8	< 5.3	<10		4.2	16	< 10		< 5.5
Notes: µg/m3 = Micrograms per cubic meter. All results and ESLs are expressed in µg/m3 ESL = California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board's ESL Worksheet, Revision 3, dated February 2016. ATC used the Tier I ESLs for Subslab/Soil. ppmv = parts per million by volume or moles per million, by volume na = not applicable -- = No ESL provided <x.x = Not detected above laboratory reporting limits x.x = Bold = Concentrentions above laboratory detection limits x.x = Bold = Concentrentions aboveTier I ESL MTBE = Methyl-Tert-Butyl-Ether TBA = Tertiary Butyl Alcohol DIPE = Di-Isopropyl Ether TAME = Tertiary Amyl Methyl Ether ETBE = Ethyl Tertiary Butyl Ether EDC = 1,2-Dichloroethane EDB = Ethyl Dibromide Methylene Chloride, originally detected in the 2016Q4 has been removed from this table and included with the other analytes that have been detected but not associated with the UST release from the site. These results are now included in in Table 6																				

TABLE 6
Subslab Soil Gas Sample Analytical Results
Chlorinated Compounds
Salvation Army ARC Building
601 Webster Street
Oakland, California
1 of 1

				Chloromethane	Methylene Chloride	Tetrachloroethene	Trichloroethene
Analytical Method				TO15			
Tier I ESL				47,000	510	240	240
Sampling Date		Sample ID	units	µg/m3			
2016Q04	11/16/2016	BSS-1		< 2.1	< 3.5	< 6.9	< 5.5
		BSS-2		< 2.1	< 3.5	< 6.9	< 5.5
		BSS-3		< 2.1	14	< 6.9	< 5.5
2017Q01	02/13/17	BSS-1		5.4	< 3.5	< 6.9	< 5.5
		BSS-2		< 2.1	< 3.5	40	5.6
		BSS-3		< 2.1	< 3.5	< 6.9	< 5.5

Notes:

µg/m3 = Micrograms per cubic meter. All results and ESLs are expressed in µg/m3

ESL = California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board's ESL Worksheet, Revision 3, dated February 2016. ATC used the Tier I ESLs for Subslab/Soil.

na = not applicable

ppmv = parts per million by volume or moles per million, by volume

-- = No ESL provided

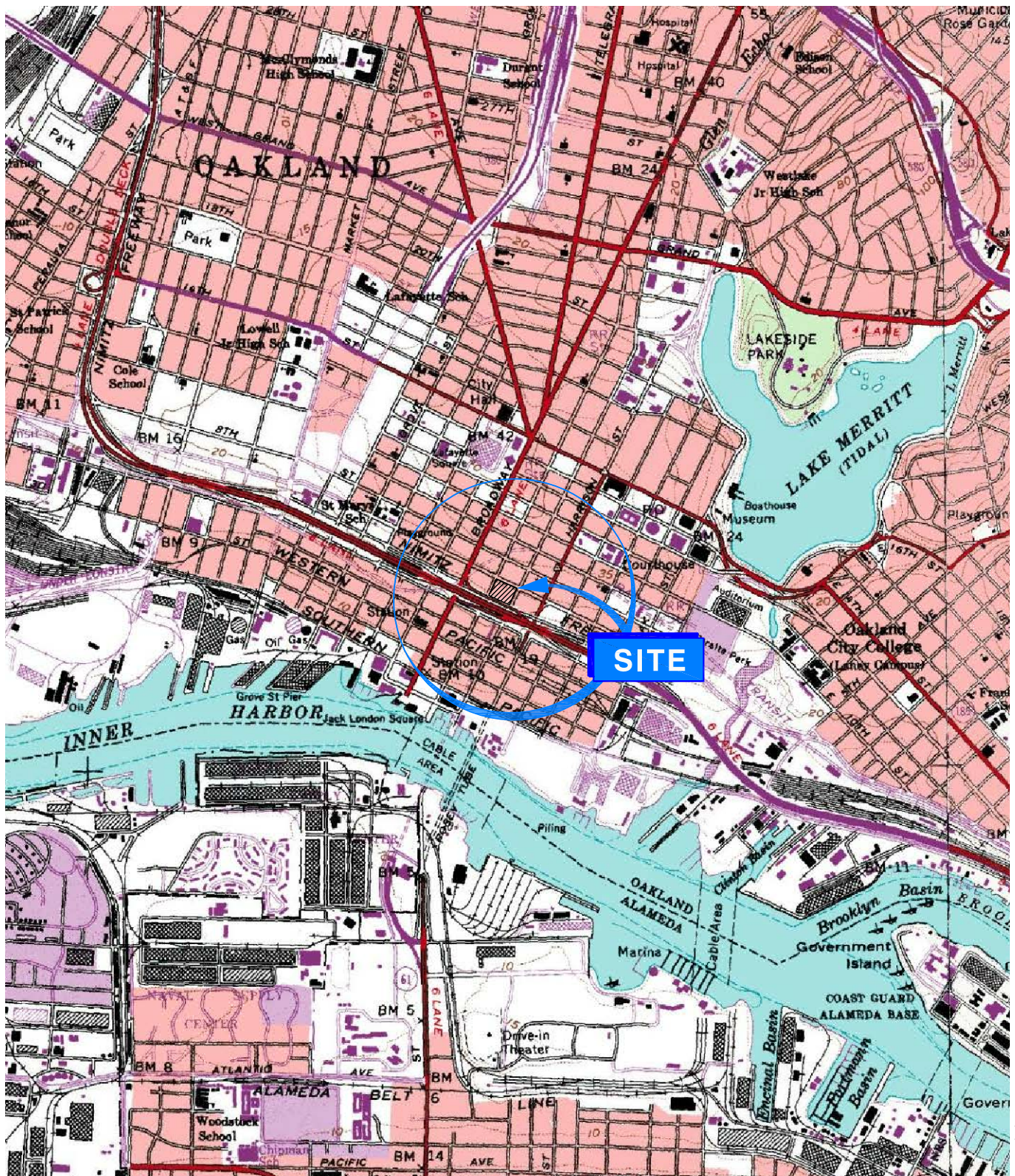
<x.x = Not detected above laboratory reporting limits

x.x = Bold = Concentrations above laboratory detection limits.

x.x = Bold = Concentrations above Tier I ESL

FIGURES





SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
OAKLAND WEST QUADRANGLE, CALIFORNIA, DATE 1959, PHOTO-UPDATED 1980

FIGURE 1
SITE LOCATION MAP
THE SALVATION ARMY
601 WEBSTER STREET
OAKLAND, CALIFORNIA

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1117 LONE PALM AVE., SUITE 201
MODESTO, CA 95351
Ph: (209) 579-2221

PROJECT NUMBER: Z054000006

DESIGNED BY: MDS

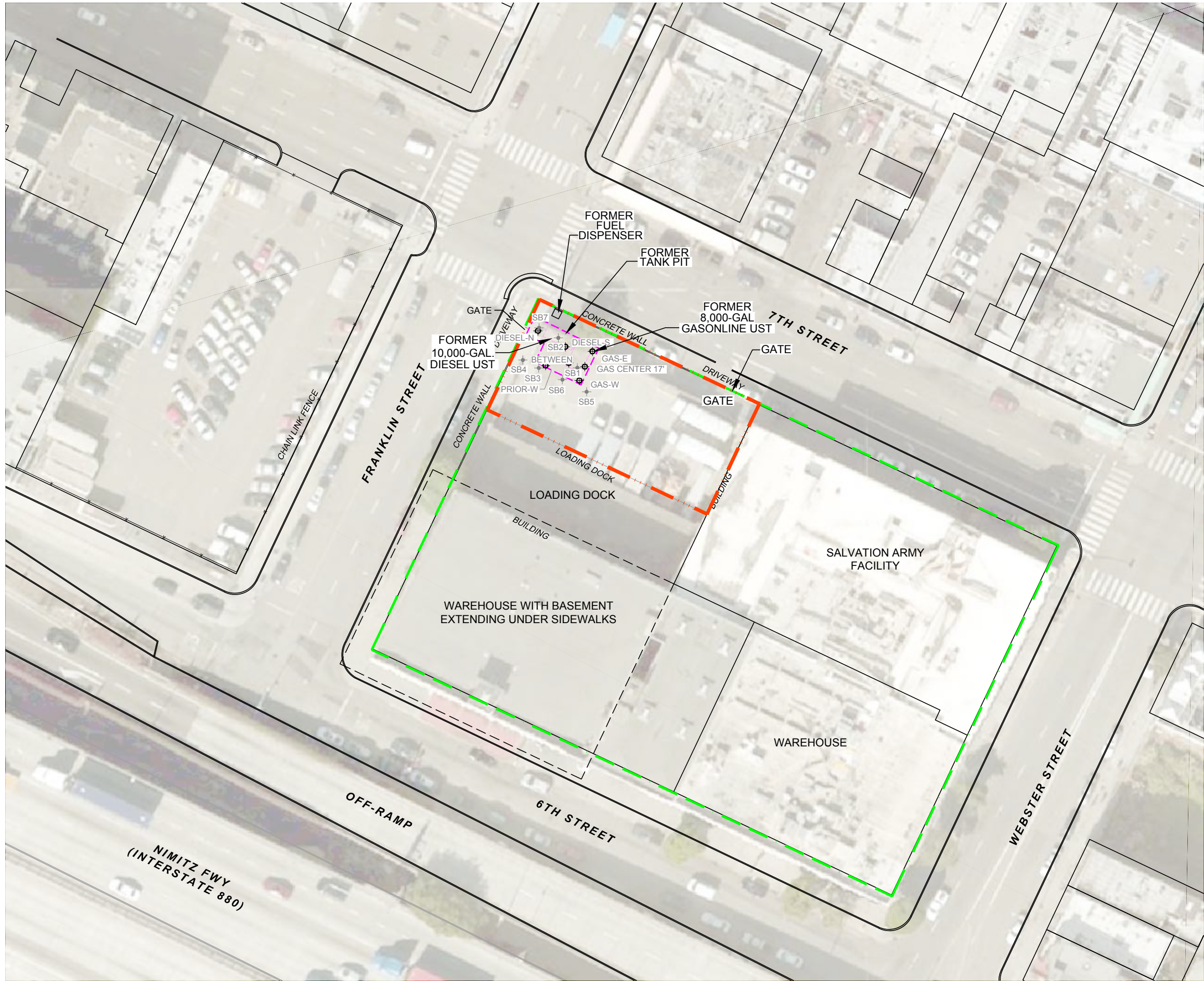
APPROVED BY: JH

DATE: 1-22-15

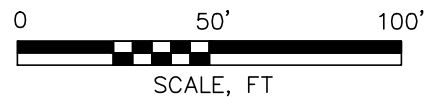
REVIEWED BY: MDS

DRAWN BY: DAW

SCALE: 1:24,000



- LEGEND**
- APPROXIMATE FACILITY BOUNDARY
 - FORMER UST
 - FORMER EXCAVATION
 - TRUCK ENCLOSURE AREA
 - FORMER DIRECT PUSH BORING
 - SOIL BORING



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE



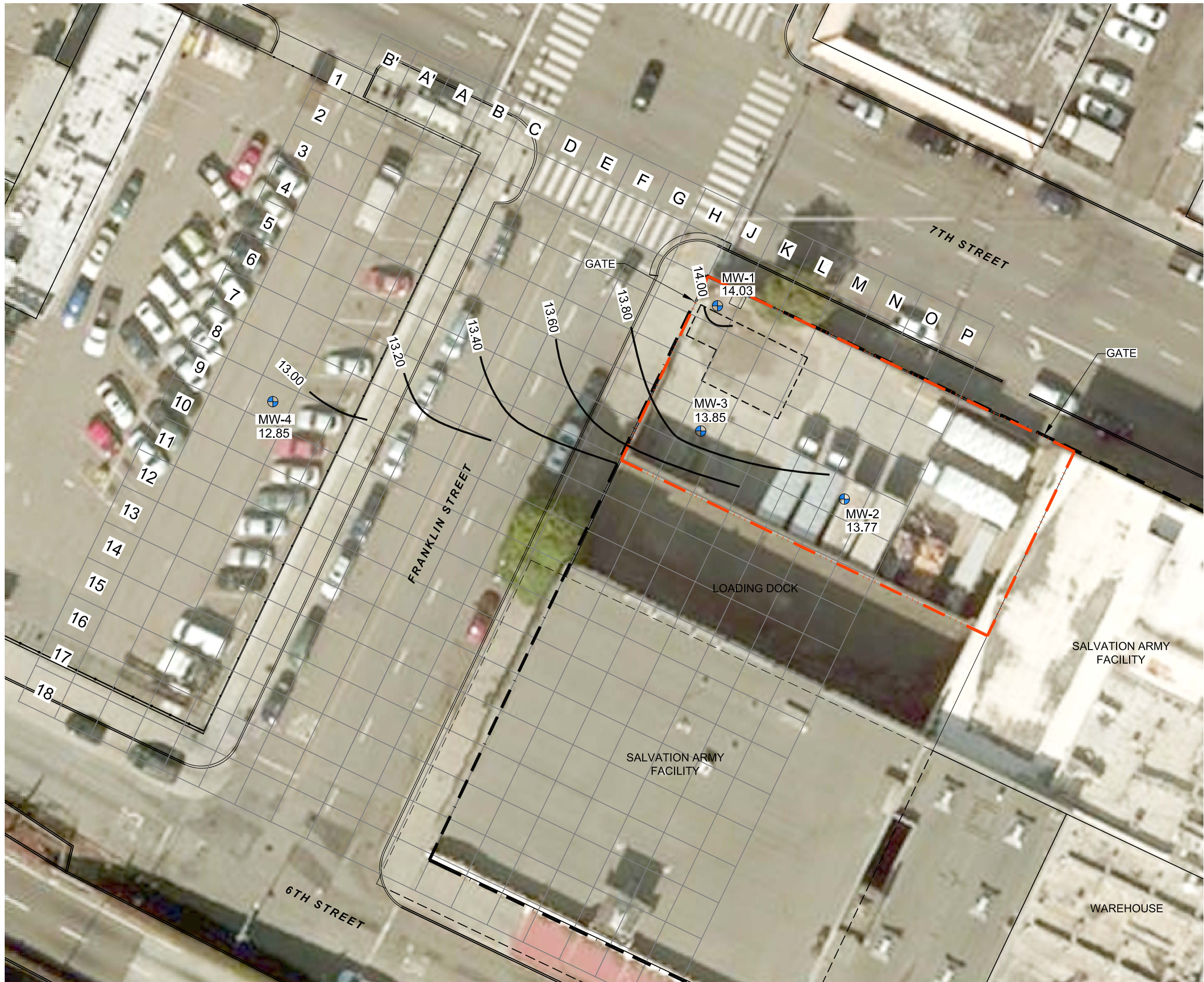
SITE PLAN

THE SALVATION ARMY
601 WEBSTER STREET
OAKLAND, CA

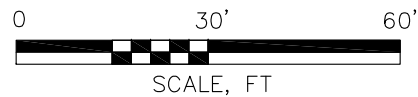
PROJECT NUMBER: 20540000066	DATE: 12-8-15	FIGURE 2
APPROVED BY: M. SONKE	DRAWN BY: DAW	

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- LEGEND**
- APPROXIMATE FACILITY BOUNDARY
 - - - FORMER UST
 - - - FORMER EXCAVATION
 - TRUCK ENCLOSURE AREA
 - ⊕ MONITORING WELL LOCATION
 - 14.03 WATER LEVEL ELEVATION IN FEET
 - 13.80 WATER LEVEL CONTOUR



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE



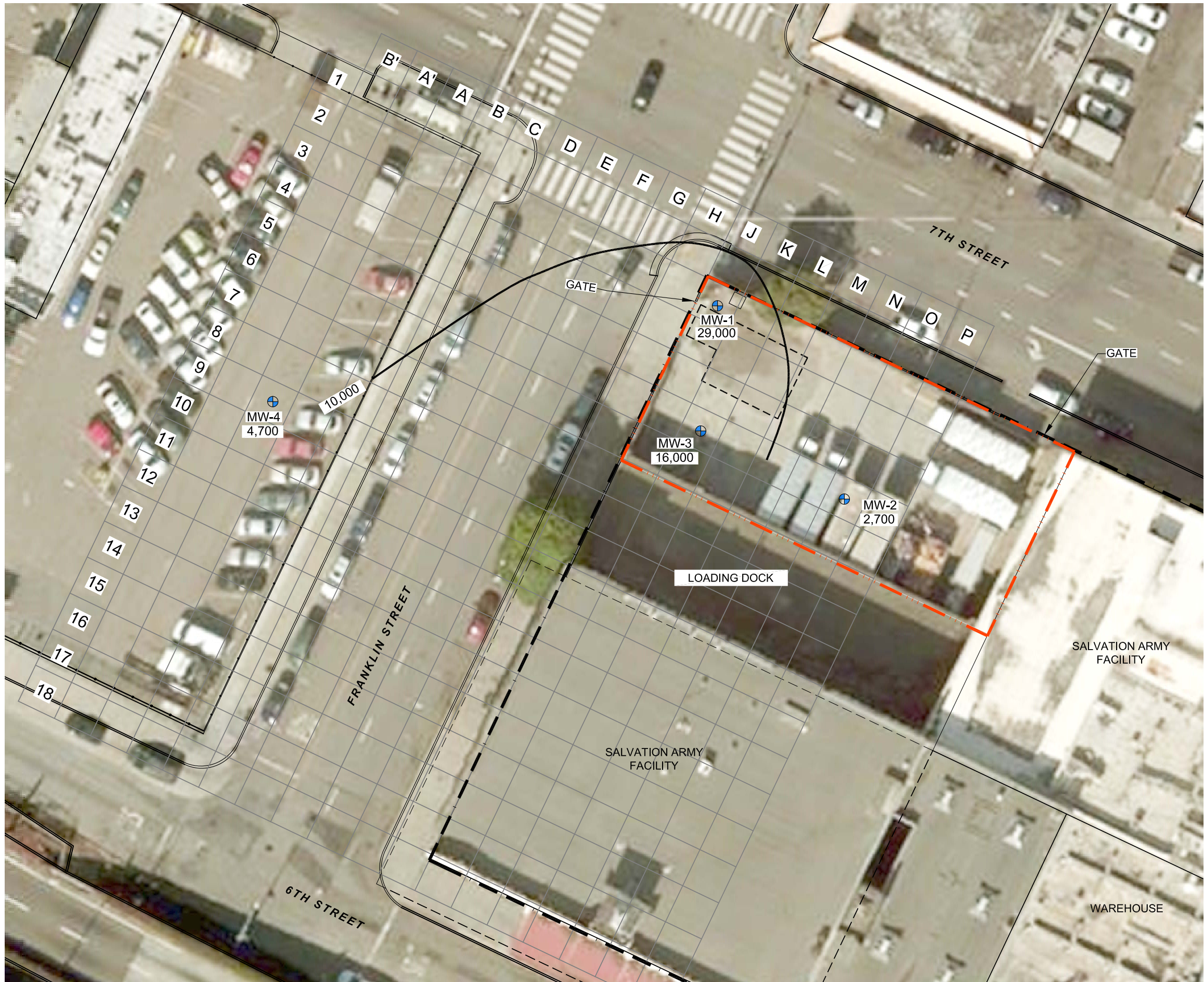
GROUNDWATER CONTOUR MAP - FEBRUARY 13, 2016

