



**MONITORING WELLS 11 TO 15 INSTALLATION AND SAMPLING REPORT
FORSEYS CLEANERS AND LAUNDRY
856 25TH STREET
OGDEN, UTAH**

**PREPARED FOR:
OGDEN CITY COMMUNITY & ECONOMIC DEVELOPMENT
2549 WASHINGTON BLVD, SUITE 420
OGDEN, UT 84401**

ATTENTION: BRANDON COOPER

AGEC PROJECT NO. 1210086

FEBRUARY 22, 2021

1.0 INTRODUCTION

This report presents a Monitoring Well Installation and Sampling Report for five additional groundwater monitoring wells installed in the vicinity of the Forsey Cleaners & Laundry facility at 856 East 25th Street in Ogden, Utah. Applied Geotechnical Engineering Consultants, Inc., (AGEC) was requested to install five additional groundwater monitoring wells and conduct sampling to help delineate the extent and degree of PCE/TCE contamination present in the soil and/or groundwater in the vicinity of the former dry cleaner on the property. This report presents a summary of the additional monitoring well installation, soil and groundwater sampling activities and the initial environmental sampling test results for the additional well locations.

1.1 Site Background and Previous Sampling Results

A house was built by 1906 at 856 East 25th Street and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.

The property is listed on the RCRA Generator list for Meyers Cleaning Village at 856 25th Street. The facility was a small quantity generator of hazardous waste. The dry-cleaning facility was closed in early 1987 when the dry cleaning began to be performed at another facility. The business was sold in January 1988. The Forsey laundry does not perform dry cleaning on site.

To help determine if the historical dry cleaner has impacted the property, AGEC conducted a limited subsurface sampling investigation by obtaining soil and groundwater samples and performing a soil vapor investigation with locations inside and outside the existing building. This sampling event was not intended to delineate the extent of the contamination, if present, in the soil vapor, soil or groundwater.

Two exterior borings (GP-1 and GP-2) were advanced near the west and north side of the northwest end of the building, presumably where the historical dry-cleaning equipment was located (Figure 1). Two soil vapor sampling points (PRT-1 and PRT-2) were sampled adjacent to the borings west of the building. Two indoor subslab soil vapor samples were obtained in the northwest room, presumably near the historical dry-cleaning equipment.

The four soil samples did not contain concentrations of the analyzed contaminants above the laboratory reported detection limits with the exception of 2-Butanone also known as methyl ethyl ketone (MEK) and tetrachloroethylene (PCE). The contaminant concentrations were compared to the residential and commercial November 2019 EPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. RSLs are not necessarily cleanup standards. The RSL's role in site "screening" is to help identify areas, contaminants, and conditions that may require further attention at a particular site. The detected concentrations of MEK and PCE were below the respective residential RSL values.

The only contaminant detected in the two groundwater samples above the laboratory method detection limits was PCE (Table 2). The concentrations of PCE were 0.0422 mg/L (GP-1) and 0.00661 mg/L (GP-2). The EPA Maximum Contaminant Level (MCL) for PCE is 0.005 mg/L, so both concentrations exceeded the MCL.

The only VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and trichloroethene (TCE) in VP-1 and VP-2.

The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples. The degradation process of PCE produces daughter products as it works toward non-regulated, non-toxic compounds. The primary daughter products of PCE include TCE, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, and vinyl chloride.

According to the EPA, motor vehicle exhaust is a constant source of 1,3-butadiene and it is usually found in ambient air at low levels in urban and suburban areas. Potential sources of chloroform include chlorine-treated drinking water. Chlorinated drinking water can leak from buried water supply or sanitary sewer lines. A floor drain was within several feet of VP-2 and is likely the source of the chloroform. Naphthalene is found in cigarette smoke, car exhaust and diesel fuel.

Based on the limited initial sampling performed at the site, it appeared the PCE contamination is a result of a historical release near the former dry-cleaning equipment.

The sources of 1,3-butadiene, chloroform and naphthalene in the soil vapor samples are unknown. As they each were only detected in one of four samples, these compounds did not appear to be widespread contaminants on the property.

Findings of the study were reported to Ogden City Business Development under AGECE Project No. 1200034, dated January 29, 2020.

To help determine the soil and groundwater conditions on site, AGECE installed five groundwater monitoring wells on site (MW-1 to MW-5), in the vicinity of the previously detected groundwater contamination in borings GP-1 and GP-2 with wells east of the building (up gradient) and northwest, west and southwest of GP-1 (Figure 1). The five initial groundwater monitoring wells (MW-1 to MW-5) were installed on December 22, 2020.

Soil Results

PCE was detected in the soil samples from MW-2, MW-3, MW-4 and MW-5 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in boring MW-1, MW-2, MW-3 or MW-4. No compounds of concern were detected in boring MW-1 above the laboratory method detection limits.

Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-2, MW-3 and MW-4. The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-2, MW-3 and MW-4 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE (0.00626 mg/L) in boring MW-3 which is above the TCE MCL of 0.005 mg/L.

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE and TCE are present in the groundwater above the MCL in at least one monitoring well. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous two sampling events.

As the PCE groundwater contamination was highest in MW-3, the extent of the groundwater plume was not delineated with this sampling investigation.

Findings of the study were reported to Ogden City Business Development under AGECE Project No. 1200908, dated January 28, 2021.

To help delineate the PCE/TCE plume at the site, five additional monitoring wells were installed down gradient (north and west) of MW-3. Four groundwater monitoring wells

were installed on site (MW-6 to MW-9), and one groundwater monitoring well was installed off site (MW-10), down gradient of the highest concentrations of PCE/TCE previously detected in the groundwater in MW-3 (Figure 1). The five additional groundwater monitoring wells (MW-6 to MW-10) were installed on January 20, 2021.

Soil Results

PCE was detected in the soil samples from MW-7 and MW-10 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in borings MW-7 or MW-10. No compounds of concern were detected in borings MW-6, MW-8 or MW-9 above the laboratory method detection limits.

Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-6, MW-7, MW-8 and MW-10 (Figure 3). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-6, MW-7, MW-8 and MW-10 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE (0.0127 mg/L) in boring MW-10, which is above the TCE MCL of 0.005 mg/L and chloroform (0.00410 mg/L) in MW-7. The concentration of chloroform is below the MCL of 0.080 mg/L.

As the PCE groundwater contamination is above the MCL in MW-7, MW-8 and MW-10 the extent of the PCE groundwater plume was not delineated with this sampling investigation, and has been shown to impact the neighboring property to the west.

Findings of the study were reported to Ogden City Business Development under AGECEC Project No. 1210017, dated January 28, 2021.

2.0 ADDITIONAL SITE INVESTIGATION SAMPLING ACTIVITIES

To help continue the delineation the PCE/TCE plume at the site, one additional groundwater monitoring well was installed on site (MW-11), and four additional groundwater monitoring wells were installed off site (MW-12 to MW-15), down gradient of the concentrations of PCE/TCE previously detected in the groundwater in MW-10 (Figures 3 and 4). The five additional groundwater monitoring wells (MW-11 to MW-15) were installed on February 8, 2021.