THE SALVATION ARMY
601 WEBSTER STREET
OAKLAND, CA

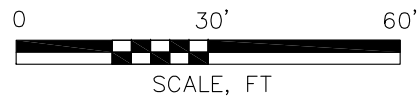
PROJECT NUMBER: Z054000006	DATE: 3-10-17	FIGURE 3
APPROVED BY: M. SONKE	DRAWN BY: TH	

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- LEGEND**
- APPROXIMATE FACILITY BOUNDARY
 - FORMER UST
 - FORMER EXCAVATION
 - TRUCK ENCLOSURE AREA
 - MONITORING WELL LOCATION
 - 2,700 TPHg ISOCONCENTRATION (ug/L)
 - TPHg ISOCONCENTRATION LINE



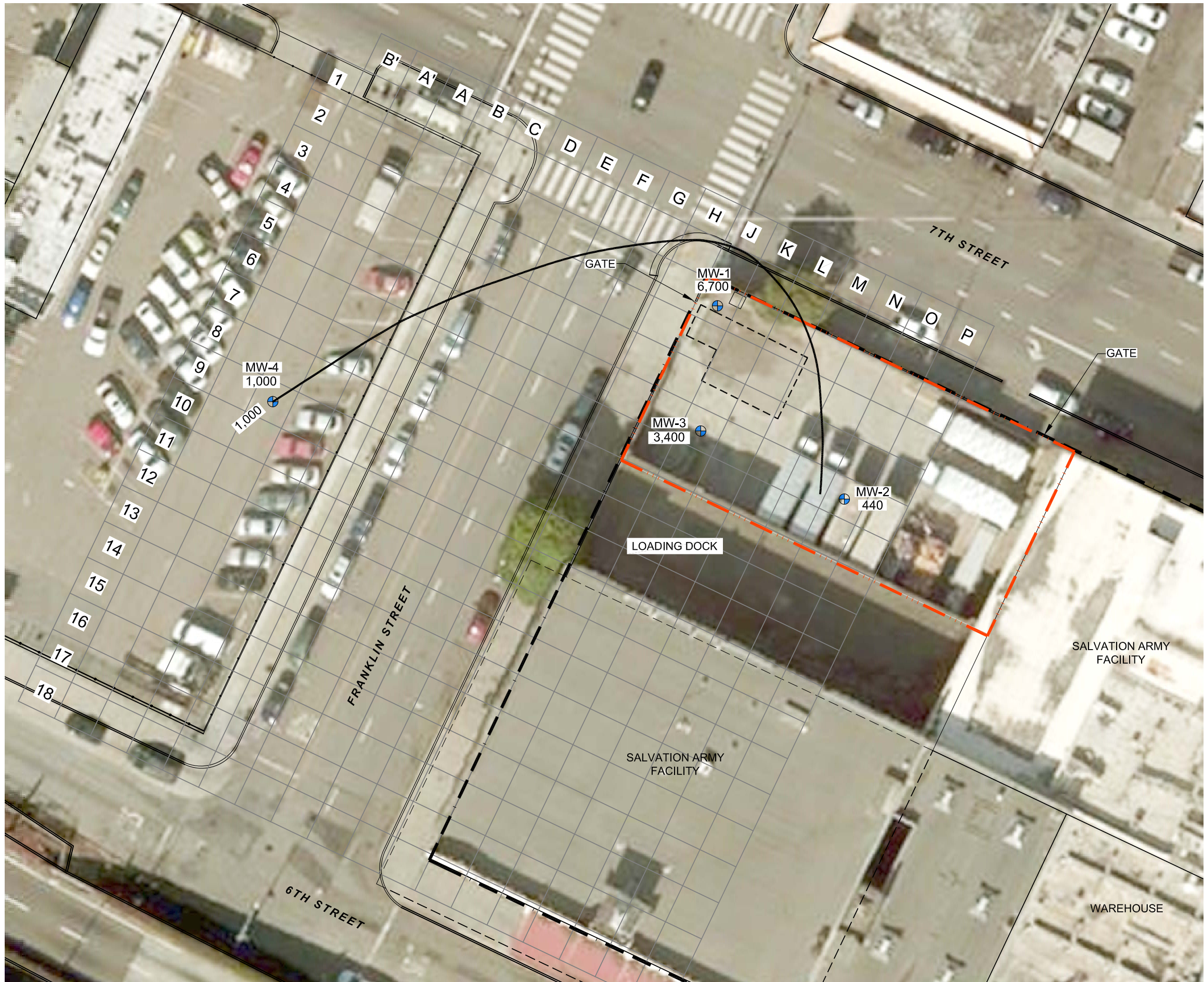
TPHg in GROUNDWATER - FEBRUARY 13, 2017

THE SALVATION ARMY
601 WEBSTER STREET
OAKLAND, CA

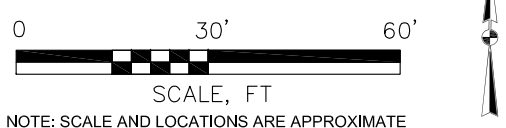
PROJECT NUMBER: Z05400006	DATE: 3-10-17	FIGURE
APPROVED BY: M. SONKE	DRAWN BY: TH	4

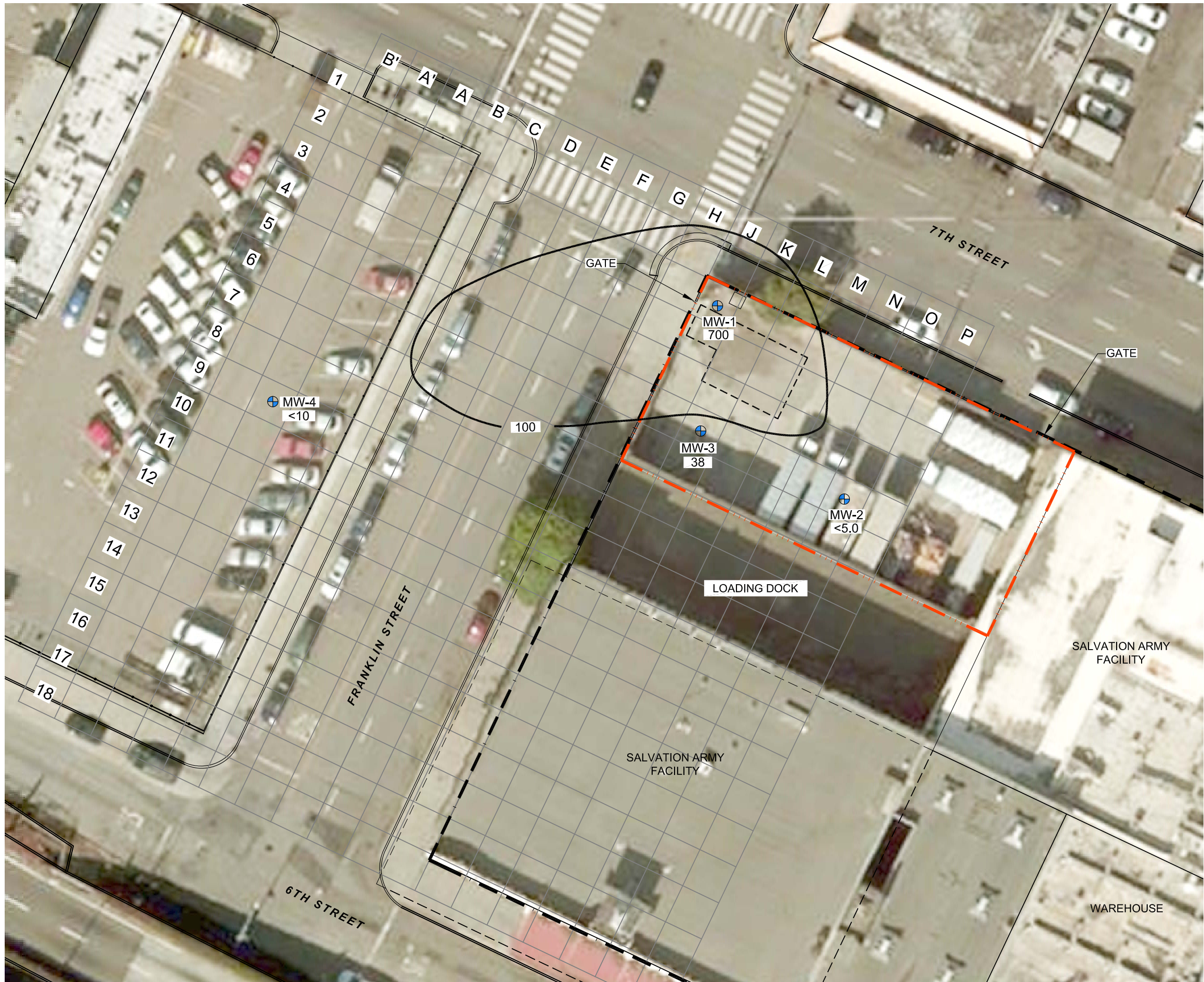
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- LEGEND**
- APPROXIMATE FACILITY BOUNDARY
 - - - FORMER UST
 - - - FORMER EXCAVATION
 - TRUCK ENCLOSURE AREA
 - ⊕ MONITORING WELL LOCATION
 - 6,700 BENZENE ISOCONCENTRATION (ug/L)
 - BENZENE ISOCONCENTRATION LINE





- LEGEND**
- APPROXIMATE FACILITY BOUNDARY
 - FORMER EXCAVATION
 - - - TRUCK ENCLOSURE AREA
 - ⊕ MONITORING WELL LOCATION
 - 700 MTBE ISOCONCENTRATION (ug/L)
 - 100 BENZENE ISOCONCENTRATION LINE



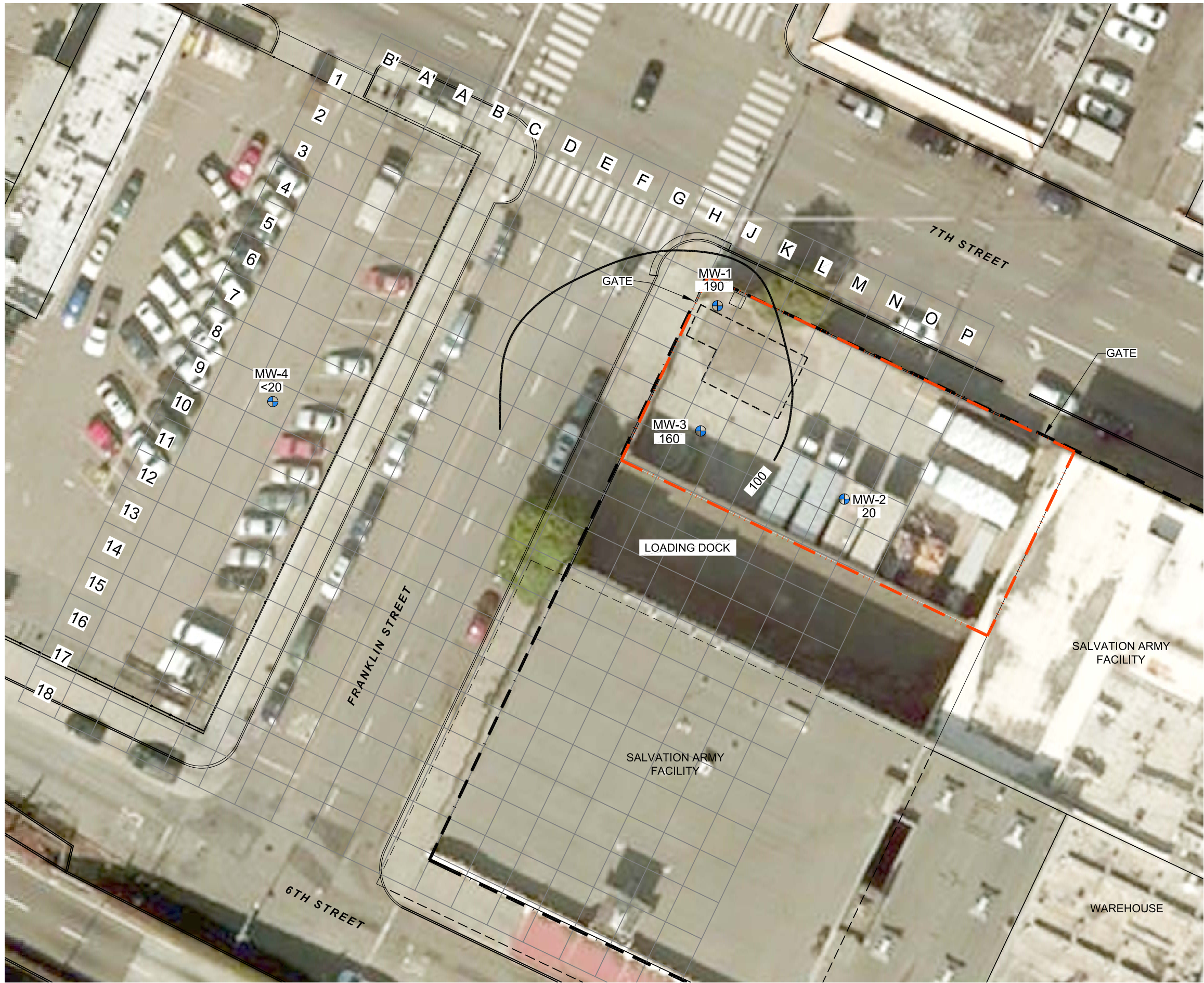
MTBE in GROUNDWATER - FEBRUARY 13, 2017

THE SALVATION ARMY
601 WEBSTER STREET
OAKLAND, CA

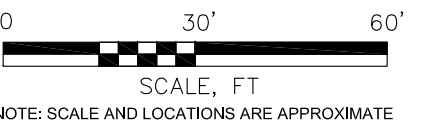
PROJECT NUMBER: Z05400006
APPROVED BY: M. SONKE
DATE: 3-20-17
DRAWN BY: TH

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FIGURE
6



- LEGEND**
- APPROXIMATE FACILITY BOUNDARY
 - FORMER UST
 - FORMER EXCAVATION
 - TRUCK ENCLOSURE AREA
 - ⊕ MONITORING WELL LOCATION
 - 190 NAPHTHALENE ISOCONCENTRATION (ug/L)
 - NAPHTHALENE ISOCONCENTRATION LINE



NAPHTHALENE in GROUNDWATER - FEBRUARY 13, 2017

THE SALVATION ARMY
601 WEBSTER STREET
OAKLAND, CA

PROJECT NUMBER: Z054000006	DATE: 3-20-17	FIGURE 7
APPROVED BY: M. SONKE	DRAWN BY: TH	

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BUILDING SERVICES • MATERIALS TESTING

1117 Lone Palm Avenue, Ste. 201
Modesto, California 95351
Ph: (209) 579-2221 *** Fax: (209) 579-2225



FIGURE 8
Subslab Soil Gas Sampling Point Locations
 THE SALVATION ARMY
 601 WEBSTER STREET
 OAKLAND, CALIFORNIA



PROJECT NUMBER: 054.25026.0001

DESIGNED BY: MDS

APPROVED BY: JH

DATE: 8-14-14

REVIEWED BY: MDS

DRAWN BY: DAW

SCALE: 1" = 30'

APPENDICES



Appendix A

**Bibliography including
Historical Work ATC Work
products**



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Appendix B

ATC's Standard Field Procedures for Groundwater Monitoring, Sampling, and Laboratory Analysis





ATC Group Services

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

ATC will notify ACEH a minimum of 72 hours in advance of commencing fieldwork.

The historical monitoring and analytical data of each monitoring well shall be reviewed prior to performing monitoring activities to determine the order in which the wells will be monitored (i.e. lowest concentrations to highest concentrations). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to groundwater sample collection, the locking well caps will be removed to let the pressure inside the well equilibrate with atmospheric pressure for approximately 20 to 30 minutes. If any of the wells are likely to contain phase separated hydrocarbons aka non-aqueous phase liquid (NAPL), an electronic interface probe will be used to detect the presence, and measure the thickness if the layer, if present. If NAPL is present, a bailer cut will be retrieved, the bailer cut photographed for confirmation, and the well will not be sampled. To prevent cross-contamination, monitoring equipment that comes in contact with groundwater will be scrubbed with a solution of Alconox® detergent and rinsed with rinsate water prior to use in each well.

Both the static groundwater level and total depth of the well will be measured from a reference point on the top of the well casing and recorded. Fluid measurements will be recorded to the nearest 0.01-foot. The static groundwater level and total depth of the well will then be used to calculate the total volume of water in the well.

Prior to the collection of groundwater samples, a minimum of three well volumes (casing and sand pack) will be purged from each well using a 2-inch Grundfos® submersible pump or a disposable polyethylene bailer. During purging, periodic measurements of temperature, pH, and specific electrical conductivity will be measured at casing volume multiples. When three successive stabilized readings are obtained, the well will be sampled. If the well is low yielding and is pumped or bailed dry, the well will be allowed to recover at least 80% of the static groundwater level. If the well does not recover 80% within a 24-hour period, a sample will be collected and recovery noted on the Groundwater Sampling Log.

Groundwater samples will be collected from the well using a disposable polyethylene bailer. Each sample will be collected in laboratory certified clean 40-milliliter volatile organic analysis (VOA) vials and 1-liter glass bottles. Preservatives will be pre-added by the laboratory as appropriate for the analyses selected. Each VOA vial will be filled completely with sample to eliminate headspace and create a positive meniscus. Each VOA vial will be capped with a convex Teflon® septa. Each vial will be observed to ensure that no air bubbles are present within the vial.

Samples will be marked for identification, placed in a cooler chilled with ice, and transported to a State-certified laboratory for analyses. Chain-of-custody records will be maintained and accompany samples to the analytical laboratory. Groundwater purged from the well will be stored on-site in 55-gallon drums pending proper disposal.

LABORATORY ANALYSES OF COLLECTED GROUND WATER SAMPLES

All soil and groundwater samples will be analyzed as follows:

EPA Method 8015M	EPA Method 200.8.
Total Petroleum Hydrocarbons as Gasoline	Total organic lead
Total Petroleum Hydrocarbons as Diesel (TPHd)	
EPA Method 8260B	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)	Tertiary Amyl Methyl Ether (TAME)
Methyl Tertiary-Butyl Ether (MTBE)	1,2-Dichloroethane (1,2-DCA)
Tertiary Butyl Alcohol (TBA)	Ethyl Dibromide (EDB)
Di-Isopropyl Ether (DIPE)	Naphthalene ¹
Ethyl Tertiary Butyl Ether (ETBE)	

¹ Soil samples collected from the upper 10 feet of the vadose zone are to be analyzed for naphthalene to supply data used in the Direct Contact to Outdoor Air Exposure evaluation of the LTCP.

MANAGEMENT OF INVESTIGATION DERIVED WASTE

All investigative derived wastes (IDW) including soil cuttings, wash water, decontamination rinsate water, and purge water will be contained in Department of Transportation (DOT) approved 55-gallon drums. The drums will be labeled as non-hazardous waste and will be temporarily staged onsite pending laboratory results. Disposition of the IDW will be conducted by an appropriate waste disposal subcontractor and will be managed in accordance with State and local guidelines.

Appendix C

Groundwater Sampling Logs



Trace = Continuous, non-measurable thickness of LNAPL.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Feb-16

ATC Branch: Modesto, Ca

Date: 02/13/17

Page 1 of 1

ATC Representative(s): Alex Flores

Project: The Salvation Army ARC

Location: 601 Webster Street, Oakland CA

Contact Information: Mike Sonke

Project No: Z054000006

Task No: 01

Well ID: MW- /

Contractor:

Weather: Cloudy

Temperature: 54°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101/242429 223605

Interface Probe (Model/ID): N/A

Water Quality Meter (Model/ID): YSI 556 115K05

Decontamination Method: Alconox and risate water

Purging Method: ☐ PVC Bailer ☒ Disp. Bailer ☐ Submersible Pump ☐ Centrifugal Pump Other: ☐3 Well Volumes ☒ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☒ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC 11.67 x CM 0.16 = 1.87 (CV)(gal) x 3.0 CV (gal) = 5.60 PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.72

Depth to Water (DTW)(feet): 18.05

Water Column (WC)(feet): 11.67

LNAPL Thickness (ft):

Purging Start Time:

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	pH (± 0.1)	Specific Cond. (mS/cm) (± 5%)	Temp (°C) (± 1°)	Dissolved Oxygen (mg/L) (± 10%)	ORP (mV) (± 10 mV)	Comment
10/13	18.05	0.5	6.82	1.137	19.83			Begin hand bailing
10/16	—	2.4	6.86	1.165	20.14			Clear H ₂ O
10/20	—	4.3	6.87	1.041	20.41			gas odor.
10/23	19.28	6.2	6.89	1.012	20.63			Traces light grayish C
								Stop.
11/25	18.07							

Sample Data

Sample ID: MW- /	Time of Sample: 11/25	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
Glass, 40mL, 2		No	HCl	TPHg EPA 8260B
Glass, 40mL, 2		No	HCl	BTEX, Oxy's 5
See chain of custody for complete lab analysis				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 1.23	Approximate Flow Rate (GPM): 0.62
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 99.8 @ sample time
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments:

6.2 gallons purged.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Feb-16

ATC Branch: Modesto, Ca

Date: 02/13/17

Page 1 of 1

ATC Representative(s): Alex Flores

Project: The Salvation Army ARC

Location: 601 Webster Street, Oakland CA

Contact Information: Mike Sonke

Project No: Z054000006

Task No: 01

Well ID: MW- 2

Contractor:

Weather: Cloudy

Temperature: 53°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101/ 242129 223605

Interface Probe (Model/ID): N/A

Water Quality Meter (Model/ID): YSI 556 11505

Decontamination Method: Alconox and risate water

Purging Method: ☐ PVC Bailer ☒ Disp. Bailer ☐ Submersible Pump ☐ Centrifugal Pump Other: ☐3 Well Volumes ☒ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☒ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC 13.47 x CM 0.16 = 2.155 (CV)(gal) x 3.0 CV (gal) = 6.47 PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.82

Depth to Water (DTW)(feet): 16.35

Water Column (WC)(feet): 13.47

LNAPL Thickness (ft):

Purging Start Time: 0910

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	pH (± 0.1)	Specific Cond. (mS/cm) (± 5%)	Temp (°C) (± 1°)	Dissolved Oxygen (mg/L) (± 10%)	ORP (mV) (± 10 mV)	Comment
0910	16.35	0.5	6.77	1.268	17.27			Begin hand boiling
0914	—	2.7	6.82	1.321	18.59			Clear H ₂ O.
0917	—	4.9	6.86	1.303	19.10			Slight gas odor
0920	18.11	7.0	6.88	1.289	19.24			light brownish HS
								Stop.
1110	16.37							

Sample Data

Sample ID: MW- 2	Time of Sample: 1110	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
Glass, 40mL, 2		No	HCl	TPHg EPA 8260B
Glass, 40mL, 2		No	HCl	BTEX, Oxy's 5
See chain of custody for complete lab analysis				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 1.76	Approximate Flow Rate (GPM): 0.70
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 86.93
Purge Water Disposition (Attach Drum Inventory Log - FLD 108): 99.8% @ sample time.	
Depth to water @ sample time = 16.37	
Comments:	



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Feb-16

ATC Branch: Modesto, Ca

Date: 02/13/17

Page 1 of 1

ATC Representative(s): Alex Flores

Project: The Salvation Army ARC

Location: 601 Webster Street, Oakland CA

Contact Information: Mike Sonke

Project No: Z054000006

Task No: 01

Well ID: MW-3

Contractor:

Weather: Cloudy

Temperature: 54°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101/ 212129 223605

Interface Probe (Model/ID): N/A

Water Quality Meter (Model/ID): YSI 556 115K05

Decontamination Method: Alconox and risate water

Purging Method: ☐ PVC Bailer ☒ Disp. Bailer ☐ Submersible Pump ☐ Centrifugal Pump Other: ☐3 Well Volumes ☒ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☒ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): WC 13.15 x CM 0.16 = 2.104 (CV)_(gal) x 3.0 CV_(gal) = 6.32 PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.75

Depth to Water (DTW)(feet): 16.60

Water Column (WC)(feet): 13.15

LNAPL Thickness (ft):

Purging Start Time: 1045

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	pH (± 0.1)	Specific Cond. (mS/cm) (± 5%)	Temp (°C) (± 1°)	Dissolved Oxygen (mg/L) (± 10%)	ORP (mV) (± 10 mV)	Comment
1045	16.60	0.5	6.76	1.003	19.37			Begin hand bailing
1048	—	2.6	6.81	1.029	19.70			Clear H ₂ O, slight sheen
1052	—	4.7	6.86	1.001	19.85			light grayish H ₂ O
1055	20.73	6.8	6.90	0.987	20.16			Stop
1215	16.61							

Sample Data

Sample ID: MW-3	Time of Sample: 1215	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
Glass, 40mL, 2		No	HCl	TPHg EPA 8260B
Glass, 40mL, 2		No	HCl	BTEX, Oxy's 5
See chain of custody for complete lab analysis				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 4.13	Approximate Flow Rate (GPM): 0.68
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 99.9 @ sample time.
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments: 6.8 gallons purged.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Feb-16

ATC Branch: Modesto, Ca

Date: 02/13/17

Page 1 of 1

ATC Representative(s): Alex Flores

Project: The Salvation Army ARC

Location: 601 Webster Street, Oakland CA

Contact Information: Mike Sonke

Project No: Z054000006

Task No: 01

Well ID: MW- 4

Contractor:

Weather: Cloudy

Temperature: 53°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Solinst 101/ 242129 223605

Interface Probe (Model/ID): N/A

Water Quality Meter (Model/ID): YSI 556 115K05

Decontamination Method: Alconox and risate water

Purging Method: ☐ PVC Bailer ☒ Disp. Bailer ☐ Submersible Pump ☐ Centrifugal Pump Other: ☐3 Well Volumes ☒ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☒ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV): 5.73
WC 11.93 x CM 0.16 = 1.91 (CV)(gal) x 3.0 CV (gal) = PV

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 29.73

Depth to Water (DTW)(feet): 17.80

Water Column (WC)(feet): 11.93

LNAPL Thickness (ft):

Purging Start Time: 0941

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	pH (± 0.1)	Specific Cond. (mS/cm) (± 5%)	Temp (°C) (± 1°)	Dissolved Oxygen (mg/L) (± 10%)	ORP (mV) (± 10 mV)	Comment
0941	17.80	0.5	6.83	0.867	19.21			Begin hand bailing
0945	—	2.5	6.86	0.902	20.17			clear H ₂ O.
0948	—	4.5	6.90	0.893	20.44			light green olive
0951	19.66	6.5	6.92	0.905	20.61			slight gas odor
								stop
1150	17.81							

Sample Data

Sample ID: MW- 4	Time of Sample: 1150	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
Glass, 40mL, 2		No	HCl	TPHg EPA 8260B
Glass, 40mL, 2		No	HCl	BTEX, Oxy's 5
See chain of custody for complete lab analysis				

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 1.84	Approximate Flow Rate (GPM): 0.65
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 99.9 @ Sample time.
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments:

6.5 gallons purged

1220 Quarry Lane

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sampler: Alex Flores

Sample
Specific
Notes:

Preservation Used: 1= Ice, 2= HCl; 3= H₂SO₄; 4=HNO₃; 5=NaOH; 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Fuel Oxygenates: ETBE, DIPE, MTBE, TBA and TAME, 1,2 DCA and EDB.

Alex Faren

Company: ATC Group S.

Date/Time: 2/14/17 0825

Received by:

Company:	TK
----------	----

Date/Time: 2/14/17 0825

Relinquished by:

Company:

Date/Time:

Received by:

Company:

Date/Time:



Field Report

FLD-100

Revision 0.0

Feb-16

ATC Branch: Modesto, CA

Date: 02/3/17

Page 1 of 1

ATC Representative(s): Alex Flores

Project: The Salvation Army ARC

Role: Technician

Location: 601 Webster Street, Oakland, CA

Contact Information: Mike Sonke

Project No: Z054000006

Task No: 01

Scope of Work:

Weather: cloudy

Temperature: 52°F

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor:

Time:

Comments:

0755

On site - Check in with Clemence. Request Metal bin removal - MW-2 below bin.

Opened up all wells but MW-2. Let gw equilibrate. Removed HydroSkimmer from MW-3 ^{NO} NAPL. Set up eq. decon - Alconox & rinsate water pH meter calibration.

0828

Opened up MW-2 Let gw equilibrate.

0848

Begin gauging: MW-4, 1, 2 & 3.

0920

Begin purging: MW-2, 4, 1 & 3. Hand bailed all wells ^{48"} disp bailer. Sample with disposable bailers = 48" disp bailer. Sample for: TPH_g, TPH_d, BTEX, Oxygenates, Naphthalene & Organic Pb Spec. Samples to Test America Labs.

Contained well purged water in a 55g drum. Labeled drum. Locate shallow vapor points in basement. BSS-3, 2 & 1. Evacuated flooded areas around vapor points. prior to sample collection. Sample vapor points. See H&P chain of custody for lab analysis.

1600

left site.

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	Unit Inspection: Pass / Fail	
meter type: YSI 556	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	60
Pre / Post		6.98 / 7.00	3.99 / 4.00	1.405 / 1.413		Screen / Casing:	OK
Calibration Solution Expiration Date: 09/2017						Cable Unit Serial No.: 15K05	
						Handheld Unit Serial No.: 11L100232	
Copies To: Mike Sonke						Project Manager: Mike Sonke.	
						Reviewed By:	

Appendix D

Laboratory Analytical Data Report and Chain of Custody Documents Monitoring Well Samples



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-77663-1

Client Project/Site: Salvation Army

Revision: 1

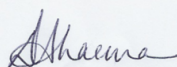
For:

ATC Group Services LLC.

701 University Avenue, Suite 200

Sacramento, California 95825

Attn: Mr. Gabe Stivala



Authorized for release by:

3/9/2017 11:26:30 AM

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Job ID: 720-77663-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-77663-1

Comments

No additional comments.

Receipt

The samples were received on 2/14/2017 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

GC/MS VOA

Method 8260B: Reanalysis of the following sample was performed outside of the analytical holding time due to the original analysis was over diluted : MW-4 (720-77663-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-1

Lab Sample ID: 720-77663-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	700		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Benzene	6700		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Ethylbenzene	760		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Toluene	6100		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	4100		50		ug/L	50			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	29000		2500		ug/L	50			8260B/CA_LUFT MS	Total/NA
1,2-DCA	28		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Naphthalene	190		50		ug/L	50			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	870		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	46		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	130		50		ug/L	50			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	240		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
1,2,3-Trimethylbenzene	230		25		ug/L	50			8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	1900		50		ug/L	1			8015B	Total/NA
Diesel Range Organics [C10-C28]	500		50		ug/L	1			8015B	Silica Gel Cleanup

Client Sample ID: MW-2

Lab Sample ID: 720-77663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	440		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Ethylbenzene	46		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Toluene	490		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	410		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2700		500		ug/L	10			8260B/CA_LUFT MS	Total/NA
Naphthalene	20		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	130		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	36		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
1,2,3-Trimethylbenzene	24		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	540		51		ug/L	1			8015B	Total/NA
Diesel Range Organics [C10-C28]	220		51		ug/L	1			8015B	Silica Gel Cleanup

Client Sample ID: MW-3

Lab Sample ID: 720-77663-3

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-3 (Continued)

Lab Sample ID: 720-77663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	38		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Benzene	3400		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	320		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Toluene	2600		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2700		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	16000		2500		ug/L	50		8260B/CA_LUFT MS	Total/NA
Naphthalene	160		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	790		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	46		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	100		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	200		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,2,3-Trimethylbenzene	190		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	1900		50		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	690		50		ug/L	1		8015B	Silica Gel Cleanup

Client Sample ID: MW-4

Lab Sample ID: 720-77663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1000	H	10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	37	H	10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Toluene	280	H	10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	150	H	20		ug/L	20		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	4700	H	1000		ug/L	20		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	14	H	10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	13	H	10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	670		52		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	240		52		ug/L	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-1

Lab Sample ID: 720-77663-1

Date Collected: 02/13/17 11:12

Matrix: Water

Date Received: 02/14/17 09:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	700		25		ug/L			02/25/17 05:17	50
Benzene	6700		25		ug/L			02/25/17 05:17	50
Ethylbenzene	760		25		ug/L			02/25/17 05:17	50
Toluene	6100		25		ug/L			02/25/17 05:17	50
Xylenes, Total	4100		50		ug/L			02/25/17 05:17	50
Gasoline Range Organics (GRO)	29000		2500		ug/L			02/25/17 05:17	50
-C5-C12									
TBA	ND		1000		ug/L			02/25/17 05:17	50
DIPE	ND		25		ug/L			02/25/17 05:17	50
TAME	ND		25		ug/L			02/25/17 05:17	50
Ethyl t-butyl ether	ND		25		ug/L			02/25/17 05:17	50
1,2-DCA	28		25		ug/L			02/25/17 05:17	50
Naphthalene	190		50		ug/L			02/25/17 05:17	50
EDB	ND		25		ug/L			02/25/17 05:17	50
2-Nitropropane	ND		500		ug/L			02/25/17 05:17	50
1,1,1-Trichloroethane	ND		25		ug/L			02/25/17 05:17	50
cis-1,3-Dichloropropene	ND		25		ug/L			02/25/17 05:17	50
Carbon disulfide	ND		250		ug/L			02/25/17 05:17	50
Chlorobromomethane	ND		50		ug/L			02/25/17 05:17	50
Bromoform	ND		50		ug/L			02/25/17 05:17	50
Tetrachloroethene	ND		25		ug/L			02/25/17 05:17	50
1,1-Dichloroethane	ND		25		ug/L			02/25/17 05:17	50
1,2-Dichloropropane	ND		25		ug/L			02/25/17 05:17	50
1,1,2-Trichloroethane	ND		25		ug/L			02/25/17 05:17	50
Acetone	ND		2500		ug/L			02/25/17 05:17	50
Dichlorodifluoromethane	ND *		25		ug/L			02/25/17 05:17	50
4-Methyl-2-pentanone (MIBK)	ND		2500		ug/L			02/25/17 05:17	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			02/25/17 05:17	50
Methylene Chloride	ND		250		ug/L			02/25/17 05:17	50
Hexachlorobutadiene	ND		50		ug/L			02/25/17 05:17	50
Chloromethane	ND		50		ug/L			02/25/17 05:17	50
1,2,4-Trimethylbenzene	870		25		ug/L			02/25/17 05:17	50
Bromomethane	ND		50		ug/L			02/25/17 05:17	50
2-Chlorotoluene	ND		25		ug/L			02/25/17 05:17	50
Chlorodibromomethane	ND		25		ug/L			02/25/17 05:17	50
Dibromomethane	ND		25		ug/L			02/25/17 05:17	50
1,1-Dichloropropene	ND		25		ug/L			02/25/17 05:17	50
1,2,4-Trichlorobenzene	ND		50		ug/L			02/25/17 05:17	50
Chlorobenzene	ND		25		ug/L			02/25/17 05:17	50
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			02/25/17 05:17	50
1,3-Dichlorobenzene	ND		25		ug/L			02/25/17 05:17	50
Styrene	ND		25		ug/L			02/25/17 05:17	50
4-Chlorotoluene	ND		25		ug/L			02/25/17 05:17	50
trans-1,2-Dichloroethene	ND		25		ug/L			02/25/17 05:17	50
Bromobenzene	ND		50		ug/L			02/25/17 05:17	50
1,2,3-Trichlorobenzene	ND		50		ug/L			02/25/17 05:17	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			02/25/17 05:17	50
Chloroethane	ND		50		ug/L			02/25/17 05:17	50
1,1-Dichloroethene	ND		25		ug/L			02/25/17 05:17	50

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-1

Lab Sample ID: 720-77663-1

Date Collected: 02/13/17 11:12

Matrix: Water

Date Received: 02/14/17 09:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		25		ug/L			02/25/17 05:17	50
Trichloroethene	ND		25		ug/L			02/25/17 05:17	50
1,1,1,2-Tetrachloroethane	ND		25		ug/L			02/25/17 05:17	50
sec-Butylbenzene	ND		50		ug/L			02/25/17 05:17	50
2-Hexanone	ND		2500		ug/L			02/25/17 05:17	50
2-Butanone (MEK)	ND		2500		ug/L			02/25/17 05:17	50
Isopropylbenzene	46		25		ug/L			02/25/17 05:17	50
2,2-Dichloropropane	ND		25		ug/L			02/25/17 05:17	50
N-Propylbenzene	130		50		ug/L			02/25/17 05:17	50
Trichlorofluoromethane	ND		50		ug/L			02/25/17 05:17	50
1,3,5-Trichlorobenzene	ND		50		ug/L			02/25/17 05:17	50
Isopropyl alcohol	ND		5000		ug/L			02/25/17 05:17	50
4-Isopropyltoluene	ND		50		ug/L			02/25/17 05:17	50
1,2,3-Trichloropropane	ND		25		ug/L			02/25/17 05:17	50
1,3,5-Trimethylbenzene	240		25		ug/L			02/25/17 05:17	50
1,2,3-Trimethylbenzene	230		25		ug/L			02/25/17 05:17	50
trans-1,3-Dichloropropene	ND		25		ug/L			02/25/17 05:17	50
cis-1,2-Dichloroethene	ND		25		ug/L			02/25/17 05:17	50
Chloroform	ND		50		ug/L			02/25/17 05:17	50
Vinyl acetate	ND		500		ug/L			02/25/17 05:17	50
Dichlorofluoromethane	ND		250		ug/L			02/25/17 05:17	50
Vinyl chloride	ND		25		ug/L			02/25/17 05:17	50
tert-Butylbenzene	ND		50		ug/L			02/25/17 05:17	50
Carbon tetrachloride	ND		25		ug/L			02/25/17 05:17	50
1,4-Dichlorobenzene	ND		25		ug/L			02/25/17 05:17	50
1,3-Dichloropropane	ND		50		ug/L			02/25/17 05:17	50
Dichlorobromomethane	ND		25		ug/L			02/25/17 05:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		02/25/17 05:17	50
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		02/25/17 05:17	50
Toluene-d8 (Surr)	104		70 - 130		02/25/17 05:17	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1900		50		ug/L		02/17/17 16:59	02/20/17 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	78		23 - 156	02/17/17 16:59	02/20/17 15:54	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	500		50		ug/L		02/17/17 15:25	02/20/17 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.09		0 - 5	02/17/17 15:25	02/20/17 14:17	1
p-Terphenyl	34		31 - 150	02/17/17 15:25	02/20/17 14:17	1