2.1 Additional Monitoring Well Installation and Soil Sampling

Each well location was pre-marked and Blue-staked. The five additional wells were installed using hollow 3.25-inch inside diameter direct-push casing by drilling approximately 15 feet below the ground using a dual-tube sampling rod. The soil was logged and continuously sampled to the bottom of the borings in 5-foot intervals using disposable acetate liners. Groundwater was encountered in the borings at depths of approximately 7 to 8½ feet. Drilling and sampling equipment were decontaminated prior to arrival and between each boring with the use of a non-phosphate detergent (Alconox) and double rinsing in tap water with a pressure washer.

The soil samples obtained from the borings were screened on site with a photo-ionization detection (PID) meter. The PID was calibrated with a known concentration of isobutylene gas and zeroed at a background site location. Soil staining, odors and elevated PID readings were not detected during the sampling. As no evidence of contamination was detected in the borings, soil samples were obtained from each boring near the groundwater interface depth (6½ to 8½ feet below grade). As no soil was recovered above a depth of 9 feet in MW-12, the soil sample was obtained from a depth approximately 9 feet. Each soil sample was placed in two glass jars as provided by the analytical laboratory with no head space while wearing new disposable gloves. The sample jars were labeled with the location, depth, date and time, immediately stored in a cooler with ice and transported with chain of custody forms to a Utah-certified analytical laboratory, American West Analytical Laboratories (AWAL). The soil samples were analyzed for total VOCs.

The subsurface sampling indicated the materials encountered in borings MW-11 and MW-13 consist of approximately ½-foot of asphaltic concrete pavement overlying approximately ½-foot of base course. Approximately ½-foot of base course was encountered in borings MW-12 and MW-15. Approximately 4 feet of fill, consisting of sandy lean clay, extends below the base course in boring MW-11. Approximately 7 to 9½ feet of natural lean clay grading to sandy lean clay extends below the base course and fill in borings MW-11 to MW-15. Natural lean clay interlayered with silty to poorly-graded sand with silt extends below the natural lean clay to the maximum depth investigated, approximately 14 feet. Boring logs are presented on Figures 5 to 7 with notes and legend on Figure 8.

The wells were constructed with 10 feet of 1.5-inch inside diameter, schedule 40 PVC well screen with prepacked sand (2.25 inch OD). The inert screen for the wells extended approximately 3 to 5 feet above the groundwater interface to allow for sample collection in the uppermost aquifer. Blank schedule 40 PVC riser pipe extended from the screen to within approximately 6 inches of the top of the surrounding ground

surface. A solid end cap was placed on the bottom of each of the well screen sections. Each well was constructed with approximately 1 to 2 feet of silica sand extending above the screen section and then hydrated bentonite to within 1 foot of the ground surface. Each well was completed with a 7-inch diameter flush-mounted monument embedded in concrete.

As the borings were advanced with direct push methods, excess drill cuttings were not produced.

2.2 Well Sampling

Development of the wells was performed on February 10, 2021, approximately 2 days after the wells were installed. The new wells were developed with the use of a peristaltic pump and by pumping a minimum of three well casing volumes. Free-product was not observed in the wells or purge water. The purge water removed during the well development was collected in buckets and deposited in a steel 55-gallon drum with sealing lid that was placed on the north side of the existing Forsey building. The drum and purge water will be stored on site temporarily until disposal. Disposal will be performed by ET Technologies.

The tops of each of the five additional new well casings on the property were surveyed after installation so that the groundwater elevations and gradient can be calculated (Tables 4 and 5 in Appendix A). The depth to groundwater and the overall depth of the wells was measured in each monitoring well to determine the groundwater elevation in each well and the water column volume. The depth to water in the five additional new wells was measured on February 10, 2021, prior to purging and sampling. The wells were measured with a water level indicator probe to the nearest 0.01 foot. The probe was decontaminated between each monitoring well with non-phosphate soap (Alconox) and double rinsed in tap water. The groundwater elevations from the five new wells and ten previous wells (also measured on February 10, 2021) were used to calculate the approximate hydraulic gradient with the EPA Hydraulic Gradient Calculator (0.018 ft/ft) and groundwater flow direction across the property (approximately 275°) to the west-northwest (Figure 2).

Following the well development activities, groundwater samples were obtained on February 10, 2021, in general accordance with the sampling protocols as set by Utah State and the Environmental Protection Agency. The samples from each of the five wells were collected with the use of a peristaltic pump with low flow controls and new polyethylene tubing to fill the sample vials. A duplicate set of groundwater samples was obtained from monitoring well MW-12 (MW-12-Dup).

The samples were transferred directly to 40 ml glass vials equipped with Teflon septa and preserved with 2 percent hydrochloric acid as provided by the analytical laboratory. The sample vials were labeled, immediately stored in a cooler with ice to maintain an appropriate temperature of approximately 4°C and transported with chain of custody forms to AWAL. Chain of Custody forms supplied by the analytical laboratory were used. A set of trip blank samples prepared by the laboratory was stored with the five samples and duplicate and was submitted with the other samples for analytical testing for total VOCs.

2.3 Equipment Decontamination Procedures

Disposable well development and sampling equipment such as new polyethylene tubing and disposable gloves were used to help eliminate the possibility of cross-contamination and to simplify decontamination procedures.

3.0 LABORATORY RESULTS

During the February 8 and 10, 2021 sampling events, the five soil samples, five groundwater samples, one duplicate groundwater sample and the trip blank were submitted to AWAL for laboratory analyses to determine if significant concentrations of VOCs were present in the soil and/or groundwater on the property at the sampled locations. Quality control level 2+ was used by the analytical laboratory.

3.1 Soil Results

PCE was detected in the soil samples from MW-12, MW-14 and MW-15 above the laboratory method detection limits. TCE was detected in the soil sample from MW-12. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE and TCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in borings MW-12, MW-14 or MW-15. No compounds of concern were detected in borings MW-11 or MW-13 above the laboratory method detection limits.

3.2 Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-11, MW-12, MW-13, MW-14 and MW-15 (Figure 3). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-11, MW-12, MW-14 and MW-15 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected

above the laboratory method detection limits was TCE in borings MW-12 (0.026 mg/L) and MW-15 (0.0619 mg/L), which are above the TCE MCL of 0.005 mg/L (Figure 4).

3.3 Quality Control/Assurance Data Validation Report

The data validation conducted on the laboratory analytical data for the five soil and six groundwater samples is considered acceptable for use in meeting the project objectives. The samples were submitted to the analytical laboratory the same day they were sampled on February 8 and 10, 2021.

Chain of custody forms were filled out for the soil and groundwater samples. Copies of the AWAL test reports and QC summary reports are included in Appendix B of this report.

4.0 CONCLUSIONS

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE are present in the groundwater above the MCL in 11 of the 15 monitoring wells installed at the site. Concentrations of TCE are present in the groundwater above the MCL in four of the 15 monitoring wells installed at the site. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous three sampling events.

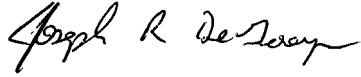
As the PCE groundwater contamination is above the MCL in MW-11, MW-12, MW-14 and MW-15 the extent of the PCE groundwater plume was not delineated with this sampling investigation, and has been shown to impact the neighboring properties to the west of the former dry cleaner. As the concentrations of PCE and TCE are highest to date in MW-12, in the farthest northwestern well, there is a potential that multiple sources of the contaminants exist at the site.

5.0 LIMITATIONS

This study has been prepared in accordance with generally accepted environmental practices in this area for the use of the client. The conclusions of the report are based on information obtained from field observations and testing of the soil and groundwater samples obtained at the approximate locations indicated in the report and the data obtained from the field and laboratory testing.