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-2

Date Collected: 02/13/17 11:10

Date Received: 02/14/17 09:45

Lab Sample ID: 720-77663-2

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/L			02/25/17 05:45	10
Benzene	440		5.0		ug/L			02/25/17 05:45	10
Ethylbenzene	46		5.0		ug/L			02/25/17 05:45	10
Toluene	490		5.0		ug/L			02/25/17 05:45	10
Xylenes, Total	410		10		ug/L			02/25/17 05:45	10
Gasoline Range Organics (GRO)	2700		500		ug/L			02/25/17 05:45	10
-C5-C12									
TBA	ND		200		ug/L			02/25/17 05:45	10
DIPE	ND		5.0		ug/L			02/25/17 05:45	10
TAME	ND		5.0		ug/L			02/25/17 05:45	10
Ethyl t-butyl ether	ND		5.0		ug/L			02/25/17 05:45	10
1,2-DCA	ND		5.0		ug/L			02/25/17 05:45	10
Naphthalene	20		10		ug/L			02/25/17 05:45	10
EDB	ND		5.0		ug/L			02/25/17 05:45	10
2-Nitropropane	ND		100		ug/L			02/25/17 05:45	10
1,1,1-Trichloroethane	ND		5.0		ug/L			02/25/17 05:45	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			02/25/17 05:45	10
Carbon disulfide	ND		50		ug/L			02/25/17 05:45	10
Chlorobromomethane	ND		10		ug/L			02/25/17 05:45	10
Bromoform	ND		10		ug/L			02/25/17 05:45	10
Tetrachloroethene	ND		5.0		ug/L			02/25/17 05:45	10
1,1-Dichloroethane	ND		5.0		ug/L			02/25/17 05:45	10
1,2-Dichloropropane	ND		5.0		ug/L			02/25/17 05:45	10
1,1,2-Trichloroethane	ND		5.0		ug/L			02/25/17 05:45	10
Acetone	ND		500		ug/L			02/25/17 05:45	10
Dichlorodifluoromethane	ND *		5.0		ug/L			02/25/17 05:45	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			02/25/17 05:45	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			02/25/17 05:45	10
Methylene Chloride	ND		50		ug/L			02/25/17 05:45	10
Hexachlorobutadiene	ND		10		ug/L			02/25/17 05:45	10
Chloromethane	ND		10		ug/L			02/25/17 05:45	10
1,2,4-Trimethylbenzene	130		5.0		ug/L			02/25/17 05:45	10
Bromomethane	ND		10		ug/L			02/25/17 05:45	10
2-Chlorotoluene	ND		5.0		ug/L			02/25/17 05:45	10
Chlorodibromomethane	ND		5.0		ug/L			02/25/17 05:45	10
Dibromomethane	ND		5.0		ug/L			02/25/17 05:45	10
1,1-Dichloropropene	ND		5.0		ug/L			02/25/17 05:45	10
1,2,4-Trichlorobenzene	ND		10		ug/L			02/25/17 05:45	10
Chlorobenzene	ND		5.0		ug/L			02/25/17 05:45	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			02/25/17 05:45	10
1,3-Dichlorobenzene	ND		5.0		ug/L			02/25/17 05:45	10
Styrene	ND		5.0		ug/L			02/25/17 05:45	10
4-Chlorotoluene	ND		5.0		ug/L			02/25/17 05:45	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/25/17 05:45	10
Bromobenzene	ND		10		ug/L			02/25/17 05:45	10
1,2,3-Trichlorobenzene	ND		10		ug/L			02/25/17 05:45	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			02/25/17 05:45	10
Chloroethane	ND		10		ug/L			02/25/17 05:45	10
1,1-Dichloroethene	ND		5.0		ug/L			02/25/17 05:45	10

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-2

Lab Sample ID: 720-77663-2

Date Collected: 02/13/17 11:10

Matrix: Water

Date Received: 02/14/17 09:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0		ug/L			02/25/17 05:45	10
Trichloroethene	ND		5.0		ug/L			02/25/17 05:45	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/25/17 05:45	10
sec-Butylbenzene	ND		10		ug/L			02/25/17 05:45	10
2-Hexanone	ND		500		ug/L			02/25/17 05:45	10
2-Butanone (MEK)	ND		500		ug/L			02/25/17 05:45	10
Isopropylbenzene	ND		5.0		ug/L			02/25/17 05:45	10
2,2-Dichloropropane	ND		5.0		ug/L			02/25/17 05:45	10
N-Propylbenzene	ND		10		ug/L			02/25/17 05:45	10
Trichlorofluoromethane	ND		10		ug/L			02/25/17 05:45	10
1,3,5-Trichlorobenzene	ND		10		ug/L			02/25/17 05:45	10
Isopropyl alcohol	ND		1000		ug/L			02/25/17 05:45	10
4-Isopropyltoluene	ND		10		ug/L			02/25/17 05:45	10
1,2,3-Trichloropropane	ND		5.0		ug/L			02/25/17 05:45	10
1,3,5-Trimethylbenzene	36		5.0		ug/L			02/25/17 05:45	10
1,2,3-Trimethylbenzene	24		5.0		ug/L			02/25/17 05:45	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			02/25/17 05:45	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/25/17 05:45	10
Chloroform	ND		10		ug/L			02/25/17 05:45	10
Vinyl acetate	ND		100		ug/L			02/25/17 05:45	10
Dichlorofluoromethane	ND		50		ug/L			02/25/17 05:45	10
Vinyl chloride	ND		5.0		ug/L			02/25/17 05:45	10
tert-Butylbenzene	ND		10		ug/L			02/25/17 05:45	10
Carbon tetrachloride	ND		5.0		ug/L			02/25/17 05:45	10
1,4-Dichlorobenzene	ND		5.0		ug/L			02/25/17 05:45	10
1,3-Dichloropropane	ND		10		ug/L			02/25/17 05:45	10
Dichlorobromomethane	ND		5.0		ug/L			02/25/17 05:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		02/25/17 05:45	10
1,2-Dichloroethane-d4 (Surr)	104		72 - 130		02/25/17 05:45	10
Toluene-d8 (Surr)	103		70 - 130		02/25/17 05:45	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	540		51		ug/L		02/17/17 16:59	02/20/17 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	82		23 - 156	02/17/17 16:59	02/20/17 16:18	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	220		51		ug/L		02/17/17 15:25	02/20/17 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 5	02/17/17 15:25	02/20/17 14:41	1
p-Terphenyl	33		31 - 150	02/17/17 15:25	02/20/17 14:41	1

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-3

Date Collected: 02/13/17 12:15

Date Received: 02/14/17 09:45

Lab Sample ID: 720-77663-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	38		25		ug/L			02/26/17 00:59	50
Benzene	3400		25		ug/L			02/26/17 00:59	50
Ethylbenzene	320		25		ug/L			02/26/17 00:59	50
Toluene	2600		25		ug/L			02/26/17 00:59	50
Xylenes, Total	2700		50		ug/L			02/26/17 00:59	50
Gasoline Range Organics (GRO)	16000		2500		ug/L			02/26/17 00:59	50
-C5-C12									
TBA	ND		1000		ug/L			02/26/17 00:59	50
DIPE	ND		25		ug/L			02/26/17 00:59	50
TAME	ND		25		ug/L			02/26/17 00:59	50
Ethyl t-butyl ether	ND		25		ug/L			02/26/17 00:59	50
1,2-DCA	ND		25		ug/L			02/26/17 00:59	50
Naphthalene	160		50		ug/L			02/26/17 00:59	50
EDB	ND		25		ug/L			02/26/17 00:59	50
2-Nitropropane	ND		500		ug/L			02/26/17 00:59	50
1,1,1-Trichloroethane	ND		25		ug/L			02/26/17 00:59	50
cis-1,3-Dichloropropene	ND		25		ug/L			02/26/17 00:59	50
Carbon disulfide	ND		250		ug/L			02/26/17 00:59	50
Chlorobromomethane	ND		50		ug/L			02/26/17 00:59	50
Bromoform	ND		50		ug/L			02/26/17 00:59	50
Tetrachloroethene	ND		25		ug/L			02/26/17 00:59	50
1,1-Dichloroethane	ND		25		ug/L			02/26/17 00:59	50
1,2-Dichloropropane	ND		25		ug/L			02/26/17 00:59	50
1,1,2-Trichloroethane	ND		25		ug/L			02/26/17 00:59	50
Acetone	ND		2500		ug/L			02/26/17 00:59	50
Dichlorodifluoromethane	ND		25		ug/L			02/26/17 00:59	50
4-Methyl-2-pentanone (MIBK)	ND		2500		ug/L			02/26/17 00:59	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			02/26/17 00:59	50
Methylene Chloride	ND		250		ug/L			02/26/17 00:59	50
Hexachlorobutadiene	ND		50		ug/L			02/26/17 00:59	50
Chloromethane	ND		50		ug/L			02/26/17 00:59	50
1,2,4-Trimethylbenzene	790		25		ug/L			02/26/17 00:59	50
Bromomethane	ND		50		ug/L			02/26/17 00:59	50
2-Chlorotoluene	ND		25		ug/L			02/26/17 00:59	50
Chlorodibromomethane	ND		25		ug/L			02/26/17 00:59	50
Dibromomethane	ND		25		ug/L			02/26/17 00:59	50
1,1-Dichloropropene	ND		25		ug/L			02/26/17 00:59	50
1,2,4-Trichlorobenzene	ND		50		ug/L			02/26/17 00:59	50
Chlorobenzene	ND		25		ug/L			02/26/17 00:59	50
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			02/26/17 00:59	50
1,3-Dichlorobenzene	ND		25		ug/L			02/26/17 00:59	50
Styrene	ND		25		ug/L			02/26/17 00:59	50
4-Chlorotoluene	ND		25		ug/L			02/26/17 00:59	50
trans-1,2-Dichloroethene	ND		25		ug/L			02/26/17 00:59	50
Bromobenzene	ND		50		ug/L			02/26/17 00:59	50
1,2,3-Trichlorobenzene	ND		50		ug/L			02/26/17 00:59	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			02/26/17 00:59	50
Chloroethane	ND		50		ug/L			02/26/17 00:59	50
1,1-Dichloroethene	ND		25		ug/L			02/26/17 00:59	50

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-3

Lab Sample ID: 720-77663-3

Date Collected: 02/13/17 12:15

Matrix: Water

Date Received: 02/14/17 09:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		25		ug/L			02/26/17 00:59	50
Trichloroethene	ND		25		ug/L			02/26/17 00:59	50
1,1,1,2-Tetrachloroethane	ND		25		ug/L			02/26/17 00:59	50
sec-Butylbenzene	ND		50		ug/L			02/26/17 00:59	50
2-Hexanone	ND		2500		ug/L			02/26/17 00:59	50
2-Butanone (MEK)	ND		2500		ug/L			02/26/17 00:59	50
Isopropylbenzene	46		25		ug/L			02/26/17 00:59	50
2,2-Dichloropropane	ND		25		ug/L			02/26/17 00:59	50
N-Propylbenzene	100		50		ug/L			02/26/17 00:59	50
Trichlorofluoromethane	ND		50		ug/L			02/26/17 00:59	50
1,3,5-Trichlorobenzene	ND		50		ug/L			02/26/17 00:59	50
Isopropyl alcohol	ND		5000		ug/L			02/26/17 00:59	50
4-Isopropyltoluene	ND		50		ug/L			02/26/17 00:59	50
1,2,3-Trichloropropane	ND		25		ug/L			02/26/17 00:59	50
1,3,5-Trimethylbenzene	200		25		ug/L			02/26/17 00:59	50
1,2,3-Trimethylbenzene	190		25		ug/L			02/26/17 00:59	50
trans-1,3-Dichloropropene	ND		25		ug/L			02/26/17 00:59	50
cis-1,2-Dichloroethene	ND		25		ug/L			02/26/17 00:59	50
Chloroform	ND		50		ug/L			02/26/17 00:59	50
Vinyl acetate	ND		500		ug/L			02/26/17 00:59	50
Dichlorofluoromethane	ND		250		ug/L			02/26/17 00:59	50
Vinyl chloride	ND		25		ug/L			02/26/17 00:59	50
tert-Butylbenzene	ND		50		ug/L			02/26/17 00:59	50
Carbon tetrachloride	ND		25		ug/L			02/26/17 00:59	50
1,4-Dichlorobenzene	ND		25		ug/L			02/26/17 00:59	50
1,3-Dichloropropane	ND		50		ug/L			02/26/17 00:59	50
Dichlorobromomethane	ND		25		ug/L			02/26/17 00:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		02/26/17 00:59	50
1,2-Dichloroethane-d4 (Surr)	98		72 - 130		02/26/17 00:59	50
Toluene-d8 (Surr)	102		70 - 130		02/26/17 00:59	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1900		50		ug/L		02/17/17 16:59	02/20/17 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	78		23 - 156	02/17/17 16:59	02/20/17 16:43	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	690		50		ug/L		02/17/17 15:25	02/20/17 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5	02/17/17 15:25	02/20/17 15:05	1
p-Terphenyl	36		31 - 150	02/17/17 15:25	02/20/17 15:05	1

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-4

Lab Sample ID: 720-77663-4

Date Collected: 02/13/17 11:50

Matrix: Water

Date Received: 02/14/17 09:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	H	10		ug/L			03/01/17 16:35	20
Benzene	1000	H	10		ug/L			03/01/17 16:35	20
Ethylbenzene	37	H	10		ug/L			03/01/17 16:35	20
Toluene	280	H	10		ug/L			03/01/17 16:35	20
Xylenes, Total	150	H	20		ug/L			03/01/17 16:35	20
Gasoline Range Organics (GRO)	4700	H	1000		ug/L			03/01/17 16:35	20
-C5-C12									
TBA	ND	H	400		ug/L			03/01/17 16:35	20
DIPE	ND	H	10		ug/L			03/01/17 16:35	20
TAME	ND	H	10		ug/L			03/01/17 16:35	20
Ethyl t-butyl ether	ND	H	10		ug/L			03/01/17 16:35	20
1,2-DCA	ND	H	10		ug/L			03/01/17 16:35	20
Naphthalene	ND	H	20		ug/L			03/01/17 16:35	20
EDB	ND	H	10		ug/L			03/01/17 16:35	20
2-Nitropropane	ND	H	200		ug/L			03/01/17 16:35	20
1,1,1-Trichloroethane	ND	H	10		ug/L			03/01/17 16:35	20
cis-1,3-Dichloropropene	ND	H	10		ug/L			03/01/17 16:35	20
Carbon disulfide	ND	H	100		ug/L			03/01/17 16:35	20
Chlorobromomethane	ND	H	20		ug/L			03/01/17 16:35	20
Bromoform	ND	H	20		ug/L			03/01/17 16:35	20
Tetrachloroethene	ND	H	10		ug/L			03/01/17 16:35	20
1,1-Dichloroethane	ND	H	10		ug/L			03/01/17 16:35	20
1,2-Dichloropropane	ND	H	10		ug/L			03/01/17 16:35	20
1,1,2-Trichloroethane	ND	H	10		ug/L			03/01/17 16:35	20
Acetone	ND	H	1000		ug/L			03/01/17 16:35	20
Dichlorodifluoromethane	ND	H *	10		ug/L			03/01/17 16:35	20
4-Methyl-2-pentanone (MIBK)	ND	H	1000		ug/L			03/01/17 16:35	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	10		ug/L			03/01/17 16:35	20
Methylene Chloride	ND	H	100		ug/L			03/01/17 16:35	20
Hexachlorobutadiene	ND	H	20		ug/L			03/01/17 16:35	20
Chloromethane	ND	H	20		ug/L			03/01/17 16:35	20
1,2,4-Trimethylbenzene	14	H	10		ug/L			03/01/17 16:35	20
Bromomethane	ND	H	20		ug/L			03/01/17 16:35	20
2-Chlorotoluene	ND	H	10		ug/L			03/01/17 16:35	20
Chlorodibromomethane	ND	H	10		ug/L			03/01/17 16:35	20
Dibromomethane	ND	H	10		ug/L			03/01/17 16:35	20
1,1-Dichloropropene	ND	H	10		ug/L			03/01/17 16:35	20
1,2,4-Trichlorobenzene	ND	H	20		ug/L			03/01/17 16:35	20
Chlorobenzene	ND	H	10		ug/L			03/01/17 16:35	20
1,2-Dibromo-3-Chloropropane	ND	H	20		ug/L			03/01/17 16:35	20
1,3-Dichlorobenzene	ND	H	10		ug/L			03/01/17 16:35	20
Styrene	ND	H	10		ug/L			03/01/17 16:35	20
4-Chlorotoluene	ND	H	10		ug/L			03/01/17 16:35	20
trans-1,2-Dichloroethene	ND	H	10		ug/L			03/01/17 16:35	20
Bromobenzene	ND	H	20		ug/L			03/01/17 16:35	20
1,2,3-Trichlorobenzene	ND	H	20		ug/L			03/01/17 16:35	20
1,1,2,2-Tetrachloroethane	ND	H	10		ug/L			03/01/17 16:35	20
Chloroethane	ND	H	20		ug/L			03/01/17 16:35	20
1,1-Dichloroethene	ND	H	10		ug/L			03/01/17 16:35	20

TestAmerica Pleasanton

Client Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-4

Lab Sample ID: 720-77663-4

Date Collected: 02/13/17 11:50

Matrix: Water

Date Received: 02/14/17 09:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND	H	10		ug/L			03/01/17 16:35	20
Trichloroethene	ND	H	10		ug/L			03/01/17 16:35	20
1,1,1,2-Tetrachloroethane	ND	H	10		ug/L			03/01/17 16:35	20
sec-Butylbenzene	ND	H	20		ug/L			03/01/17 16:35	20
2-Hexanone	ND	H	1000		ug/L			03/01/17 16:35	20
2-Butanone (MEK)	ND	H	1000		ug/L			03/01/17 16:35	20
Isopropylbenzene	13	H	10		ug/L			03/01/17 16:35	20
2,2-Dichloropropane	ND	H	10		ug/L			03/01/17 16:35	20
N-Propylbenzene	ND	H	20		ug/L			03/01/17 16:35	20
Trichlorofluoromethane	ND	H	20		ug/L			03/01/17 16:35	20
1,3,5-Trichlorobenzene	ND	H	20		ug/L			03/01/17 16:35	20
Isopropyl alcohol	ND	H	2000		ug/L			03/01/17 16:35	20
4-Isopropyltoluene	ND	H	20		ug/L			03/01/17 16:35	20
1,2,3-Trichloropropane	ND	H	10		ug/L			03/01/17 16:35	20
1,3,5-Trimethylbenzene	ND	H	10		ug/L			03/01/17 16:35	20
1,2,3-Trimethylbenzene	ND	H	10		ug/L			03/01/17 16:35	20
trans-1,3-Dichloropropene	ND	H	10		ug/L			03/01/17 16:35	20
cis-1,2-Dichloroethene	ND	H	10		ug/L			03/01/17 16:35	20
Chloroform	ND	H	20		ug/L			03/01/17 16:35	20
Vinyl acetate	ND	H	200		ug/L			03/01/17 16:35	20
Dichlorofluoromethane	ND	H	100		ug/L			03/01/17 16:35	20
Vinyl chloride	ND	H	10		ug/L			03/01/17 16:35	20
tert-Butylbenzene	ND	H	20		ug/L			03/01/17 16:35	20
Carbon tetrachloride	ND	H	10		ug/L			03/01/17 16:35	20
1,4-Dichlorobenzene	ND	H	10		ug/L			03/01/17 16:35	20
1,3-Dichloropropane	ND	H	20		ug/L			03/01/17 16:35	20
Dichlorobromomethane	ND	H	10		ug/L			03/01/17 16:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		03/01/17 16:35	20
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		03/01/17 16:35	20
Toluene-d8 (Surr)	103		70 - 130		03/01/17 16:35	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	670		52		ug/L		02/17/17 16:59	02/18/17 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	88		23 - 156	02/17/17 16:59	02/18/17 17:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		52		ug/L		02/17/17 15:25	02/20/17 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5	02/17/17 15:25	02/20/17 15:30	1
p-Terphenyl	31		31 - 150	02/17/17 15:25	02/20/17 15:30	1

TestAmerica Pleasanton

Surrogate Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-77663-1	MW-1	97	102	104
720-77663-2	MW-2	98	104	103
720-77663-3	MW-3	100	98	102
720-77663-4	MW-4	100	100	103
LCS 720-218396/7	Lab Control Sample	98	96	102
LCS 720-218396/9	Lab Control Sample	102	101	102
LCS 720-218424/5	Lab Control Sample	101	99	103
LCS 720-218424/7	Lab Control Sample	103	101	102
LCS 720-218566/5	Lab Control Sample	96	95	102
LCS 720-218566/7	Lab Control Sample	98	99	102
LCSD 720-218396/10	Lab Control Sample Dup	101	103	103
LCSD 720-218396/8	Lab Control Sample Dup	101	98	103
LCSD 720-218424/6	Lab Control Sample Dup	100	100	102
LCSD 720-218424/8	Lab Control Sample Dup	102	101	102
LCSD 720-218566/6	Lab Control Sample Dup	96	94	102
LCSD 720-218566/8	Lab Control Sample Dup	97	97	102
MB 720-218396/5	Method Blank	100	102	103
MB 720-218424/9	Method Blank	102	101	103
MB 720-218566/4	Method Blank	96	96	102

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		PTP1 (23-156)	
720-77663-1	MW-1	78	
720-77663-2	MW-2	82	
720-77663-3	MW-3	78	
720-77663-4	MW-4	88	
LCS 720-218049/2-A	Lab Control Sample	100	
LCSD 720-218049/3-A	Lab Control Sample Dup	99	
MB 720-218049/1-A	Method Blank	91	

Surrogate Legend

PTP = p-Terphenyl

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		NDA1 (0-5)	PTP1 (31-150)
720-77663-1	MW-1	0.09	34
720-77663-2	MW-2	0.01	33

TestAmerica Pleasanton

Surrogate Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water

Prep Type: Silica Gel Cleanup

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NDA1 (0-5)	PTP1 (31-150)
720-77663-3	MW-3	0.2	36
720-77663-4	MW-4	0.002	31
LCS 720-218047/2-A	Lab Control Sample		88
LCSD 720-218047/3-A	Lab Control Sample Dup		90
MB 720-218047/1-A	Method Blank	0	80

Surrogate Legend

NDA = Capric Acid (Surr)

PTP = p-Terphenyl

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-218396/5

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/24/17 19:26	1
Benzene	ND		0.50		ug/L			02/24/17 19:26	1
Ethylbenzene	ND		0.50		ug/L			02/24/17 19:26	1
Toluene	ND		0.50		ug/L			02/24/17 19:26	1
Xylenes, Total	ND		1.0		ug/L			02/24/17 19:26	1
Gasoline Range Organics (GRO)	ND		50		ug/L			02/24/17 19:26	1
-C5-C12									
TBA	ND		20		ug/L			02/24/17 19:26	1
DIPE	ND		0.50		ug/L			02/24/17 19:26	1
TAME	ND		0.50		ug/L			02/24/17 19:26	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/24/17 19:26	1
1,2-DCA	ND		0.50		ug/L			02/24/17 19:26	1
Naphthalene	ND		1.0		ug/L			02/24/17 19:26	1
EDB	ND		0.50		ug/L			02/24/17 19:26	1
2-Nitropropane	ND		10		ug/L			02/24/17 19:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/24/17 19:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/24/17 19:26	1
Carbon disulfide	ND		5.0		ug/L			02/24/17 19:26	1
Chlorobromomethane	ND		1.0		ug/L			02/24/17 19:26	1
Bromoform	ND		1.0		ug/L			02/24/17 19:26	1
Tetrachloroethene	ND		0.50		ug/L			02/24/17 19:26	1
1,1-Dichloroethane	ND		0.50		ug/L			02/24/17 19:26	1
1,2-Dichloropropane	ND		0.50		ug/L			02/24/17 19:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/24/17 19:26	1
Acetone	ND		50		ug/L			02/24/17 19:26	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/24/17 19:26	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/24/17 19:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/24/17 19:26	1
Methylene Chloride	ND		5.0		ug/L			02/24/17 19:26	1
Hexachlorobutadiene	ND		1.0		ug/L			02/24/17 19:26	1
Chloromethane	ND		1.0		ug/L			02/24/17 19:26	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/24/17 19:26	1
Bromomethane	ND		1.0		ug/L			02/24/17 19:26	1
2-Chlorotoluene	ND		0.50		ug/L			02/24/17 19:26	1
Chlorodibromomethane	ND		0.50		ug/L			02/24/17 19:26	1
Dibromomethane	ND		0.50		ug/L			02/24/17 19:26	1
1,1-Dichloropropene	ND		0.50		ug/L			02/24/17 19:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/24/17 19:26	1
Chlorobenzene	ND		0.50		ug/L			02/24/17 19:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/24/17 19:26	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/24/17 19:26	1
Styrene	ND		0.50		ug/L			02/24/17 19:26	1
4-Chlorotoluene	ND		0.50		ug/L			02/24/17 19:26	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/24/17 19:26	1
Bromobenzene	ND		1.0		ug/L			02/24/17 19:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/24/17 19:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/24/17 19:26	1
Chloroethane	ND		1.0		ug/L			02/24/17 19:26	1

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-218396/5

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			02/24/17 19:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/24/17 19:26	1
Trichloroethene	ND		0.50		ug/L			02/24/17 19:26	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/24/17 19:26	1
sec-Butylbenzene	ND		1.0		ug/L			02/24/17 19:26	1
2-Hexanone	ND		50		ug/L			02/24/17 19:26	1
2-Butanone (MEK)	ND		50		ug/L			02/24/17 19:26	1
Isopropylbenzene	ND		0.50		ug/L			02/24/17 19:26	1
2,2-Dichloropropane	ND		0.50		ug/L			02/24/17 19:26	1
N-Propylbenzene	ND		1.0		ug/L			02/24/17 19:26	1
Trichlorofluoromethane	ND		1.0		ug/L			02/24/17 19:26	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			02/24/17 19:26	1
Isopropyl alcohol	ND		100		ug/L			02/24/17 19:26	1
4-Isopropyltoluene	ND		1.0		ug/L			02/24/17 19:26	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/24/17 19:26	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/24/17 19:26	1
1,2,3-Trimethylbenzene	ND		0.50		ug/L			02/24/17 19:26	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/24/17 19:26	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/24/17 19:26	1
Chloroform	ND		1.0		ug/L			02/24/17 19:26	1
Vinyl acetate	ND		10		ug/L			02/24/17 19:26	1
Dichlorofluoromethane	ND		5.0		ug/L			02/24/17 19:26	1
Vinyl chloride	ND		0.50		ug/L			02/24/17 19:26	1
tert-Butylbenzene	ND		1.0		ug/L			02/24/17 19:26	1
Carbon tetrachloride	ND		0.50		ug/L			02/24/17 19:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/24/17 19:26	1
1,3-Dichloropropane	ND		1.0		ug/L			02/24/17 19:26	1
Dichlorobromomethane	ND		0.50		ug/L			02/24/17 19:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		02/24/17 19:26	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		02/24/17 19:26	1
Toluene-d8 (Surr)	103		70 - 130		02/24/17 19:26	1

Lab Sample ID: LCS 720-218396/7

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.3		ug/L		101	62 - 130
Benzene	25.0	25.5		ug/L		102	79 - 130
Ethylbenzene	25.0	25.3		ug/L		101	80 - 120
Toluene	25.0	25.9		ug/L		104	78 - 120
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 142
o-Xylene	25.0	25.8		ug/L		103	70 - 130
TBA	250	263		ug/L		105	70 - 130
DIPE	25.0	26.9		ug/L		108	69 - 134
TAME	25.0	27.4		ug/L		110	79 - 130

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218396/7

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl t-butyl ether	25.0	26.6		ug/L		106	70 - 130
1,2-DCA	25.0	25.2		ug/L		101	61 - 132
Naphthalene	25.0	27.6		ug/L		111	50 - 130
EDB	25.0	27.2		ug/L		109	70 - 130
2-Nitropropane	50.0	54.3		ug/L		109	27 - 196
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	70 - 130
cis-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 130
Carbon disulfide	25.0	23.9		ug/L		95	68 - 146
Chlorobromomethane	25.0	27.1		ug/L		109	70 - 130
Bromoform	25.0	27.7		ug/L		111	68 - 136
Tetrachloroethene	25.0	27.9		ug/L		112	70 - 130
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,2-Dichloropropane	25.0	25.6		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
Acetone	125	159		ug/L		128	26 - 180
Dichlorodifluoromethane	25.0	43.1	*	ug/L		172	32 - 158
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	50 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.5		ug/L		110	42 - 162
Methylene Chloride	25.0	24.9		ug/L		100	70 - 147
Hexachlorobutadiene	25.0	26.9		ug/L		108	70 - 130
Chloromethane	25.0	32.6		ug/L		130	52 - 175
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 132
Bromomethane	25.0	29.0		ug/L		116	43 - 151
2-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130
Chlorodibromomethane	25.0	27.9		ug/L		112	70 - 145
Dibromomethane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	29.0		ug/L		116	70 - 136
1,3-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
Styrene	25.0	26.3		ug/L		105	70 - 130
4-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	68 - 130
Bromobenzene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	28.9		ug/L		116	62 - 138
1,1-Dichloroethene	25.0	24.3		ug/L		97	64 - 128
1,2-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130
Trichloroethene	25.0	28.1		ug/L		112	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.2		ug/L		109	70 - 130
sec-Butylbenzene	25.0	27.4		ug/L		110	70 - 134
2-Hexanone	125	141		ug/L		112	60 - 164
2-Butanone (MEK)	125	141		ug/L		113	54 - 153
Isopropylbenzene	25.0	27.1		ug/L		108	70 - 130
2,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 140

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218396/7

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	25.0	26.4		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	31.6		ug/L		126	66 - 132
1,3,5-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130
Isopropyl alcohol	250	280		ug/L		112	66 - 165
4-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichloropropane	25.0	27.6		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130
1,2,3-Trimethylbenzene	25.0	27.5		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 140
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
Chloroform	25.0	25.5		ug/L		102	70 - 130
Vinyl acetate	25.0	23.8		ug/L		95	43 - 163
Dichlorofluoromethane	25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	25.0	32.0		ug/L		128	54 - 135
tert-Butylbenzene	25.0	28.1		ug/L		112	70 - 135
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 146
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCS 720-218396/9

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)	500	460		ug/L		92	71 - 125
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-218396/10

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	500	487		ug/L		97	71 - 125	6	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218396/10

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		72 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 720-218396/8

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.4		ug/L		102	62 - 130	0	20
Benzene	25.0	24.8		ug/L		99	79 - 130	3	20
Ethylbenzene	25.0	24.4		ug/L		97	80 - 120	4	20
Toluene	25.0	24.7		ug/L		99	78 - 120	5	20
m-Xylene & p-Xylene	25.0	24.9		ug/L		100	70 - 142	3	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	3	20
TBA	250	252		ug/L		101	70 - 130	4	20
DIPE	25.0	26.2		ug/L		105	69 - 134	3	20
TAME	25.0	27.5		ug/L		110	79 - 130	0	20
Ethyl t-butyl ether	25.0	26.5		ug/L		106	70 - 130	0	20
1,2-DCA	25.0	24.9		ug/L		100	61 - 132	1	20
Naphthalene	25.0	26.4		ug/L		105	50 - 130	5	20
EDB	25.0	27.2		ug/L		109	70 - 130	0	20
2-Nitropropane	50.0	55.5		ug/L		111	27 - 196	2	20
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	7	20
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	2	20
Carbon disulfide	25.0	22.7		ug/L		91	68 - 146	5	20
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130	1	20
Bromoform	25.0	27.4		ug/L		110	68 - 136	1	20
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 130	2	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	4	20
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	3	20
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130	1	20
Acetone	125	165		ug/L		132	26 - 180	4	30
Dichlorodifluoromethane	25.0	38.8		ug/L		155	32 - 158	10	20
4-Methyl-2-pentanone (MIBK)	125	145		ug/L		116	50 - 155	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	42 - 162	10	20
Methylene Chloride	25.0	24.2		ug/L		97	70 - 147	3	20
Hexachlorobutadiene	25.0	25.1		ug/L		101	70 - 130	7	20
Chloromethane	25.0	30.5		ug/L		122	52 - 175	6	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 132	6	20
Bromomethane	25.0	27.5		ug/L		110	43 - 151	5	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	7	20
Chlorodibromomethane	25.0	27.7		ug/L		111	70 - 145	1	20
Dibromomethane	25.0	25.4		ug/L		102	70 - 130	1	20
1,1-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130	4	20
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	27.6		ug/L		111	70 - 136	5	20

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218396/8

Matrix: Water

Analysis Batch: 218396

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
Styrene	25.0	25.7		ug/L		103	70 - 130	2	20
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	68 - 130	4	20
Bromobenzene	25.0	24.6		ug/L		99	70 - 130	7	20
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130	3	20
Chloroethane	25.0	27.0		ug/L		108	62 - 138	7	20
1,1-Dichloroethene	25.0	22.8		ug/L		91	64 - 128	6	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	6	20
Trichloroethene	25.0	26.7		ug/L		107	70 - 130	5	20
1,1,1,2-Tetrachloroethane	25.0	26.2		ug/L		105	70 - 130	4	20
sec-Butylbenzene	25.0	24.4		ug/L		97	70 - 134	12	20
2-Hexanone	125	144		ug/L		116	60 - 164	3	20
2-Butanone (MEK)	125	145		ug/L		116	54 - 153	3	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	6	20
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 140	3	20
N-Propylbenzene	25.0	24.4		ug/L		97	70 - 130	8	20
Trichlorofluoromethane	25.0	28.2		ug/L		113	66 - 132	11	20
1,3,5-Trichlorobenzene	25.0	27.8		ug/L		111	70 - 130	4	20
Isopropyl alcohol	250	264		ug/L		105	66 - 165	6	20
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130	8	20
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 130	8	20
1,2,3-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 140	2	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	3	20
Chloroform	25.0	24.7		ug/L		99	70 - 130	3	20
Vinyl acetate	25.0	27.0		ug/L		108	43 - 163	13	20
Dichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	6	20
Vinyl chloride	25.0	29.6		ug/L		118	54 - 135	8	20
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 135	12	20
Carbon tetrachloride	25.0	25.5		ug/L		102	70 - 146	8	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	3	20
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	1	20
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 720-218424/9

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/25/17 17:58	1

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-218424/9

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			02/25/17 17:58	1
Ethylbenzene	ND		0.50		ug/L			02/25/17 17:58	1
Toluene	ND		0.50		ug/L			02/25/17 17:58	1
Xylenes, Total	ND		1.0		ug/L			02/25/17 17:58	1
Gasoline Range Organics (GRO)	ND		50		ug/L			02/25/17 17:58	1
-C5-C12									
TBA	ND		20		ug/L			02/25/17 17:58	1
DIPE	ND		0.50		ug/L			02/25/17 17:58	1
TAME	ND		0.50		ug/L			02/25/17 17:58	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/25/17 17:58	1
1,2-DCA	ND		0.50		ug/L			02/25/17 17:58	1
Naphthalene	ND		1.0		ug/L			02/25/17 17:58	1
EDB	ND		0.50		ug/L			02/25/17 17:58	1
2-Nitropropane	ND		10		ug/L			02/25/17 17:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/25/17 17:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/25/17 17:58	1
Carbon disulfide	ND		5.0		ug/L			02/25/17 17:58	1
Chlorobromomethane	ND		1.0		ug/L			02/25/17 17:58	1
Bromoform	ND		1.0		ug/L			02/25/17 17:58	1
Tetrachloroethene	ND		0.50		ug/L			02/25/17 17:58	1
1,1-Dichloroethane	ND		0.50		ug/L			02/25/17 17:58	1
1,2-Dichloropropane	ND		0.50		ug/L			02/25/17 17:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/25/17 17:58	1
Acetone	ND		50		ug/L			02/25/17 17:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/25/17 17:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/25/17 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/25/17 17:58	1
Methylene Chloride	ND		5.0		ug/L			02/25/17 17:58	1
Hexachlorobutadiene	ND		1.0		ug/L			02/25/17 17:58	1
Chloromethane	ND		1.0		ug/L			02/25/17 17:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/25/17 17:58	1
Bromomethane	ND		1.0		ug/L			02/25/17 17:58	1
2-Chlorotoluene	ND		0.50		ug/L			02/25/17 17:58	1
Chlorodibromomethane	ND		0.50		ug/L			02/25/17 17:58	1
Dibromomethane	ND		0.50		ug/L			02/25/17 17:58	1
1,1-Dichloropropene	ND		0.50		ug/L			02/25/17 17:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/25/17 17:58	1
Chlorobenzene	ND		0.50		ug/L			02/25/17 17:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/25/17 17:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/25/17 17:58	1
Styrene	ND		0.50		ug/L			02/25/17 17:58	1
4-Chlorotoluene	ND		0.50		ug/L			02/25/17 17:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/25/17 17:58	1
Bromobenzene	ND		1.0		ug/L			02/25/17 17:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/25/17 17:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/25/17 17:58	1
Chloroethane	ND		1.0		ug/L			02/25/17 17:58	1
1,1-Dichloroethene	ND		0.50		ug/L			02/25/17 17:58	1

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-218424/9

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50		ug/L			02/25/17 17:58	1
Trichloroethene	ND		0.50		ug/L			02/25/17 17:58	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/25/17 17:58	1
sec-Butylbenzene	ND		1.0		ug/L			02/25/17 17:58	1
2-Hexanone	ND		50		ug/L			02/25/17 17:58	1
2-Butanone (MEK)	ND		50		ug/L			02/25/17 17:58	1
Isopropylbenzene	ND		0.50		ug/L			02/25/17 17:58	1
2,2-Dichloropropane	ND		0.50		ug/L			02/25/17 17:58	1
N-Propylbenzene	ND		1.0		ug/L			02/25/17 17:58	1
Trichlorofluoromethane	ND		1.0		ug/L			02/25/17 17:58	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			02/25/17 17:58	1
Isopropyl alcohol	ND		100		ug/L			02/25/17 17:58	1
4-Isopropyltoluene	ND		1.0		ug/L			02/25/17 17:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/25/17 17:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/25/17 17:58	1
1,2,3-Trimethylbenzene	ND		0.50		ug/L			02/25/17 17:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/25/17 17:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/25/17 17:58	1
Chloroform	ND		1.0		ug/L			02/25/17 17:58	1
Vinyl acetate	ND		10		ug/L			02/25/17 17:58	1
Dichlorofluoromethane	ND		5.0		ug/L			02/25/17 17:58	1
Vinyl chloride	ND		0.50		ug/L			02/25/17 17:58	1
tert-Butylbenzene	ND		1.0		ug/L			02/25/17 17:58	1
Carbon tetrachloride	ND		0.50		ug/L			02/25/17 17:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/25/17 17:58	1
1,3-Dichloropropane	ND		1.0		ug/L			02/25/17 17:58	1
Dichlorobromomethane	ND		0.50		ug/L			02/25/17 17:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130					02/25/17 17:58	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130					02/25/17 17:58	1
Toluene-d8 (Surr)	103		70 - 130					02/25/17 17:58	1