Applied Geotechnical Engineering Consultants, Inc. does not represent that the soil and groundwater on the property contains no hazardous materials or other latent conditions beyond what was found for the compounds and locations tested.

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

A handwritten signature in cursive script, appearing to read "Joseph R. DeGooyer".

Prepared by Joseph R. DeGooyer

A handwritten signature in cursive script, appearing to read "Thomas R. Atkinson".

Reviewed by Thomas R. Atkinson

FIGURES



From NearMap Aerial Photograph
September 11, 2020

FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH



Approximate Scale
1 inch = 40 feet

1210086



Monitoring Wells and Sample Locations

Figure 1



From NearMap Aerial Photograph
September 11, 2020

GW Elevation
RSB



Approximate Scale
1 inch = 40 feet

FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH

1210086



Groundwater Elevation (2/10/2021)

Figure 2



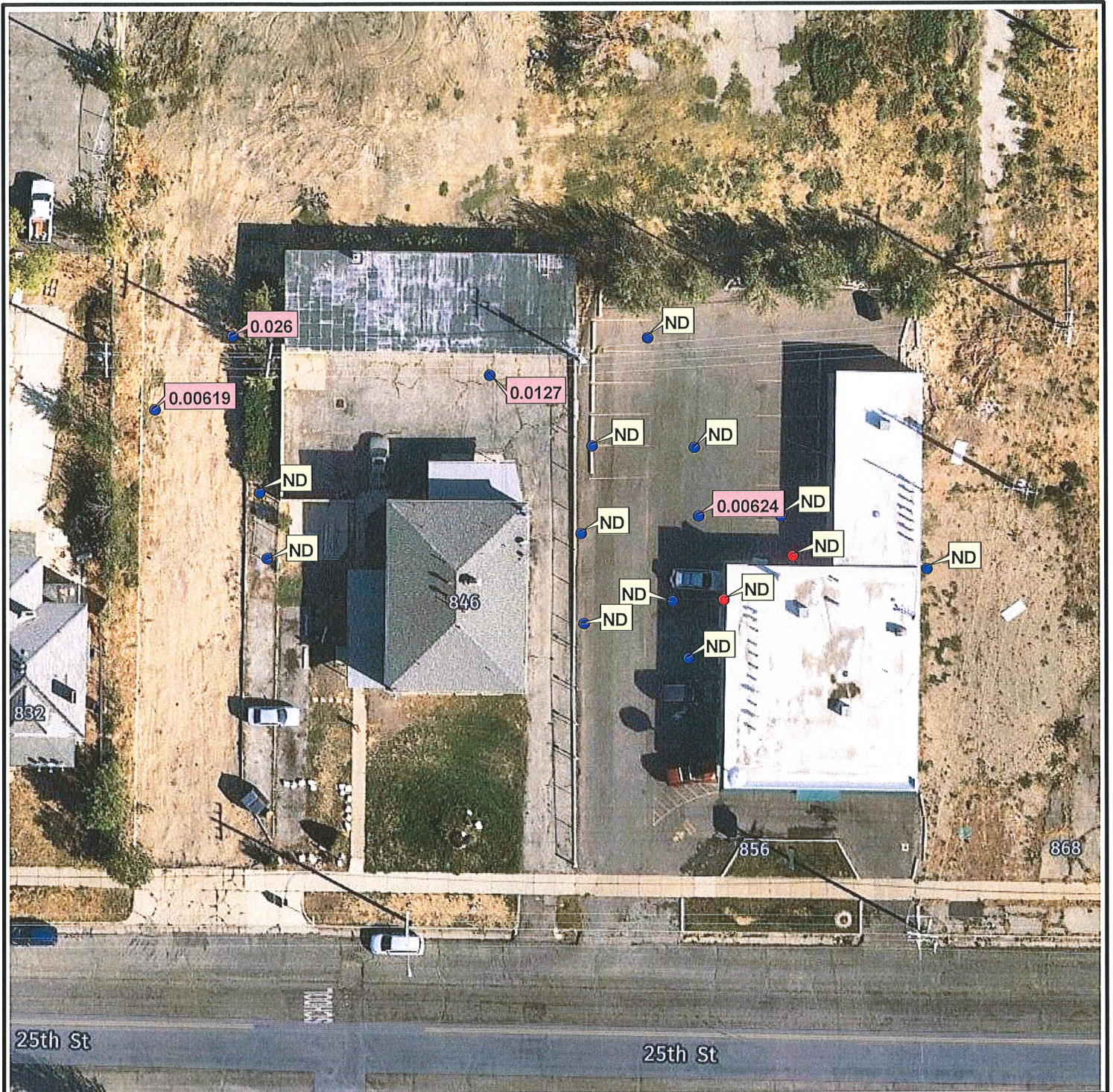
From NearMap Aerial Photograph
September 11, 2020

● PCE (mg/L)




Approximate Scale
1 inch = 40 feet

FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH



From NearMap Aerial Photograph
September 11, 2020

 TCE (mg/L)



Approximate Scale
1 inch = 40 feet

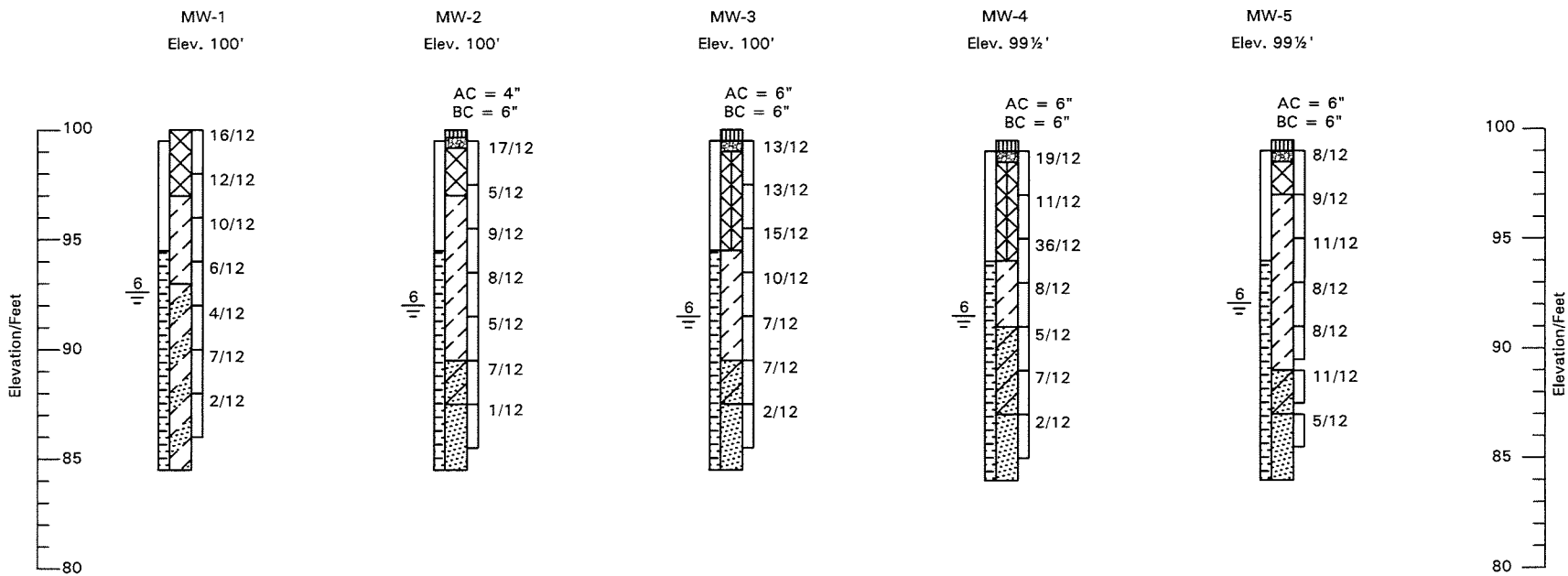
FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH

1210086



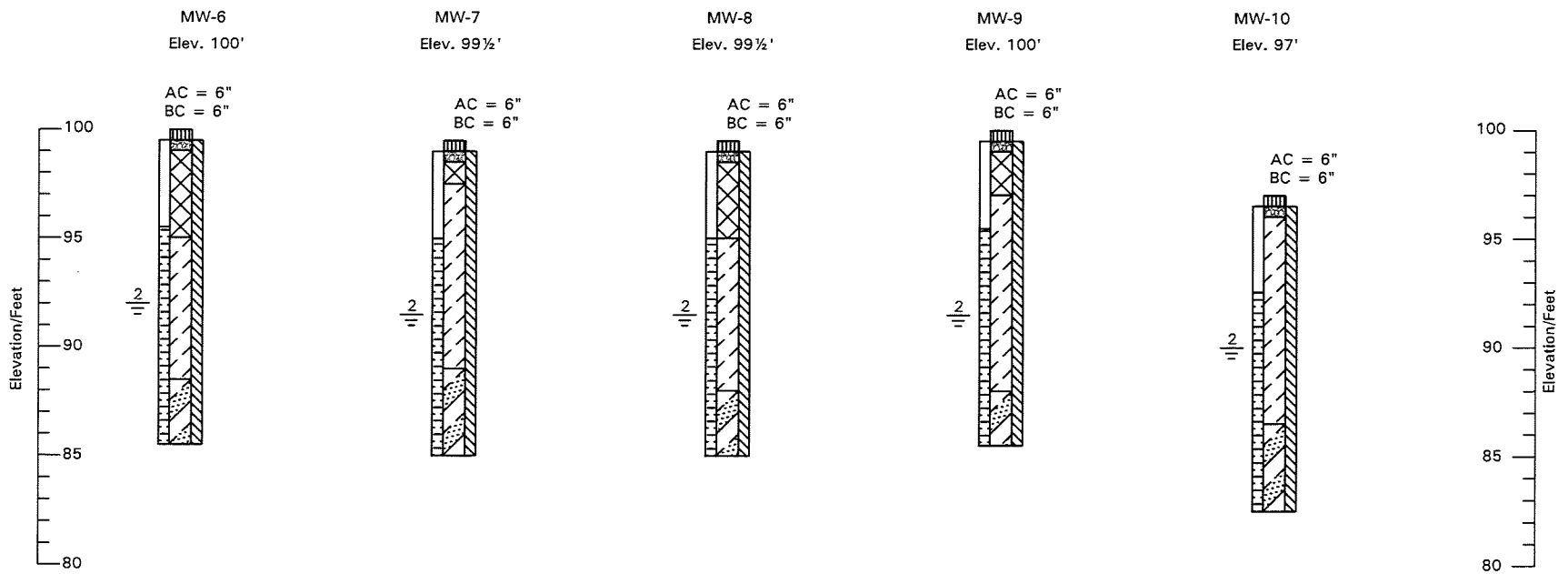
TCE Concentrations (12-2020, 01/2021 & 2/2021)

Figure 4



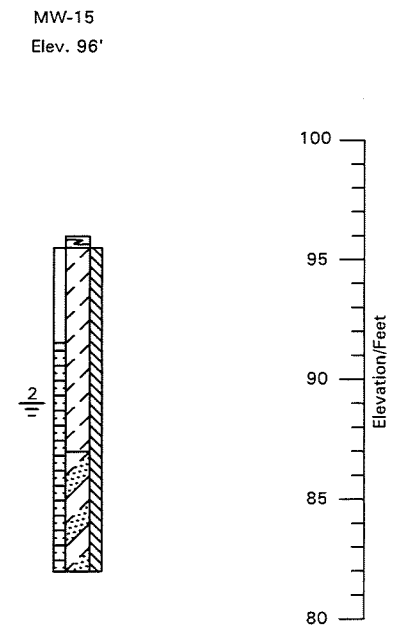
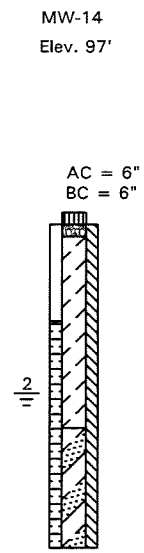
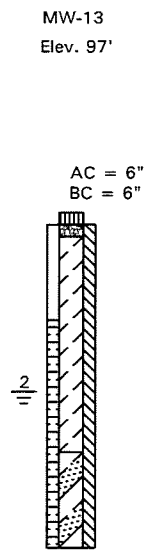
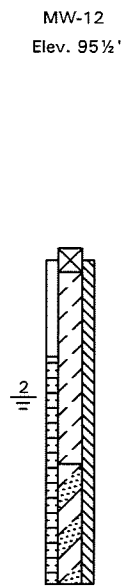
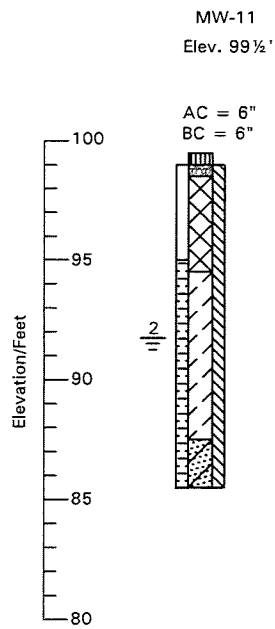
Approximate Vertical Scale 1" = 8'

See Figure 8 for Legend and Notes



Approximate Vertical Scale 1" = 8'

See Figure 8 for Legend and Notes



Approximate Vertical Scale 1" = 8'

See Figure 8 for Legend and Notes

LEGEND:



Asphaltic Concrete; dense, dry, black, poor to good condition.



Base Course; silty gravel with sand, moist, brown, angular aggregates.



Fill; lean clay to sandy lean clay to silty gravel with sand, moist, dark brown to brown to dark gray, petroleum hydrocarbon odor in MW-1 and MW-2.



Lean Clay (CL); sandy, stiff to medium stiff, moist, dark brown to brown, slight petroleum hydrocarbon odor in MW-2.



Silty Sand (SM); loose to medium dense, moist, light brown.



Poorly-graded Sand (SP); slightly gravelly, medium dense, wet, brown.



Poorly-graded Sand with Silty Sand (SP/SM); medium dense, moist, brown to gray.



Poorly-graded Gravel with Sand (GP); loose to very dense, moist to wet, brown to gray, petroleum hydrocarbon odor in MW-2.



Poorly-graded Gravel with Silt and Sand (GP-GM); medium dense, moist to wet, grayish brown.



10/12 California Drive sample taken. The symbol 10/12 indicates that 10 blows from a 140-pound automatic hammer falling 30 inches were required to drive the sampler 12 inches.



Indicates continuous soil sample taken. The samples were obtained with disposable acetate liners.