Lab Sample ID: LCS 720-218424/5

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.6		ug/L		102	62 - 130
Benzene	25.0	24.5		ug/L		98	79 - 130
Ethylbenzene	25.0	24.0		ug/L		96	80 - 120
Toluene	25.0	24.5		ug/L		98	78 - 120
m-Xylene & p-Xylene	25.0	24.6		ug/L		98	70 - 142
o-Xylene	25.0	24.7		ug/L		99	70 - 130
TBA	250	249		ug/L		99	70 - 130
DIPE	25.0	25.9		ug/L		104	69 - 134
TAME	25.0	27.5		ug/L		110	79 - 130
Ethyl t-butyl ether	25.0	26.5		ug/L		106	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218424/5

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-DCA	25.0	24.6		ug/L		99	61 - 132
Naphthalene	25.0	26.1		ug/L		105	50 - 130
EDB	25.0	27.2		ug/L		109	70 - 130
2-Nitropropane	50.0	54.6		ug/L		109	27 - 196
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Carbon disulfide	25.0	22.2		ug/L		89	68 - 146
Chlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Bromoform	25.0	27.1		ug/L		108	68 - 136
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloroethane	25.0	24.1		ug/L		96	70 - 130
1,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
Acetone	125	161		ug/L		129	26 - 180
Dichlorodifluoromethane	25.0	33.4		ug/L		134	32 - 158
4-Methyl-2-pentanone (MIBK)	125	143		ug/L		114	50 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	42 - 162
Methylene Chloride	25.0	25.3		ug/L		101	70 - 147
Hexachlorobutadiene	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	28.5		ug/L		114	52 - 175
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 132
Bromomethane	25.0	26.8		ug/L		107	43 - 151
2-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130
Chlorodibromomethane	25.0	27.5		ug/L		110	70 - 145
Dibromomethane	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	25.1		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chlorobenzene	25.0	25.4		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.5		ug/L		110	70 - 136
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
Styrene	25.0	25.6		ug/L		103	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	68 - 130
Bromobenzene	25.0	24.4		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130
Chloroethane	25.0	26.4		ug/L		106	62 - 138
1,1-Dichloroethene	25.0	22.2		ug/L		89	64 - 128
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	26.4		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 134
2-Hexanone	125	143		ug/L		115	60 - 164
2-Butanone (MEK)	125	145		ug/L		116	54 - 153
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 140
N-Propylbenzene	25.0	23.7		ug/L		95	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218424/5

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	27.7		ug/L		111	66 - 132
1,3,5-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130
Isopropyl alcohol	250	262		ug/L		105	66 - 165
4-Isopropyltoluene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,2,3-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 140
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
Chloroform	25.0	24.4		ug/L		98	70 - 130
Vinyl acetate	25.0	26.6		ug/L		107	43 - 163
Dichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130
Vinyl chloride	25.0	28.0		ug/L		112	54 - 135
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 135
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 146
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCS 720-218424/7

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)	500	456		ug/L		91	71 - 125
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-218424/6

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.4		ug/L		105	62 - 130	3	20
Benzene	25.0	24.5		ug/L		98	79 - 130	0	20
Ethylbenzene	25.0	24.0		ug/L		96	80 - 120	0	20
Toluene	25.0	24.5		ug/L		98	78 - 120	0	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		98	70 - 142	0	20
o-Xylene	25.0	24.7		ug/L		99	70 - 130	0	20

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218424/6

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TBA	250	245		ug/L		98	70 - 130	1	20
DIPE	25.0	26.2		ug/L		105	69 - 134	1	20
TAME	25.0	28.2		ug/L		113	79 - 130	2	20
Ethyl t-butyl ether	25.0	26.9		ug/L		108	70 - 130	1	20
1,2-DCA	25.0	24.9		ug/L		100	61 - 132	1	20
Naphthalene	25.0	28.1		ug/L		112	50 - 130	7	20
EDB	25.0	27.9		ug/L		112	70 - 130	2	20
2-Nitropropane	50.0	58.1		ug/L		116	27 - 196	6	20
1,1,1-Trichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	1	20
Carbon disulfide	25.0	22.2		ug/L		89	68 - 146	0	20
Chlorobromomethane	25.0	27.2		ug/L		109	70 - 130	2	20
Bromoform	25.0	27.8		ug/L		111	68 - 136	3	20
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130	0	20
1,1-Dichloroethane	25.0	24.0		ug/L		96	70 - 130	0	20
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1,2-Trichloroethane	25.0	26.9		ug/L		107	70 - 130	2	20
Acetone	125	174		ug/L		139	26 - 180	8	30
Dichlorodifluoromethane	25.0	31.8		ug/L		127	32 - 158	5	20
4-Methyl-2-pentanone (MIBK)	125	151		ug/L		121	50 - 155	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.4		ug/L		97	42 - 162	1	20
Methylene Chloride	25.0	25.2		ug/L		101	70 - 147	0	20
Hexachlorobutadiene	25.0	25.2		ug/L		101	70 - 130	2	20
Chloromethane	25.0	27.9		ug/L		112	52 - 175	2	20
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		99	70 - 132	1	20
Bromomethane	25.0	26.7		ug/L		107	43 - 151	0	20
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	1	20
Chlorodibromomethane	25.0	28.1		ug/L		112	70 - 145	2	20
Dibromomethane	25.0	25.8		ug/L		103	70 - 130	2	20
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		107	70 - 130	2	20
Chlorobenzene	25.0	25.3		ug/L		101	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	29.6		ug/L		119	70 - 136	7	20
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
Styrene	25.0	25.6		ug/L		102	70 - 130	0	20
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	68 - 130	1	20
Bromobenzene	25.0	24.6		ug/L		98	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	27.7		ug/L		111	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130	5	20
Chloroethane	25.0	25.8		ug/L		103	62 - 138	2	20
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128	1	20
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	2	20
Trichloroethene	25.0	26.4		ug/L		106	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	26.2		ug/L		105	70 - 130	1	20
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 134	2	20
2-Hexanone	125	154		ug/L		123	60 - 164	7	20

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218424/6

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	125	153		ug/L		123	54 - 153	6	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	0	20
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 140	2	20
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130	1	20
Trichlorofluoromethane	25.0	26.7		ug/L		107	66 - 132	4	20
1,3,5-Trichlorobenzene	25.0	27.8		ug/L		111	70 - 130	1	20
Isopropyl alcohol	250	260		ug/L		104	66 - 165	1	20
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130	1	20
1,2,3-Trichloropropane	25.0	26.8		ug/L		107	70 - 130	6	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,2,3-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 140	2	20
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	0	20
Chloroform	25.0	24.5		ug/L		98	70 - 130	0	20
Vinyl acetate	25.0	26.7		ug/L		107	43 - 163	0	20
Dichlorofluoromethane	25.0	26.0		ug/L		104	70 - 130	1	20
Vinyl chloride	25.0	27.2		ug/L		109	54 - 135	3	20
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 135	1	20
Carbon tetrachloride	25.0	24.9		ug/L		99	70 - 146	0	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	25.0	25.6		ug/L		102	70 - 130	2	20
Dichlorobromomethane	25.0	26.1		ug/L		105	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-218424/8

Matrix: Water

Analysis Batch: 218424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	500	457		ug/L		91	71 - 125	0	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 720-218566/4

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			03/01/17 09:33	1
Benzene	ND		0.50		ug/L			03/01/17 09:33	1

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-218566/4

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50		ug/L			03/01/17 09:33	1
Toluene	ND		0.50		ug/L			03/01/17 09:33	1
Xylenes, Total	ND		1.0		ug/L			03/01/17 09:33	1
Gasoline Range Organics (GRO)	ND		50		ug/L			03/01/17 09:33	1
-C5-C12									
TBA	ND		20		ug/L			03/01/17 09:33	1
DIPE	ND		0.50		ug/L			03/01/17 09:33	1
TAME	ND		0.50		ug/L			03/01/17 09:33	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/01/17 09:33	1
1,2-DCA	ND		0.50		ug/L			03/01/17 09:33	1
Naphthalene	ND		1.0		ug/L			03/01/17 09:33	1
EDB	ND		0.50		ug/L			03/01/17 09:33	1
2-Nitropropane	ND		10		ug/L			03/01/17 09:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/01/17 09:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/01/17 09:33	1
Carbon disulfide	ND		5.0		ug/L			03/01/17 09:33	1
Chlorobromomethane	ND		1.0		ug/L			03/01/17 09:33	1
Bromoform	ND		1.0		ug/L			03/01/17 09:33	1
Tetrachloroethene	ND		0.50		ug/L			03/01/17 09:33	1
1,1-Dichloroethane	ND		0.50		ug/L			03/01/17 09:33	1
1,2-Dichloropropane	ND		0.50		ug/L			03/01/17 09:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/01/17 09:33	1
Acetone	ND		50		ug/L			03/01/17 09:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/01/17 09:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/01/17 09:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/01/17 09:33	1
Methylene Chloride	ND		5.0		ug/L			03/01/17 09:33	1
Hexachlorobutadiene	ND		1.0		ug/L			03/01/17 09:33	1
Chloromethane	ND		1.0		ug/L			03/01/17 09:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/01/17 09:33	1
Bromomethane	ND		1.0		ug/L			03/01/17 09:33	1
2-Chlorotoluene	ND		0.50		ug/L			03/01/17 09:33	1
Chlorodibromomethane	ND		0.50		ug/L			03/01/17 09:33	1
Dibromomethane	ND		0.50		ug/L			03/01/17 09:33	1
1,1-Dichloropropene	ND		0.50		ug/L			03/01/17 09:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/01/17 09:33	1
Chlorobenzene	ND		0.50		ug/L			03/01/17 09:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/01/17 09:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/01/17 09:33	1
Styrene	ND		0.50		ug/L			03/01/17 09:33	1
4-Chlorotoluene	ND		0.50		ug/L			03/01/17 09:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/01/17 09:33	1
Bromobenzene	ND		1.0		ug/L			03/01/17 09:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/01/17 09:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/01/17 09:33	1
Chloroethane	ND		1.0		ug/L			03/01/17 09:33	1
1,1-Dichloroethene	ND		0.50		ug/L			03/01/17 09:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/01/17 09:33	1

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-218566/4

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50		ug/L			03/01/17 09:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/01/17 09:33	1
sec-Butylbenzene	ND		1.0		ug/L			03/01/17 09:33	1
2-Hexanone	ND		50		ug/L			03/01/17 09:33	1
2-Butanone (MEK)	ND		50		ug/L			03/01/17 09:33	1
Isopropylbenzene	ND		0.50		ug/L			03/01/17 09:33	1
2,2-Dichloropropane	ND		0.50		ug/L			03/01/17 09:33	1
N-Propylbenzene	ND		1.0		ug/L			03/01/17 09:33	1
Trichlorofluoromethane	ND		1.0		ug/L			03/01/17 09:33	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			03/01/17 09:33	1
Isopropyl alcohol	ND		100		ug/L			03/01/17 09:33	1
4-Isopropyltoluene	ND		1.0		ug/L			03/01/17 09:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/01/17 09:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/01/17 09:33	1
1,2,3-Trimethylbenzene	ND		0.50		ug/L			03/01/17 09:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/01/17 09:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/01/17 09:33	1
Chloroform	ND		1.0		ug/L			03/01/17 09:33	1
Vinyl acetate	ND		10		ug/L			03/01/17 09:33	1
Dichlorofluoromethane	ND		5.0		ug/L			03/01/17 09:33	1
Vinyl chloride	ND		0.50		ug/L			03/01/17 09:33	1
tert-Butylbenzene	ND		1.0		ug/L			03/01/17 09:33	1
Carbon tetrachloride	ND		0.50		ug/L			03/01/17 09:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/01/17 09:33	1
1,3-Dichloropropane	ND		1.0		ug/L			03/01/17 09:33	1
Dichlorobromomethane	ND		0.50		ug/L			03/01/17 09:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130		03/01/17 09:33	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 130		03/01/17 09:33	1
Toluene-d8 (Surr)	102		70 - 130		03/01/17 09:33	1

Lab Sample ID: LCS 720-218566/5

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.4		ug/L		97	62 - 130
Benzene	25.0	23.6		ug/L		95	79 - 130
Ethylbenzene	25.0	23.3		ug/L		93	80 - 120
Toluene	25.0	23.7		ug/L		95	78 - 120
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 142
o-Xylene	25.0	23.8		ug/L		95	70 - 130
TBA	250	253		ug/L		101	70 - 130
DIPE	25.0	23.1		ug/L		93	69 - 134
TAME	25.0	24.2		ug/L		97	79 - 130
Ethyl t-butyl ether	25.0	24.2		ug/L		97	70 - 130
1,2-DCA	25.0	24.2		ug/L		97	61 - 132

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218566/5

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	25.0	25.9		ug/L		103	50 - 130
EDB	25.0	27.0		ug/L		108	70 - 130
2-Nitropropane	50.0	47.0		ug/L		94	27 - 196
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
Carbon disulfide	25.0	23.6		ug/L		95	68 - 146
Chlorobromomethane	25.0	27.6		ug/L		110	70 - 130
Bromoform	25.0	26.5		ug/L		106	68 - 136
Tetrachloroethene	25.0	27.6		ug/L		110	70 - 130
1,1-Dichloroethane	25.0	23.6		ug/L		94	70 - 130
1,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
Acetone	125	131		ug/L		105	26 - 180
Dichlorodifluoromethane	25.0	39.8	*	ug/L		159	32 - 158
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	50 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.8		ug/L		107	42 - 162
Methylene Chloride	25.0	24.1		ug/L		96	70 - 147
Hexachlorobutadiene	25.0	24.1		ug/L		97	70 - 130
Chloromethane	25.0	28.2		ug/L		113	52 - 175
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 132
Bromomethane	25.0	27.9		ug/L		112	43 - 151
2-Chlorotoluene	25.0	22.9		ug/L		92	70 - 130
Chlorodibromomethane	25.0	28.2		ug/L		113	70 - 145
Dibromomethane	25.0	25.1		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	70 - 136
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	24.8		ug/L		99	70 - 130
4-Chlorotoluene	25.0	23.1		ug/L		93	70 - 130
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	68 - 130
Bromobenzene	25.0	25.1		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130
Chloroethane	25.0	25.5		ug/L		102	62 - 138
1,1-Dichloroethene	25.0	24.0		ug/L		96	64 - 128
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
Trichloroethene	25.0	27.6		ug/L		111	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130
sec-Butylbenzene	25.0	23.9		ug/L		95	70 - 134
2-Hexanone	125	125		ug/L		100	60 - 164
2-Butanone (MEK)	125	122		ug/L		98	54 - 153
Isopropylbenzene	25.0	24.9		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 140
N-Propylbenzene	25.0	23.1		ug/L		92	70 - 130
Trichlorofluoromethane	25.0	27.4		ug/L		110	66 - 132

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218566/5

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
Isopropyl alcohol	250	246		ug/L		98	66 - 165
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,2,3-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 140
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130
Chloroform	25.0	24.3		ug/L		97	70 - 130
Vinyl acetate	25.0	24.6		ug/L		98	43 - 163
Dichlorofluoromethane	25.0	24.4		ug/L		98	70 - 130
Vinyl chloride	25.0	28.0		ug/L		112	54 - 135
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 135
Carbon tetrachloride	25.0	25.4		ug/L		102	70 - 146
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130
Dichlorobromomethane	25.0	25.1		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCS 720-218566/7

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	439		ug/L		88	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-218566/6

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.1		ug/L		96	62 - 130	1	20
Benzene	25.0	23.9		ug/L		96	79 - 130	1	20
Ethylbenzene	25.0	23.6		ug/L		94	80 - 120	1	20
Toluene	25.0	24.1		ug/L		96	78 - 120	2	20
m-Xylene & p-Xylene	25.0	24.1		ug/L		96	70 - 142	1	20
o-Xylene	25.0	24.0		ug/L		96	70 - 130	1	20
TBA	250	253		ug/L		101	70 - 130	0	20

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218566/6

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DIPE	25.0	23.2		ug/L		93	69 - 134	0	20
TAME	25.0	23.8		ug/L		95	79 - 130	2	20
Ethyl t-butyl ether	25.0	23.9		ug/L		96	70 - 130	1	20
1,2-DCA	25.0	24.0		ug/L		96	61 - 132	1	20
Naphthalene	25.0	25.5		ug/L		102	50 - 130	1	20
EDB	25.0	26.4		ug/L		106	70 - 130	2	20
2-Nitropropane	50.0	45.6		ug/L		91	27 - 196	3	20
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	0	20
Carbon disulfide	25.0	23.9		ug/L		96	68 - 146	1	20
Chlorobromomethane	25.0	27.4		ug/L		110	70 - 130	1	20
Bromoform	25.0	26.0		ug/L		104	68 - 136	2	20
Tetrachloroethene	25.0	27.6		ug/L		110	70 - 130	0	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	1	20
Acetone	125	124		ug/L		100	26 - 180	5	30
Dichlorodifluoromethane	25.0	40.1 *		ug/L		160	32 - 158	1	20
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		95	50 - 155	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.1		ug/L		108	42 - 162	1	20
Methylene Chloride	25.0	24.3		ug/L		97	70 - 147	1	20
Hexachlorobutadiene	25.0	24.1		ug/L		96	70 - 130	0	20
Chloromethane	25.0	28.5		ug/L		114	52 - 175	1	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 132	1	20
Bromomethane	25.0	28.2		ug/L		113	43 - 151	1	20
2-Chlorotoluene	25.0	23.1		ug/L		92	70 - 130	1	20
Chlorodibromomethane	25.0	27.6		ug/L		111	70 - 145	2	20
Dibromomethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,1-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	70 - 130	2	20
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		101	70 - 136	2	20
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
Styrene	25.0	24.7		ug/L		99	70 - 130	0	20
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	68 - 130	0	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	0	20
Chloroethane	25.0	25.7		ug/L		103	62 - 138	1	20
1,1-Dichloroethene	25.0	24.2		ug/L		97	64 - 128	1	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	70 - 130	1	20
Trichloroethene	25.0	27.7		ug/L		111	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130	0	20
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 134	1	20
2-Hexanone	125	118		ug/L		94	60 - 164	6	20
2-Butanone (MEK)	125	115		ug/L		92	54 - 153	6	20

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218566/6

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130	0	20
2,2-Dichloropropane	25.0	25.6		ug/L		103	70 - 140	2	20
N-Propylbenzene	25.0	23.5		ug/L		94	70 - 130	2	20
Trichlorofluoromethane	25.0	27.7		ug/L		111	66 - 132	1	20
1,3,5-Trichlorobenzene	25.0	25.6		ug/L		102	70 - 130	2	20
Isopropyl alcohol	250	245		ug/L		98	66 - 165	0	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20
1,2,3-Trimethylbenzene	25.0	24.1		ug/L		97	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 140	1	20
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130	1	20
Chloroform	25.0	24.5		ug/L		98	70 - 130	1	20
Vinyl acetate	25.0	23.9		ug/L		96	43 - 163	3	20
Dichlorofluoromethane	25.0	24.9		ug/L		100	70 - 130	2	20
Vinyl chloride	25.0	28.5		ug/L		114	54 - 135	2	20
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 135	2	20
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 146	1	20
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	2	20
Dichlorobromomethane	25.0	24.4		ug/L		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-218566/8