Indicates slotted 1 ½-inch PVC pipe installed in the boring to the depth shown.



Indicates solid 1 ½-inch PVC pipe installed in the boring to the depth shown.



Indicates the depth to free water and number of days after drilling the measurement was taken.

NOTES:

1. Borings MW-1 TO MW-5 were drilled on December 3, 2020 using direct push equipment. Borings MW-6 to MW-10 were drilled on January 20, 2021. Borings MW-11 to MW-15 were drilled on February 8, 2021.
2. Locations of the borings were measured approximately by pacing from features shown on the site plan provided.
3. Elevations of the borings were measured by automatic/hand level and refer to the benchmark shown on Figure 1.
4. The boring locations and elevations should be considered accurate only to the degree implied by the method used.
5. The lines between materials shown on the boring logs represent the approximate boundaries between material types and the transitions may be gradual.
6. The water level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level will occur with time.

APPENDIX B

AWAL LABORATORY RESULTS



Joe DeGooyer
Applied Geotechnical
600 West Sandy Parkway
Sandy, UT 84070
TEL: (801) 566-6399

RE: Forseys Cleaners Wells 11 to 15 / 1210086

Dear Joe DeGooyer:

Lab Set ID: 2102184

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 2/8/2021 for the analyses presented in the following report.

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: www.awal-labs.com

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11 to 15 / 1210086
Lab Sample ID: 2102184-001A
Client Sample ID: MW-11 @ 7'-8'
Collection Date: 2/8/2021 1015h
Received Date: 2/8/2021 1630h

Test Code: 8260D-S

Analytical Results

VOAs AWAL List by GC/MS Method 8260D

Analyzed: 2/9/2021 810h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.40	< 2.40	
1,1,2,2-Tetrachloroethane	79-34-5	2.40	< 2.40	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.40	< 2.40	
1,1,2-Trichloroethane	79-00-5	2.40	< 2.40	
1,1-Dichloroethane	75-34-3	2.40	< 2.40	
1,1-Dichloroethene	75-35-4	2.40	< 2.40	
1,2,3-Trichlorobenzene	87-61-6	2.40	< 2.40	
1,2,4-Trichlorobenzene	120-82-1	2.40	< 2.40	
1,2-Dibromo-3-chloropropane	96-12-8	5.99	< 5.99	
1,2-Dibromoethane	106-93-4	2.40	< 2.40	
1,2-Dichlorobenzene	95-50-1	2.40	< 2.40	
1,2-Dichloroethane	107-06-2	2.40	< 2.40	
1,2-Dichloropropane	78-87-5	2.40	< 2.40	
1,3-Dichlorobenzene	541-73-1	2.40	< 2.40	
1,4-Dichlorobenzene	106-46-7	2.40	< 2.40	
1,4-Dioxane	123-91-1	59.9	< 59.9	
2-Butanone	78-93-3	12.0	< 12.0	\$
2-Hexanone	591-78-6	5.99	< 5.99	
4-Methyl-2-pentanone	108-10-1	5.99	< 5.99	
Acetone	67-64-1	12.0	< 12.0	\$
Benzene	71-43-2	2.40	< 2.40	
Bromochloromethane	74-97-5	2.40	< 2.40	
Bromodichloromethane	75-27-4	2.40	< 2.40	
Bromoform	75-25-2	2.40	< 2.40	
Bromomethane	74-83-9	5.99	< 5.99	
Carbon disulfide	75-15-0	2.40	< 2.40	
Carbon tetrachloride	56-23-5	2.40	< 2.40	
Chlorobenzene	108-90-7	2.40	< 2.40	
Chloroethane	75-00-3	2.40	< 2.40	



Lab Sample ID: 2102184-001A

Client Sample ID: MW-11 @ 7'-8'

Analyzed: 2/9/2021 810h

Extracted:

Units: µg/kg-dry

Dilution Factor: 0.99

Method: SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.40	< 2.40	
Chloromethane	74-87-3	3.60	< 3.60	
cis-1,2-Dichloroethene	156-59-2	2.40	< 2.40	
cis-1,3-Dichloropropene	10061-01-5	2.40	< 2.40	
Cyclohexane	110-82-7	2.40	< 2.40	
Dibromochloromethane	124-48-1	2.40	< 2.40	
Dichlorodifluoromethane	75-71-8	2.40	< 2.40	#
Ethylbenzene	100-41-4	2.40	< 2.40	
Isopropylbenzene	98-82-8	2.40	< 2.40	
m,p-Xylene	179601-23-1	2.40	< 2.40	
Methyl Acetate	79-20-9	5.99	< 5.99	
Methyl tert-butyl ether	1634-04-4	2.40	< 2.40	
Methylcyclohexane	108-87-2	2.40	< 2.40	
Methylene chloride	75-09-2	5.99	< 5.99	
Naphthalene	91-20-3	2.40	< 2.40	
o-Xylene	95-47-6	2.40	< 2.40	
Styrene	100-42-5	2.40	< 2.40	
Tetrachloroethene	127-18-4	2.40	< 2.40	
Toluene	108-88-3	2.40	< 2.40	
trans-1,2-Dichloroethene	156-60-5	2.40	< 2.40	
trans-1,3-Dichloropropene	10061-02-6	2.40	< 2.40	
Trichloroethene	79-01-6	2.40	< 2.40	
Trichlorofluoromethane	75-69-4	2.40	< 2.40	
Vinyl chloride	75-01-4	1.20	< 1.20	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	65.0	59.95	108	70-132	
Surr: 4-Bromofluorobenzene		460-00-4	58.8	59.95	98.1	70-125	
Surr: Dibromofluoromethane		1868-53-7	56.5	59.95	94.2	70-133	
Surr: Toluene-d8		2037-26-5	59.5	59.95	99.2	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11 to 15 / 1210086
Lab Sample ID: 2102184-002A
Client Sample ID: MW-12 @ 9'-10'
Collection Date: 2/8/2021 1140h
Received Date: 2/8/2021 1630h

Test Code: 8260D-S

Analytical Results

VOAs AWAL List by GC/MS Method 8260D

Analyzed: 2/9/2021 830h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.45	< 2.45	
1,1,2,2-Tetrachloroethane	79-34-5	2.45	< 2.45	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.45	< 2.45	
1,1,2-Trichloroethane	79-00-5	2.45	< 2.45	
1,1-Dichloroethane	75-34-3	2.45	< 2.45	
1,1-Dichloroethene	75-35-4	2.45	< 2.45	
1,2,3-Trichlorobenzene	87-61-6	2.45	< 2.45	
1,2,4-Trichlorobenzene	120-82-1	2.45	< 2.45	
1,2-Dibromo-3-chloropropane	96-12-8	6.13	< 6.13	
1,2-Dibromoethane	106-93-4	2.45	< 2.45	
1,2-Dichlorobenzene	95-50-1	2.45	< 2.45	
1,2-Dichloroethane	107-06-2	2.45	< 2.45	
1,2-Dichloropropane	78-87-5	2.45	< 2.45	
1,3-Dichlorobenzene	541-73-1	2.45	< 2.45	
1,4-Dichlorobenzene	106-46-7	2.45	< 2.45	
1,4-Dioxane	123-91-1	61.3	< 61.3	
2-Butanone	78-93-3	12.3	< 12.3	\$
2-Hexanone	591-78-6	6.13	< 6.13	
4-Methyl-2-pentanone	108-10-1	6.13	< 6.13	
Acetone	67-64-1	12.3	< 12.3	\$
Benzene	71-43-2	2.45	< 2.45	
Bromochloromethane	74-97-5	2.45	< 2.45	
Bromodichloromethane	75-27-4	2.45	< 2.45	
Bromoform	75-25-2	2.45	< 2.45	
Bromomethane	74-83-9	6.13	< 6.13	
Carbon disulfide	75-15-0	2.45	< 2.45	
Carbon tetrachloride	56-23-5	2.45	< 2.45	
Chlorobenzene	108-90-7	2.45	< 2.45	
Chloroethane	75-00-3	2.45	< 2.45	