Matrix: Water

Analysis Batch: 218566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	500	445		ug/L		89	71 - 125	1	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-218049/1-A

Matrix: Water

Analysis Batch: 218062

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 218049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		02/17/17 16:59	02/18/17 12:58	1

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	91		23 - 156	02/17/17 16:59	02/18/17 12:58	1

Lab Sample ID: LCS 720-218049/2-A

Matrix: Water

Analysis Batch: 218062

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 218049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1980		ug/L		79	34 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
p-Terphenyl	100		23 - 156				

Lab Sample ID: LCSD 720-218049/3-A

Matrix: Water

Analysis Batch: 218062

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 218049

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1890		ug/L		76	34 - 115	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
p-Terphenyl	99		23 - 156						

Lab Sample ID: MB 720-218047/1-A

Matrix: Water

Analysis Batch: 218061

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 218047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		02/17/17 15:25	02/18/17 21:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Capric Acid (Surr)	0		0 - 5	02/17/17 15:25	02/18/17 21:17	1			
p-Terphenyl	80		31 - 150	02/17/17 15:25	02/18/17 21:17	1			

Lab Sample ID: LCS 720-218047/2-A

Matrix: Water

Analysis Batch: 218061

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 218047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1810		ug/L		72	32 - 119
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
p-Terphenyl	88		31 - 150				

Lab Sample ID: LCSD 720-218047/3-A

Matrix: Water

Analysis Batch: 218061

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 218047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1720		ug/L		69	32 - 119	5	35

TestAmerica Pleasanton

QC Sample Results

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-218047/3-A

Matrix: Water

Analysis Batch: 218061

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 218047

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
p-Terphenyl	90		31 - 150

QC Association Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

GC/MS VOA

Analysis Batch: 218396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-77663-2	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-218396/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218396/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218396/9	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218396/10	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218396/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 218424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-3	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-218424/9	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218424/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218424/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218424/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218424/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 218566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-4	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-218566/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218566/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218566/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218566/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218566/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 218047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-1	MW-1	Silica Gel Cleanup	Water	3510C SGC	
720-77663-2	MW-2	Silica Gel Cleanup	Water	3510C SGC	
720-77663-3	MW-3	Silica Gel Cleanup	Water	3510C SGC	
720-77663-4	MW-4	Silica Gel Cleanup	Water	3510C SGC	
MB 720-218047/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-218047/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	

TestAmerica Pleasanton

QC Association Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

GC Semi VOA (Continued)

Prep Batch: 218047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-218047/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

Prep Batch: 218049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-1	MW-1	Total/NA	Water	3510C	
720-77663-2	MW-2	Total/NA	Water	3510C	
720-77663-3	MW-3	Total/NA	Water	3510C	
720-77663-4	MW-4	Total/NA	Water	3510C	
MB 720-218049/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-218049/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-218049/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 218061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-4	MW-4	Total/NA	Water	8015B	218049
MB 720-218047/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	218047
LCS 720-218047/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	218047
LCSD 720-218047/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	218047

Analysis Batch: 218062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-218049/1-A	Method Blank	Total/NA	Water	8015B	218049
LCS 720-218049/2-A	Lab Control Sample	Total/NA	Water	8015B	218049
LCSD 720-218049/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	218049

Analysis Batch: 218102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77663-1	MW-1	Silica Gel Cleanup	Water	8015B	218047
720-77663-1	MW-1	Total/NA	Water	8015B	218049
720-77663-2	MW-2	Silica Gel Cleanup	Water	8015B	218047
720-77663-2	MW-2	Total/NA	Water	8015B	218049
720-77663-3	MW-3	Silica Gel Cleanup	Water	8015B	218047
720-77663-3	MW-3	Total/NA	Water	8015B	218049
720-77663-4	MW-4	Silica Gel Cleanup	Water	8015B	218047

TestAmerica Pleasanton

Lab Chronicle

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Client Sample ID: MW-1

Date Collected: 02/13/17 11:12

Date Received: 02/14/17 09:45

Lab Sample ID: 720-77663-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		50	218396	02/25/17 05:17	JRM	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			218047	02/17/17 15:25	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	218102	02/20/17 14:17	JXL	TAL PLS
Total/NA	Prep	3510C			218049	02/17/17 16:59	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218102	02/20/17 15:54	JXL	TAL PLS

Client Sample ID: MW-2

Date Collected: 02/13/17 11:10

Date Received: 02/14/17 09:45

Lab Sample ID: 720-77663-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	218396	02/25/17 05:45	JRM	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			218047	02/17/17 15:25	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	218102	02/20/17 14:41	JXL	TAL PLS
Total/NA	Prep	3510C			218049	02/17/17 16:59	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218102	02/20/17 16:18	JXL	TAL PLS

Client Sample ID: MW-3

Date Collected: 02/13/17 12:15

Date Received: 02/14/17 09:45

Lab Sample ID: 720-77663-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		50	218424	02/26/17 00:59	JRM	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			218047	02/17/17 15:25	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	218102	02/20/17 15:05	JXL	TAL PLS
Total/NA	Prep	3510C			218049	02/17/17 16:59	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218102	02/20/17 16:43	JXL	TAL PLS

Client Sample ID: MW-4

Date Collected: 02/13/17 11:50

Date Received: 02/14/17 09:45

Lab Sample ID: 720-77663-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		20	218566	03/01/17 16:35	MJK	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			218047	02/17/17 15:25	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	218102	02/20/17 15:30	JXL	TAL PLS
Total/NA	Prep	3510C			218049	02/17/17 16:59	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218061	02/18/17 17:52	JXL	TAL PLS

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton

Certification Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Method Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
Tetraethyl & Tetramethyl lead by 8270Mod	General Sub Contract Method	NONE	

Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: ATC Group Services LLC.
Project/Site: Salvation Army

TestAmerica Job ID: 720-77663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-77663-1	MW-1	Water	02/13/17 11:12	02/14/17 09:45
720-77663-2	MW-2	Water	02/13/17 11:10	02/14/17 09:45
720-77663-3	MW-3	Water	02/13/17 12:15	02/14/17 09:45
720-77663-4	MW-4	Water	02/13/17 11:50	02/14/17 09:45



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1702772

Report Created for: Test America

1220 Quarry Lane
Pleasanton, CA 94566

Project Contact: Dimple Sharma

Project P.O.: 720-77663-1

Project Name: 72011870; Salvation Army

Project Received: 02/14/2017

Analytical Report reviewed & approved for release on 02/21/2017 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Test America
Project: 72011870; Salvation Army
WorkOrder: 1702772

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

a3 sample diluted due to high organic content.



Analytical Report

Client: Test America
Date Received: 2/14/17 14:55
Date Prepared: 2/15/17
Project: 72011870; Salvation Army

WorkOrder: 1702772
Extraction Method: SW3510C
Analytical Method: SW8270C
Unit: µg/L

Organic Lead (speciated) by GC-MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1 (720-77663-1)	1702772-001A	Water	02/13/2017 11:12	GC30	134212
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Tetraethyl Lead	ND	0.26	0.62	5	02/16/2017 16:59
Tetramethyl Lead	ND	0.11	0.62	5	02/16/2017 16:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
2-Fluorobiphenyl	110	50-150			02/16/2017 16:59
<u>Analyst(s):</u> TD			<u>Analytical Comments:</u> a3		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3 (720-77663-3)	1702772-002A	Water	02/13/2017 12:15	GC30	134212
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Tetraethyl Lead	ND	0.26	0.62	5	02/16/2017 17:25
Tetramethyl Lead	ND	0.11	0.62	5	02/16/2017 17:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
2-Fluorobiphenyl	112	50-150			02/16/2017 17:25
<u>Analyst(s):</u> TD			<u>Analytical Comments:</u> a3		



Quality Control Report

Client: Test America
Date Prepared: 2/15/17
Date Analyzed: 2/16/17
Instrument: GC30
Matrix: Water
Project: 72011870; Salvation Army

WorkOrder: 1702772
BatchID: 134212
Extraction Method: SW3510C
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS-134212
1702772-001AMS/MSD

QC Summary Report for Organic Lead by GC-MS

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Tetraethyl Lead	ND	2.62	0.053	0.12	2.5	-	105	50-150
Tetramethyl Lead	ND	3.15	0.021	0.12	2.5	-	126	50-150
Surrogate Recovery								
2-Fluorobiphenyl	5.088	5.02			5	102	100	50-150

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Tetraethyl Lead	2.93	3.02	2.5	ND<0.62	117	121	50-150	2.87	30
Tetramethyl Lead	3.16	3.13	2.5	ND<0.62	126	125	50-150	0.685	30
Surrogate Recovery									
2-Fluorobiphenyl	5.26	5.39	5		105	108	50-150	2.38	30



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1702772

ClientCode: TAM

☐ WaterTrax ☐ WriteOn ☐ EDF ☒ Excel ☐ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Report to:

 Dimple Sharma
 Test America
 1220 Quarry Lane
 Pleasanton, CA 94566
 (925) 484-1919 FAX: (925) 600-3002

 Email: dimple.sharma@testamericainc.com
 cc/3rd Party:
 PO: 720-77663-1
 ProjectNo: 72011870; Salvation Army

Bill to:

 Accounts Payable
 TestAmerica
 4101 Shuffel Street NW
 North Canton, OH 44720
 AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 02/14/2017

Date Logged: 02/14/2017

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1702772-001	MW-1 (720-77663-1)	Water	2/13/2017 11:12	☐	A											
1702772-002	MW-3 (720-77663-3)	Water	2/13/2017 12:15	☐	A											

Test Legend:

1	MAI_OPBMS_W (J)	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Tina Perez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TEST AMERICA

Project: 72011870; Salvation Army

Work Order: 1702772

Client Contact: Dimple Sharma

QC Level: LEVEL 2

Contact's Email: dimple.sharma@testamericainc.com

Comments:

Date Logged: 2/14/2017

☐ WaterTrax ☐ WriteOn ☐ EDF ☒ Excel ☐ Fax ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1702772-001A	MW-1 (720-77663-1)	Water	Organic Lead (speciated)	2	1LA	☐	2/13/2017 11:12	5 days	Present	☐	
1702772-002A	MW-3 (720-77663-3)	Water	Organic Lead (speciated)	2	1LA	☐	2/13/2017 12:15	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **Test America**
Project Name: **72011870; Salvation Army**

Date and Time Received **2/14/2017 14:55**

Date Logged: **2/14/2017**

Received by: **Benjamin Yslas**

Logged by: **Tina Perez**

WorkOrder No: **1702772** Matrix: Water
Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐
Chain of custody signed when relinquished and received?	Yes ☒	No ☐
Chain of custody agrees with sample labels?	Yes ☒	No ☐
Sample IDs noted by Client on COC?	Yes ☒	No ☐
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐
Sampler's name noted on COC?	Yes ☐	No ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Sample/Temp Blank temperature	Temp:		NA ☒
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☒

Comments:

720-77663

Chain of Custody Record

174094

Pleasanton, CA 94566
Phone 925.464.1919 fax 925.600.3002

Regulatory Program: ☐ D/W ☐ NPDES ☐ RCRA

☐ Other:

TestAmerica Laboratories, Inc.

ATC Group Services LLC		Project Manager: Mike Sonke		Site Contact: Alex Flores		Date: 02/13/17		COC No. 1 of 1 COCs	
Address: 1117 Lone Palm Avenue, Suite 201B		Tel/Fax: (209) 579-2221		Lab Contact: Dimple Sharma		Carrier: TAC Courier		For Lab Use Only:	
City/State/Zip: Modesto, CA, 95351		Analysis Turnaround Time		Calendar (C) or Work Days (W)		Walk-In Client:		Lab Sampling:	
Phone: (209) 579-2221 FAX: (209) 579-2225		TAT if different from Below		☒ 2 weeks		Job / SDG No.:		Sampler: Alex Flores	
E-mail: mike.sonke@atcassociates.com		☐ 1 week		☐ 2 days		☐ 1 day			
Project Name: The Salvation Army Oakland ARC		☐		☐		☐			
Site: Facility Number: Project #: Z0540000006		☐		☐		☐			
Geotracker EDF Global ID #: T10000003428.		☐		☐		☐			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	EPA 8015M	TPH-d	wo/ silica gel clean up	EPA 8015 / 3630C	TPH-d	w/ silica gel clean up	EPA 8260B	TPH-g, BTEX, 5 Oxy's, Lead Scavengers, Naphthalene	EPA 8270 GC/ECD	Organic Lead Speciation	Sample Specific Notes:
MMW-1	02/13/17	1125	Glass	Water	10	N	G	X	X	X	X	X	X	X	X	X		
MMW-2		1110	Glass	Water	6	X	G	X	X	X	X	X	X	X	X	X		
MMW-3		1215	Glass	Water	10	X	G	X	X	X	X	X	X	X	X	X		
MMW-4		1150	Glass	Water	6	X	G	X	X	X	X	X	X	X	X	X		

720-77663 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Fuel Oxygenates: ETBE, DIPE, MTBE, TBA and TAME, 1,2 DCA and EDB.

Relinquished by: Alex Flores

Company: ATC Group S.

Date/Time: 2/14/17 0825

Received by: [Signature]

Company: TAC

Date/Time: 2/14/17 0825

1.5°C

Login Sample Receipt Checklist

Client: ATC Group Services LLC.

Job Number: 720-77663-1

Login Number: 77663

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Arauz, Dennis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix E

ATC's Standard Field Procedures for Soil Vapor Sampling and Laboratory Analysis





ATC Group Services STANDARD FIELD PROCEDURES FOR SOIL VAPOR SAMPLING AND ANALYSIS

These procedures were developed in accordance with the Cardno ATC workplan dated August 14, 2014 and applicable LOP regulatory guidance as provided by ACEH their August 3, 2016 letter.

The vapor intrusion assessment will be conducted in accordance with the site-specific safety plan. The scope will also be performed in general accordance with methodologies for soil vapor sampling established in the Advisory Active Soil vapor Investigations, California Environmental Protection Agency, Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, San Francisco Regional Water Quality Control Board, July 2015.

In preparation for sampling, a three-way probe sampling assembly will be constructed. One of the three ports will be attached to a Teflon tube connected to the sub-slab soil vapor sampling point. A second port will be connected to a vacuum/pressure gauge to measure the vacuum while purging. The third port will be used to withdraw soil vapor samples. Sample withdrawal rates will be restricted to 100 to 200-ml per minute by a flow constrictor device included within the sampling assembly.

The sampling assembly will be purged by removing three purge volumes of air from the assembly using a 60-ml plastic syringe. Purge volumes will be derived by adding the annular void space created within the substrate below the vapor pin because of boring through the slab, and the internal volume of sampling assembly. Once purging is complete, the syringe will be removed and replaced with a 200-ml/minute flow restrictor connected to a dedicated 400-ml SUMMA® canisters canister provided by an off-site analytical laboratory. This completed the sampling assembly.

The probe sampling assemblies dedicated to each location will be subjected to “shut in” and leak testing prior to use. The “shut in” test will be used to check the integrity of the assembly by establishing a vacuum of approximately 10 to 15 inches of mercury (in Hg) by closing external valves and drawing the purging syringe back to create a vacuum and then holding the vacuum steady for approximately 10 minutes. The assembly maintained vacuum of 10 to 15 in Hg over 10 minutes indicating an absence of leaks.

During purging, testing, and sampling activities, a “leak test” will be conducted. A temporary plastic enclosure will be constructed to envelope the assembly. A leak check compound 1,1-difluoroethane (1,1-DFA) will be introduced into the enclosure. This set up exposes the assembly’s connections, surface seals, and the top of the temporary soil vapor point to the leak check compound.

One soil vapor sample will be collected from each of the three (3) subslab vapor pins using a dedicated SUMMA® canister. The Vapor Intrusion Guidance, states that when more than four samples will be collected, one (1) duplicate sample is to be collected for QA/QC purposes. Since only three samples will be collected, no duplicate sample will be indicated.

Once the soil vapor samples will be collected, the SUMMA® canisters will be shipped under chain-of-custody procedures to H&P Mobile Geochemistry, a California-certified laboratory (ELAP Cert #69070) in Carlsbad, California, for analysis.

1.1. SOIL VAPOR SAMPLE ANALYSES

The contents of each soil vapor sample contained within its SUMMA[®] canister will be analyzed

SOIL VAPOR SAMPLE ANALYSES	
EPA Method TO-15¹	
Total Petroleum Hydrocarbons as Gasoline (TPHg)	Ethyl Tertiary Butyl Ether (ETBE)
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)	1,2-Dichloroethane (EDC))
Methyl Tertiary-Butyl Ether (MTBE)	Ethyl Dibromide (EDB)
Tertiary Butyl Alcohol (TBA)	Naphthalene
Di-Isopropyl Ether (DIPE)	1,1-difluoroethane (1,1-DFA) ²
Tertiary Amyl Methyl Ether (TAME)	
EPA Method TO-17³	
Naphthalene	
ASTM D 1946	
Oxygen	
Carbon dioxide	
EPA Method 8015¹	
Methane	

¹ - The TO-15 analytical method will be used since this method typically provide the lowest practical detection limits and better accuracy when compared to EPA Methods 8015M and 8260B.

² - 1,1-DFA = leak detection compound

³ - ACDEH had requested that one sample be analyzed for naphthalene by test method T-17,

¹ The analytical lab recommended Method 8015 as reporting limits were lower.

Appendix F

Subslab Soil Vapor Sampling Log





Soil Vapor Sampling Log

FLD-102

Revision 0.0

Jul-08

ATC Branch: Modesto, CA; 54

Date: 02/3/17

Page 1 of 1

Card No: ATC
Representative(s): Alex Flores

Project: TSN0

Location: 601 Webster Ave, Oakland, CA

Contact Information: Mike Sonke

Project No: Z054000006

Task No: 01

Weather: Sunny

Temperature:

Water Level Meter Model/ID: Solinst 100-

Interface Probe Model/ID: N/A

Well ID	Sampling Point / Type	Time of Sample Cap	Time of Gauging*		Initial P	Final P	Container	Other
			Start:	Finish:	"Hg	"Hg	400ml Summa	Cont. SN
BSS-1	Sub Surface 1/4"	1335	1346	1350	-25	-1	↓	008 purge & sample
BSS-2	↓	1415	1426	1430	-25	-2	↓	167 purge & sample
BSS-3	↓	1445	1456	1500	-25	-2	↓	064 purge & sample
BSS-1	Sub Surface 1/4"	1335	1346	1347			Sorbent tube	G0183852
BSS-2	↓	1415	1426	1427			↓	G0186955
BSS-3	↓	1445	1456	1457			↓	G0188543

Comments: Flow rate for both sorbent & Summa canister 200 cc per minute. Conduct pressure leak test at manifold & Leak Test: PC duster @ each sample location during sampling.

Notes:

- * If top of screen is submerged, allow at least 15 minutes for well equilibration following well cap removal.
- All measurements to be reported to nearest 0.01 ft.
- ID = Identification.
- LNAPL = Light Non-Aqueous Phase Liquid.
- Sheen = Discontinuous, non-measurable thickness of LNAPL (less than 0.01 ft).
- Trace = Continuous, non-measurable thickness of LNAPL.

Appendix G

Laboratory Analytical Data Report and Chain of Custody Documents Subslab Soil Vapor Samples



02 March 2017

Mr. Mike Sonke
ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351



H&P Project: ATC022117-14
Client Project: TSAO / Oakland, CA

Dear Mr. Mike Sonke:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 21-Feb-17 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,



Janis LaRoux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BSS-1	E702104-01	Vapor	13-Feb-17	21-Feb-17
BSS-2	E702104-02	Vapor	13-Feb-17	21-Feb-17
BSS-3	E702104-03	Vapor	13-Feb-17	21-Feb-17

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

DETECTIONS SUMMARY

Sample ID: BSS-1

Laboratory ID: E702104-01

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Carbon dioxide	3.3	0.20	%	ASTM D1945	
Oxygen	16	0.20	%	ASTM D1945	
Nitrogen	81	0.20	%	ASTM D1945	
Chloromethane	5.4	2.1	ug/m3	EPA TO-15	
Toluene	22	3.8	ug/m3	EPA TO-15	

Sample ID: BSS-2

Laboratory ID: E702104-02

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Carbon dioxide	3.2	0.20	%	ASTM D1945	
Oxygen	16	0.20	%	ASTM D1945	
Nitrogen	81	0.20	%	ASTM D1945	
Methane	14	10	ppmv	EPA 8015M	
Diisopropyl ether (DIPE)	5.5	4.2	ug/m3	EPA TO-15	
Benzene	37	3.2	ug/m3	EPA TO-15	
Trichloroethene	5.6	5.5	ug/m3	EPA TO-15	
Toluene	260	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	40	6.9	ug/m3	EPA TO-15	
Ethylbenzene	34	4.4	ug/m3	EPA TO-15	
m,p-Xylene	75	8.8	ug/m3	EPA TO-15	
Styrene	4.4	4.3	ug/m3	EPA TO-15	
o-Xylene	21	4.4	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	9.8	5.0	ug/m3	EPA TO-15	

Sample ID: BSS-3

Laboratory ID: E702104-03

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Carbon dioxide	4.2	0.20	%	ASTM D1945	
Oxygen	16	0.20	%	ASTM D1945	
Nitrogen	79	0.20	%	ASTM D1945	
Toluene	38	3.8	ug/m3	EPA TO-15	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Soil Gas and Vapor Analysis
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
BSS-1 (E702104-01) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
Carbon dioxide	3.3	0.20	%	1	EB72410	24-Feb-17	24-Feb-17	ASTM D1945	
Oxygen	16	0.20	"	"	"	"	"	"	
Nitrogen	81	0.20	"	"	"	"	"	"	
Methane	ND	10	ppmv	"	EB72409	24-Feb-17	24-Feb-17	EPA 8015M	
BSS-2 (E702104-02) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
Carbon dioxide	3.2	0.20	%	1	EB72410	24-Feb-17	24-Feb-17	ASTM D1945	
Oxygen	16	0.20	"	"	"	"	"	"	
Nitrogen	81	0.20	"	"	"	"	"	"	
Methane	14	10	ppmv	"	EB72409	24-Feb-17	24-Feb-17	EPA 8015M	
BSS-3 (E702104-03) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
Carbon dioxide	4.2	0.20	%	1	EB72410	24-Feb-17	24-Feb-17	ASTM D1945	
Oxygen	16	0.20	"	"	"	"	"	"	
Nitrogen	79	0.20	"	"	"	"	"	"	
Methane	ND	10	ppmv	"	EB72409	24-Feb-17	24-Feb-17	EPA 8015M	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
BSS-1 (E702104-01) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	5.4	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	6.1	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	4.2	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	4.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	4.2	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	22	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
BSS-1 (E702104-01) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
1,1,1,2-Tetrachloroethane	ND	7.0	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
Naphthalene	ND	5.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	76-134	"	"	"	"
Surrogate: Toluene-d8	85.6 %	78-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	79.7 %	77-127	"	"	"	"

BSS-2 (E702104-02) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17

1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	6.1	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	3.6	"	"	"	"	"	"	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
BSS-2 (E702104-02) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
1,1-Dichloroethane	ND	4.1	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	5.5	4.2	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	4.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	37	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	4.2	"	"	"	"	"	"	
Trichloroethene	5.6	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	260	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	40	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	34	4.4	"	"	"	"	"	"	
m,p-Xylene	75	8.8	"	"	"	"	"	"	
Styrene	4.4	4.3	"	"	"	"	"	"	
o-Xylene	21	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	9.8	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
Naphthalene	ND	5.3	"	"	"	"	"	"	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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BSS-2 (E702104-02) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17

1,2,4-Trichlorobenzene	ND	38	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		89.3 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.5 %	77-127		"	"	"	"	

BSS-3 (E702104-03) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17

1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	6.1	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	4.2	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	4.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	4.2	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
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Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
BSS-3 (E702104-03) Vapor Sampled: 13-Feb-17 Received: 21-Feb-17									
4-Methyl-2-pentanone (MIBK)	ND	8.3	ug/m3	1	EC70109	28-Feb-17	01-Mar-17	EPA TO-15	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	38	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
Naphthalene	ND	5.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		110 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	77-127		"	"	"	"	

ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
Modesto, CA 95351

Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Soil Gas and Vapor Analysis - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB72409 - GC

Blank (EB72409-BLK1)

Prepared & Analyzed: 24-Feb-17

Methane	ND	10	ppmv
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Batch EB72410 - GC

Blank (EB72410-BLK1)

Prepared & Analyzed: 24-Feb-17

Carbon dioxide	ND	0.20	%
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ATC Group Services - Modesto
1117 Lone Palm Ave., Suite B
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Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC70109 - TO-15

Blank (EC70109-BLK1)

Prepared & Analyzed: 28-Feb-17

1,1-Difluoroethane (LCC)	ND	5.5	ug/m3
Dichlorodifluoromethane (F12)	ND	5.0	"
Chloromethane	ND	2.1	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"
Vinyl chloride	ND	2.6	"
Bromomethane	ND	16	"
Chloroethane	ND	8.0	"
Trichlorofluoromethane (F11)	ND	5.6	"
1,1-Dichloroethene	ND	4.0	"
Tertiary-butyl alcohol (TBA)	ND	6.1	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"
Methylene chloride (Dichloromethane)	ND	3.5	"
Carbon disulfide	ND	6.3	"
trans-1,2-Dichloroethene	ND	8.0	"
Methyl tertiary-butyl ether (MTBE)	ND	3.6	"
1,1-Dichloroethane	ND	4.1	"
2-Butanone (MEK)	ND	30	"
cis-1,2-Dichloroethene	ND	4.0	"
Diisopropyl ether (DIPE)	ND	4.2	"
Chloroform	ND	4.9	"
Ethyl tert-butyl ether (ETBE)	ND	4.2	"
1,1,1-Trichloroethane	ND	5.5	"
1,2-Dichloroethane (EDC)	ND	4.1	"
Benzene	ND	3.2	"
Carbon tetrachloride	ND	6.4	"
Tertiary-amyl methyl ether (TAME)	ND	4.2	"
Trichloroethene	ND	5.5	"
1,2-Dichloropropane	ND	9.4	"
Bromodichloromethane	ND	6.8	"
cis-1,3-Dichloropropene	ND	4.6	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"
trans-1,3-Dichloropropene	ND	4.6	"
Toluene	ND	3.8	"
1,1,2-Trichloroethane	ND	5.5	"

ATC Group Services - Modesto
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Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC70109 - TO-15

Blank (EC70109-BLK1)

Prepared & Analyzed: 28-Feb-17

2-Hexanone (MBK)	ND	8.3	ug/m3
Dibromochloromethane	ND	8.6	"
Tetrachloroethene	ND	6.9	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,1,1,2-Tetrachloroethane	ND	7.0	"
Chlorobenzene	ND	4.7	"
Ethylbenzene	ND	4.4	"
m,p-Xylene	ND	8.8	"
Styrene	ND	4.3	"
o-Xylene	ND	4.4	"
Bromoform	ND	10	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
4-Ethyltoluene	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	12	"
1,4-Dichlorobenzene	ND	12	"
1,2-Dichlorobenzene	ND	12	"
Naphthalene	ND	5.3	"
1,2,4-Trichlorobenzene	ND	38	"
Hexachlorobutadiene	ND	54	"

Surrogate: 1,2-Dichloroethane-d4	44.3	"	42.9	103	76-134
Surrogate: Toluene-d8	40.2	"	41.4	97.0	78-125
Surrogate: 4-Bromofluorobenzene	64.3	"	72.9	88.2	77-127

LCS (EC70109-BS1)

Prepared & Analyzed: 28-Feb-17

Dichlorodifluoromethane (F12)	110	5.0	ug/m3	101	106	59-128
Vinyl chloride	50	2.6	"	52.0	95.7	64-127
Chloroethane	54	8.0	"	53.6	100	63-127
Trichlorofluoromethane (F11)	110	5.6	"	113	94.4	62-126
1,1-Dichloroethene	69	4.0	"	80.8	85.2	61-133
1,1,2-Trichlorotrifluoroethane (F113)	140	7.7	"	155	88.9	66-126
Methylene chloride (Dichloromethane)	58	3.5	"	70.8	82.0	62-115

ATC Group Services - Modesto
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Project: ATC022117-14
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Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC70109 - TO-15

LCS (EC70109-BS1)

Prepared & Analyzed: 28-Feb-17

trans-1,2-Dichloroethene	63	8.0	ug/m3	80.8		78.5	67-124			
1,1-Dichloroethane	72	4.1	"	82.4		87.7	68-126			
cis-1,2-Dichloroethene	66	4.0	"	80.0		82.6	70-121			
Chloroform	88	4.9	"	99.2		88.3	68-123			
1,1,1-Trichloroethane	110	5.5	"	111		97.6	68-125			
1,2-Dichloroethane (EDC)	77	4.1	"	82.4		93.1	65-128			
Benzene	58	3.2	"	64.8		90.2	69-119			
Carbon tetrachloride	140	6.4	"	128		110	68-132			
Trichloroethene	110	5.5	"	110		98.3	71-123			
Toluene	69	3.8	"	76.8		90.1	66-119			
1,1,2-Trichloroethane	100	5.5	"	111		92.5	73-119			
Tetrachloroethene	140	6.9	"	138		99.0	66-124			
1,1,1,2-Tetrachloroethane	140	7.0	"	140		102	67-129			
Ethylbenzene	88	4.4	"	88.4		99.7	70-124			
m,p-Xylene	85	8.8	"	88.4		96.3	61-134			
o-Xylene	88	4.4	"	88.4		99.6	67-125			
1,1,2,2-Tetrachloroethane	130	7.0	"	140		92.1	65-127			

Surrogate: 1,2-Dichloroethane-d4	45.5		"	42.9		106	76-134			
Surrogate: Toluene-d8	41.2		"	41.4		99.6	78-125			
Surrogate: 4-Bromofluorobenzene	68.1		"	72.9		93.4	77-127			

ATC Group Services - Modesto
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Project: ATC022117-14
Project Number: TSAO / Oakland, CA
Project Manager: Mr. Mike Sonke

Reported:
02-Mar-17 13:29

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L15-279-R1

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpimg.com/about/certifications.

Lab Client and Project Information			
Lab Client/Consultant: <u>ATC Group Services LLC</u>		Project Name / #: <u>TSAO</u>	
Lab Client Project Manager: <u>Mike Sonke</u>		Project Location: <u>Oakland, CA</u>	
Lab Client Address: <u>1117 Lone Palm Ave Suite 2018</u>		Report E-Mail(s): <u>Mike.Sonke@atcasociates.com</u> <u>Jim.Kundert@atcasociates.com</u>	
Lab Client City, State, Zip: <u>Modesto, CA 95351</u>			
Phone Number: <u>(209) 579-2221</u>			
Reporting Requirements		Turnaround Time	
☒ Standard Report ☐ Level III ☐ Level IV ☐ Excel EDD ☐ Other EDD: _____ ☒ CA Geotracker Global ID: <u>T10000003428</u>		☒ 5-7 day Std ☐ 24-Hr Rush ☐ 3-day Rush ☐ Mobile Lab ☐ 48-Hr Rush ☐ Other: _____	
Sampler Information		Sampler(s): <u>Alex Flores</u> Signature: <u>Alex Flores</u> Date: <u>02/18/17</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>2/21/17</u>	Control #: <u>170098.02</u>
H&P Project # <u>ATC022117-14</u>	
Lab Work Order # <u>E702104</u>	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID: <u>11167</u>	Temp: <u>RT</u>
Outside Lab:	
Receipt Notes/Tracking #: <u>1293TT619051764383</u>	
Lab PM Initials: <u>KIM</u>	

Additional Instructions to Laboratory: ANALYTE LIST (also attached)
TO-15 VOCs + OXY + NAPH + 1,1-DFA (LCC)
* Preferred VOC units (please choose one):
☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv
ASTM D1945 CO₂, O₂, N₂
8015m Methane KIM 2/21/17

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945	Final pressure			
								8260SV	TO-15	8260SV	TO-15	8260SV	TO-15	8260SV	TO-15m	8260SV	TO-15m	CO2				
BSS-1	BSS-1	02/13/17	1350	SS	400mL	008	-1.82	X		X		X	X			X	X	X	-1			
BSS-2	BSS-2		1430	SS		167	-1.94	X		X		X	X			X	X	X	-2			
BSS-3	BSS-3		1500	SS		064	-1.08	X		X		X	X			X	X	X	-2			
G0183852	BSS-1	02/13/17	1350	SS	S-tube	AF							X	AF								
G0186955	BSS-2	02/13/17	1430	SS		AF							X	AF								
G0188543	BSS-3	02/13/17	1500	SS		AF							X	AF								

Approved/Relinquished by: <u>Alex Flores</u>	Company: <u>ATC</u>	Date: <u>02/18/17</u>	Time:	Received by: <u>Jon Chiswant</u>	Company: <u>H&P</u>	Date: <u>2/21/17</u>	Time: <u>10:30</u>
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

**WORK ORDER NUMBER: 17-02-1501***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For**Client:** ATC Group Services LLC**Client Project Name:** TSAO / Z054000006**Attention:** Mike Sonke
1117 Lone Palm Ave.
Suite 201B
Modesto, CA 95351-1531

A handwritten signature in black ink, appearing to read "L. Thompson".

Approved for release on 03/01/2017 by:
Lori Thompson
Project Manager

[ResultLink ▶](#)[Email your PM ▶](#)

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

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Work Order Number: 17-02-1501

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/16/17. They were assigned to Work Order 17-02-1501.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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Sample Summary

Client:	ATC Group Services LLC	Work Order:	17-02-1501
	1117 Lone Palm Ave., Suite 201B	Project Name:	TSAO / Z054000006
	Modesto, CA 95351-1531	PO Number:	
		Date/Time Received:	02/16/17 18:40
		Number of Containers:	3

Attn: Mike Sonke

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
G0183852	17-02-1501-1	02/13/17 13:50	1	Air
G0186955	17-02-1501-2	02/13/17 14:30	1	Air
G0188543	17-02-1501-3	02/13/17 15:00	1	Air


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Analytical Report

ATC Group Services LLC
1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351-1531

Date Received: 02/16/17
Work Order: 17-02-1501
Preparation: N/A
Method: EPA TO-17 (M)
Units: ug/m3

Project: TSAO / Z054000006

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G0183852	17-02-1501-1-A	02/13/17 13:50	Air	GC/MS MMM	N/A	02/17/17 21:43	170217L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	10	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	57-129	

G0186955	17-02-1501-2-A	02/13/17 14:30	Air	GC/MS MMM	N/A	02/18/17 09:32	170217L02
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	10	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	57-129	

G0188543	17-02-1501-3-A	02/13/17 15:00	Air	GC/MS MMM	N/A	02/17/17 22:54	170217L02
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	10	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	57-129	

Method Blank	099-15-178-57	N/A	Air	GC/MS MMM	N/A	02/17/17 16:12	170217L02
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Comment(s): - MB data is reported in ng/sample.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	2.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	57-129	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Quality Control - LCS/LCSD

ATC Group Services LLC
1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351-1531

Date Received: 02/16/17
Work Order: 17-02-1501
Preparation: N/A
Method: EPA TO-17 (M)

Project: TSAO / Z054000006

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-178-57	LCS	Air	GC/MS MMM	N/A	02/17/17 13:29	170217L02			
099-15-178-57	LCSD	Air	GC/MS MMM	N/A	02/17/17 14:11	170217L02			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Naphthalene	100.0	90.09	90	87.62	88	40-190	3	0-35	

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RPD: Relative Percent Difference. CL: Control Limits



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Sample Analysis Summary Report

Work Order: 17-02-1501

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<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA TO-17 (M)	N/A	884	GC/MS MMM	2


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Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

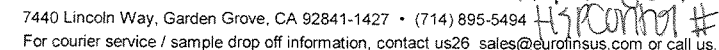
Work Order: 17-02-1501

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<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



H&P Proj Manager: KIM
H&P Project #: AIC021317-ca
H&P Control #: 170093.01

DATE: 021317
PAGE: 1 OF 1

WO NO. / LAB USE ONLY

17-02-1501

LABORATORY CLIENT:		CLIENT PROJECT NAME / NO.:		P.O. NO.:	
ATC Group Services LLC		TSAO / 2054000006			
ADDRESS:		PROJECT CONTACT:		LAB CONTACT OR QUOTE NO.:	
1117 Lone Palm Ave., Suite 201B		mike Sonke			
CITY:	STATE:	ZIP:			
Modesto	CA	95351			
TEL:	E-MAIL:		PROJECT ADDRESS:		SAMPLER(S): (PRINT)
(209) 579-2221	mike.sonke@atcasociates.com		601 Webster Ave		Alex Flores.
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):					
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD					
EDD:		UNITS:			
☐ COELT EDF ☐ OTHER		vg/m ³			
		CITY:		STATE:	ZIP:
		Oakland		CA	
REQUESTED ANALYSES					

SPECIAL INSTRUCTIONS:

Sorbent tube.

Sample volume = 200cc per tube

- Kim per Jim Kunder 2/16/17

[illegible]

Relinquished by: (Signature)

Alex Fleore

Relinquished by: (Signature)

UPS 1793TT618450806063

Relinquished by: (Signature)

e) Jon Chynoweth Hsp

Received by: (Signature/Affiliation)

1/PS

Received by: (Signature/Affiliation)

Received by: (Signature/Annulation)
~~John~~ Chusworth Hark

Received by: (Signature/Affiliation)

Date:

021517

Date:

Date: 2/16/17

Date:

0216 117

Time:

1545

Time:

Time. 9:40

Time:

1310

X	X	X	X	Naphthalene b4 TC-17m
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SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: _____

DATE: 02 / 16 / 2017

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)Thermometer ID: SC3B (CF: 0.0°C); Temperature (w/o CF): 3.1 °C (w/ CF): 3.1 °C; ☒ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling☐ Sample(s) received at ambient temperature; placed on ice for transport by courierAmbient Temperature: ☐ Air ☐ FilterChecked by: 671**CUSTODY SEAL:**Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/AChecked by: 671Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/AChecked by: 1053**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☐	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☒
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☒
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB☐ 125PBz_{na} ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs☐ 500PB ☐ 1AGB ☐ 1AGBna₂ ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____Air: ☐ Tedlar™ ☐ Canister ☒ Sorbent Tube ☐ PUF ☐ _____ Other Matrix (_____) ☐ _____ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1053s = H₂SO₄, u = ultra-pure, x = Na₂SO₃+NaHSO₄.H₂O, z_{na} = Zn (CH₃CO₂)₂ + NaOHReviewed by: 681