Lab Sample ID: 2102184-002A
Client Sample ID: MW-12 @ 9'-10'

Analyzed: 2/9/2021 830h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

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Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.45	< 2.45	
Chloromethane	74-87-3	3.68	< 3.68	
cis-1,2-Dichloroethene	156-59-2	2.45	< 2.45	
cis-1,3-Dichloropropene	10061-01-5	2.45	< 2.45	
Cyclohexane	110-82-7	2.45	< 2.45	
Dibromochloromethane	124-48-1	2.45	< 2.45	
Dichlorodifluoromethane	75-71-8	2.45	< 2.45	#
Ethylbenzene	100-41-4	2.45	< 2.45	
Isopropylbenzene	98-82-8	2.45	< 2.45	
m,p-Xylene	179601-23-1	2.45	< 2.45	
Methyl Acetate	79-20-9	6.13	< 6.13	
Methyl tert-butyl ether	1634-04-4	2.45	< 2.45	
Methylcyclohexane	108-87-2	2.45	< 2.45	
Methylene chloride	75-09-2	6.13	< 6.13	
Naphthalene	91-20-3	2.45	< 2.45	
o-Xylene	95-47-6	2.45	< 2.45	
Styrene	100-42-5	2.45	< 2.45	
Tetrachloroethene	127-18-4	2.45	239	
Toluene	108-88-3	2.45	< 2.45	
trans-1,2-Dichloroethene	156-60-5	2.45	< 2.45	
trans-1,3-Dichloropropene	10061-02-6	2.45	< 2.45	
Trichloroethene	79-01-6	2.45	2.80	
Trichlorofluoromethane	75-69-4	2.45	< 2.45	
Vinyl chloride	75-01-4	1.23	< 1.23	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	70.0	61.31	114	70-132	
Surr: 4-Bromofluorobenzene		460-00-4	59.1	61.31	96.4	70-125	
Surr: Dibromofluoromethane		1868-53-7	58.7	61.31	95.8	70-133	
Surr: Toluene-d8		2037-26-5	59.9	61.31	97.7	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11 to 15 / 1210086
Lab Sample ID: 2102184-003A
Client Sample ID: MW-13 @ 8'-9'
Collection Date: 2/8/2021 1350h
Received Date: 2/8/2021 1630h

Test Code: 8260D-S

Analytical Results

VOAs AWAL List by GC/MS Method 8260D

Analyzed: 2/9/2021 850h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.54	< 2.54	
1,1,2,2-Tetrachloroethane	79-34-5	2.54	< 2.54	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.54	< 2.54	
1,1,2-Trichloroethane	79-00-5	2.54	< 2.54	
1,1-Dichloroethane	75-34-3	2.54	< 2.54	
1,1-Dichloroethene	75-35-4	2.54	< 2.54	
1,2,3-Trichlorobenzene	87-61-6	2.54	< 2.54	
1,2,4-Trichlorobenzene	120-82-1	2.54	< 2.54	
1,2-Dibromo-3-chloropropane	96-12-8	6.35	< 6.35	
1,2-Dibromoethane	106-93-4	2.54	< 2.54	
1,2-Dichlorobenzene	95-50-1	2.54	< 2.54	
1,2-Dichloroethane	107-06-2	2.54	< 2.54	
1,2-Dichloropropane	78-87-5	2.54	< 2.54	
1,3-Dichlorobenzene	541-73-1	2.54	< 2.54	
1,4-Dichlorobenzene	106-46-7	2.54	< 2.54	
1,4-Dioxane	123-91-1	63.5	< 63.5	
2-Butanone	78-93-3	12.7	< 12.7	\$
2-Hexanone	591-78-6	6.35	< 6.35	
4-Methyl-2-pentanone	108-10-1	6.35	< 6.35	
Acetone	67-64-1	12.7	< 12.7	\$
Benzene	71-43-2	2.54	< 2.54	
Bromochloromethane	74-97-5	2.54	< 2.54	
Bromodichloromethane	75-27-4	2.54	< 2.54	
Bromoform	75-25-2	2.54	< 2.54	
Bromomethane	74-83-9	6.35	< 6.35	
Carbon disulfide	75-15-0	2.54	< 2.54	
Carbon tetrachloride	56-23-5	2.54	< 2.54	
Chlorobenzene	108-90-7	2.54	< 2.54	
Chloroethane	75-00-3	2.54	< 2.54	



Lab Sample ID: 2102184-003A

Client Sample ID: MW-13 @ 8'-9'

Analyzed: 2/9/2021 850h

Extracted:

Units: µg/kg-dry

Dilution Factor: 1

Method: SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.54	< 2.54	
Chloromethane	74-87-3	3.81	< 3.81	
cis-1,2-Dichloroethene	156-59-2	2.54	< 2.54	
cis-1,3-Dichloropropene	10061-01-5	2.54	< 2.54	
Cyclohexane	110-82-7	2.54	< 2.54	
Dibromochloromethane	124-48-1	2.54	< 2.54	
Dichlorodifluoromethane	75-71-8	2.54	< 2.54	#
Ethylbenzene	100-41-4	2.54	< 2.54	
Isopropylbenzene	98-82-8	2.54	< 2.54	
m,p-Xylene	179601-23-1	2.54	< 2.54	
Methyl Acetate	79-20-9	6.35	< 6.35	
Methyl tert-butyl ether	1634-04-4	2.54	< 2.54	
Methylcyclohexane	108-87-2	2.54	< 2.54	
Methylene chloride	75-09-2	6.35	< 6.35	
Naphthalene	91-20-3	2.54	< 2.54	
o-Xylene	95-47-6	2.54	< 2.54	
Styrene	100-42-5	2.54	< 2.54	
Tetrachloroethene	127-18-4	2.54	< 2.54	
Toluene	108-88-3	2.54	< 2.54	
trans-1,2-Dichloroethene	156-60-5	2.54	< 2.54	
trans-1,3-Dichloropropene	10061-02-6	2.54	< 2.54	
Trichloroethene	79-01-6	2.54	< 2.54	
Trichlorofluoromethane	75-69-4	2.54	< 2.54	
Vinyl chloride	75-01-4	1.27	< 1.27	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	76.8	63.49	121	70-132	
Surr: 4-Bromofluorobenzene		460-00-4	65.6	63.49	103	70-125	
Surr: Dibromofluoromethane		1868-53-7	64.4	63.49	101	70-133	
Surr: Toluene-d8		2037-26-5	62.6	63.49	98.5	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11 to 15 / 1210086
Lab Sample ID: 2102184-004A
Client Sample ID: MW-14 @ 7'-8'
Collection Date: 2/8/2021 1318h
Received Date: 2/8/2021 1630h Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 2/9/2021 911h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

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Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.53	< 2.53	
1,1,2,2-Tetrachloroethane	79-34-5	2.53	< 2.53	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.53	< 2.53	
1,1,2-Trichloroethane	79-00-5	2.53	< 2.53	
1,1-Dichloroethane	75-34-3	2.53	< 2.53	
1,1-Dichloroethene	75-35-4	2.53	< 2.53	
1,2,3-Trichlorobenzene	87-61-6	2.53	< 2.53	
1,2,4-Trichlorobenzene	120-82-1	2.53	< 2.53	
1,2-Dibromo-3-chloropropane	96-12-8	6.34	< 6.34	
1,2-Dibromoethane	106-93-4	2.53	< 2.53	
1,2-Dichlorobenzene	95-50-1	2.53	< 2.53	
1,2-Dichloroethane	107-06-2	2.53	< 2.53	
1,2-Dichloropropane	78-87-5	2.53	< 2.53	
1,3-Dichlorobenzene	541-73-1	2.53	< 2.53	
1,4-Dichlorobenzene	106-46-7	2.53	< 2.53	
1,4-Dioxane	123-91-1	63.4	< 63.4	
2-Butanone	78-93-3	12.7	< 12.7	\$
2-Hexanone	591-78-6	6.34	< 6.34	
4-Methyl-2-pentanone	108-10-1	6.34	< 6.34	
Acetone	67-64-1	12.7	< 12.7	\$
Benzene	71-43-2	2.53	< 2.53	
Bromochloromethane	74-97-5	2.53	< 2.53	
Bromodichloromethane	75-27-4	2.53	< 2.53	
Bromoform	75-25-2	2.53	< 2.53	
Bromomethane	74-83-9	6.34	< 6.34	
Carbon disulfide	75-15-0	2.53	< 2.53	
Carbon tetrachloride	56-23-5	2.53	< 2.53	
Chlorobenzene	108-90-7	2.53	< 2.53	
Chloroethane	75-00-3	2.53	< 2.53	



Lab Sample ID: 2102184-004A

Client Sample ID: MW-14 @ 7'-8'

Analyzed: 2/9/2021 911h

Extracted:

Units: µg/kg-dry

Dilution Factor: 0.99

Method: SW8260D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.53	< 2.53	
Chloromethane	74-87-3	3.80	< 3.80	
cis-1,2-Dichloroethene	156-59-2	2.53	< 2.53	
cis-1,3-Dichloropropene	10061-01-5	2.53	< 2.53	
Cyclohexane	110-82-7	2.53	< 2.53	
Dibromochloromethane	124-48-1	2.53	< 2.53	
Dichlorodifluoromethane	75-71-8	2.53	< 2.53	#
Ethylbenzene	100-41-4	2.53	< 2.53	
Isopropylbenzene	98-82-8	2.53	< 2.53	
m,p-Xylene	179601-23-1	2.53	< 2.53	
Methyl Acetate	79-20-9	6.34	< 6.34	
Methyl tert-butyl ether	1634-04-4	2.53	< 2.53	
Methylcyclohexane	108-87-2	2.53	< 2.53	
Methylene chloride	75-09-2	6.34	< 6.34	
Naphthalene	91-20-3	2.53	< 2.53	
o-Xylene	95-47-6	2.53	< 2.53	
Styrene	100-42-5	2.53	< 2.53	
Tetrachloroethene	127-18-4	2.53	31.8	
Toluene	108-88-3	2.53	< 2.53	
trans-1,2-Dichloroethene	156-60-5	2.53	< 2.53	
trans-1,3-Dichloropropene	10061-02-6	2.53	< 2.53	
Trichloroethene	79-01-6	2.53	< 2.53	
Trichlorofluoromethane	75-69-4	2.53	< 2.53	
Vinyl chloride	75-01-4	1.27	< 1.27	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	73.3	63.37	116	70-132	
Surr: 4-Bromofluorobenzene		460-00-4	64.6	63.37	102	70-125	
Surr: Dibromofluoromethane		1868-53-7	63.7	63.37	101	70-133	
Surr: Toluene-d8		2037-26-5	61.6	63.37	97.3	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11 to 15 / 1210086
Lab Sample ID: 2102184-005A
Client Sample ID: MW-15 @ 6'-7'
Collection Date: 2/8/2021 1240h
Received Date: 2/8/2021 1630h

Test Code: 8260D-S

Analytical Results

VOAs AWAL List by GC/MS Method 8260D

Analyzed: 2/9/2021 1011h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.53	< 2.53	
1,1,2,2-Tetrachloroethane	79-34-5	2.53	< 2.53	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.53	< 2.53	
1,1,2-Trichloroethane	79-00-5	2.53	< 2.53	
1,1-Dichloroethane	75-34-3	2.53	< 2.53	
1,1-Dichloroethene	75-35-4	2.53	< 2.53	
1,2,3-Trichlorobenzene	87-61-6	2.53	< 2.53	
1,2,4-Trichlorobenzene	120-82-1	2.53	< 2.53	
1,2-Dibromo-3-chloropropane	96-12-8	6.32	< 6.32	
1,2-Dibromoethane	106-93-4	2.53	< 2.53	
1,2-Dichlorobenzene	95-50-1	2.53	< 2.53	
1,2-Dichloroethane	107-06-2	2.53	< 2.53	
1,2-Dichloropropane	78-87-5	2.53	< 2.53	
1,3-Dichlorobenzene	541-73-1	2.53	< 2.53	
1,4-Dichlorobenzene	106-46-7	2.53	< 2.53	
1,4-Dioxane	123-91-1	63.2	< 63.2	
2-Butanone	78-93-3	12.6	< 12.6	\$
2-Hexanone	591-78-6	6.32	< 6.32	
4-Methyl-2-pentanone	108-10-1	6.32	< 6.32	
Acetone	67-64-1	12.6	< 12.6	\$
Benzene	71-43-2	2.53	< 2.53	
Bromochloromethane	74-97-5	2.53	< 2.53	
Bromodichloromethane	75-27-4	2.53	< 2.53	
Bromoform	75-25-2	2.53	< 2.53	
Bromomethane	74-83-9	6.32	< 6.32	
Carbon disulfide	75-15-0	2.53	< 2.53	
Carbon tetrachloride	56-23-5	2.53	< 2.53	
Chlorobenzene	108-90-7	2.53	< 2.53	
Chloroethane	75-00-3	2.53	< 2.53	



Lab Sample ID: 2102184-005A

Client Sample ID: MW-15 @ 6'-7'

Analyzed: 2/9/2021 1011h

Extracted:

Units: µg/kg-dry

Dilution Factor: 1

Method: SW8260D

3440 South 700 West
Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.53	< 2.53	
Chloromethane	74-87-3	3.79	< 3.79	
cis-1,2-Dichloroethene	156-59-2	2.53	< 2.53	
cis-1,3-Dichloropropene	10061-01-5	2.53	< 2.53	
Cyclohexane	110-82-7	2.53	< 2.53	
Dibromochloromethane	124-48-1	2.53	< 2.53	
Dichlorodifluoromethane	75-71-8	2.53	< 2.53	#
Ethylbenzene	100-41-4	2.53	< 2.53	
Isopropylbenzene	98-82-8	2.53	< 2.53	
m,p-Xylene	179601-23-1	2.53	< 2.53	
Methyl Acetate	79-20-9	6.32	< 6.32	
Methyl tert-butyl ether	1634-04-4	2.53	< 2.53	
Methylcyclohexane	108-87-2	2.53	< 2.53	
Methylene chloride	75-09-2	6.32	< 6.32	
Naphthalene	91-20-3	2.53	< 2.53	
o-Xylene	95-47-6	2.53	< 2.53	
Styrene	100-42-5	2.53	< 2.53	
Tetrachloroethene	127-18-4	2.53	103	
Toluene	108-88-3	2.53	< 2.53	
trans-1,2-Dichloroethene	156-60-5	2.53	< 2.53	
trans-1,3-Dichloropropene	10061-02-6	2.53	< 2.53	
Trichloroethene	79-01-6	2.53	< 2.53	
Trichlorofluoromethane	75-69-4	2.53	< 2.53	
Vinyl chloride	75-01-4	1.26	< 1.26	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	72.3	63.19	114	70-132	
Surr: 4-Bromofluorobenzene		460-00-4	62.4	63.19	98.7	70-125	
Surr: Dibromofluoromethane		1868-53-7	60.0	63.19	95.0	70-133	
Surr: Toluene-d8		2037-26-5	60.2	63.19	95.2	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 020921A	Date Analyzed:	02/09/2021 730h											
Test Code: 8260D-S													
1,1,1-Trichloroethane	20.2	µg/kg	SW8260D	0.231	2.00	20.00	0	101	64 - 137				
1,1,2,2-Tetrachloroethane	19.7	µg/kg	SW8260D	0.370	2.00	20.00	0	98.7	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	19.4	µg/kg	SW8260D	0.934	2.00	20.00	0	97.0	37 - 170				
1,1,2-Trichloroethane	19.4	µg/kg	SW8260D	0.196	2.00	20.00	0	96.8	80 - 117				
1,1-Dichloroethane	18.0	µg/kg	SW8260D	0.131	2.00	20.00	0	89.8	70 - 175				
1,1-Dichloroethene	17.1	µg/kg	SW8260D	0.675	2.00	20.00	0	85.5	42 - 210				
1,2,3-Trichlorobenzene	18.1	µg/kg	SW8260D	1.03	2.00	20.00	0	90.4	36 - 135				
1,2,4-Trichlorobenzene	17.3	µg/kg	SW8260D	1.18	2.00	20.00	0	86.5	21 - 140				
1,2-Dibromo-3-chloropropane	20.0	µg/kg	SW8260D	0.785	5.00	20.00	0	99.9	62 - 132				
1,2-Dibromoethane	19.5	µg/kg	SW8260D	0.306	2.00	20.00	0	97.4	76 - 125				
1,2-Dichlorobenzene	18.7	µg/kg	SW8260D	0.678	2.00	20.00	0	93.3	56 - 125				
1,2-Dichloroethane	20.6	µg/kg	SW8260D	0.118	2.00	20.00	0	103	79 - 135				
1,2-Dichloropropane	18.7	µg/kg	SW8260D	0.820	2.00	20.00	0	93.4	68 - 133				
1,3-Dichlorobenzene	18.8	µg/kg	SW8260D	1.03	2.00	20.00	0	94.0	45 - 135				
1,4-Dichlorobenzene	18.5	µg/kg	SW8260D	0.850	2.00	20.00	0	92.4	43 - 135				
1,4-Dioxane	170	µg/kg	SW8260D	27.7	50.0	200.0	0	84.8	58 - 146				
2-Butanone	22.1	µg/kg	SW8260D	1.31	10.0	20.00	0	111	56 - 184				
2-Hexanone	20.8	µg/kg	SW8260D	0.836	5.00	20.00	0	104	61 - 192				
4-Methyl-2-pentanone	19.8	µg/kg	SW8260D	0.534	5.00	20.00	0	99.2	58 - 145				
Acetone	26.9	µg/kg	SW8260D	8.29	10.0	20.00	0	134	17 - 296				
Benzene	19.3	µg/kg	SW8260D	0.360	2.00	20.00	0	96.3	70 - 140				
Bromochloromethane	17.4	µg/kg	SW8260D	0.239	2.00	20.00	0	87.2	69 - 123				
Bromodichloromethane	18.9	µg/kg	SW8260D	0.983	2.00	20.00	0	94.4	76 - 140				
Bromoform	18.6	µg/kg	SW8260D	0.319	2.00	20.00	0	93.2	71 - 175				
Bromomethane	15.9	µg/kg	SW8260D	2.61	5.00	20.00	0	79.5	10 - 168				
Carbon disulfide	16.4	µg/kg	SW8260D	0.247	2.00	20.00	0	82.0	31 - 174				
Carbon tetrachloride	19.7	µg/kg	SW8260D	0.419	2.00	20.00	0	98.4	58 - 145				
Chlorobenzene	17.3	µg/kg	SW8260D	0.544	2.00	20.00	0	86.6	61 - 125				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 020921A	Date Analyzed:	02/09/2021 730h											
Test Code: 8260D-S													
Chloroethane	15.5	µg/kg	SW8260D	1.24	2.00	20.00	0	77.6	10 - 161				
Chloroform	17.4	µg/kg	SW8260D	0.218	2.00	20.00	0	87.2	74 - 135				
Chloromethane	16.3	µg/kg	SW8260D	2.26	3.00	20.00	0	81.7	30 - 149				
cis-1,2-Dichloroethene	17.1	µg/kg	SW8260D	0.329	2.00	20.00	0	85.3	63 - 142				
cis-1,3-Dichloropropene	18.9	µg/kg	SW8260D	0.359	2.00	20.00	0	94.3	67 - 127				
Cyclohexane	21.5	µg/kg	SW8260D	0.800	2.00	20.00	0	108	44 - 162				
Dibromochloromethane	18.4	µg/kg	SW8260D	0.136	2.00	20.00	0	91.8	76 - 121				
Dichlorodifluoromethane	19.8	µg/kg	SW8260D	1.39	2.00	20.00	0	99.2	20 - 130				
Ethylbenzene	18.2	µg/kg	SW8260D	0.675	2.00	20.00	0	90.8	52 - 140				
Isopropylbenzene	18.6	µg/kg	SW8260D	1.85	2.00	20.00	0	92.8	50 - 140				
m,p-Xylene	40.0	µg/kg	SW8260D	0.942	2.00	40.00	0	99.9	44 - 142				
Methyl Acetate	31.9	µg/kg	SW8260D	2.21	5.00	20.00	0	160	70 - 240				
Methyl tert-butyl ether	18.0	µg/kg	SW8260D	0.210	2.00	20.00	0	89.8	60 - 128				
Methylcyclohexane	25.3	µg/kg	SW8260D	1.46	2.00	20.00	0	126	41 - 171				
Methylene chloride	15.1	µg/kg	SW8260D	1.81	5.00	20.00	0	75.7	10 - 128				
Naphthalene	17.9	µg/kg	SW8260D	1.06	2.00	20.00	0	89.6	43 - 135				
o-Xylene	17.9	µg/kg	SW8260D	0.696	2.00	20.00	0	89.5	44 - 142				
Styrene	18.3	µg/kg	SW8260D	0.739	2.00	20.00	0	91.4	56 - 140				
Tetrachloroethene	19.9	µg/kg	SW8260D	0.533	2.00	20.00	0	99.5	40 - 200				
Toluene	22.3	µg/kg	SW8260D	0.612	2.00	20.00	0	111	54 - 132				
trans-1,2-Dichloroethene	16.3	µg/kg	SW8260D	0.261	2.00	20.00	0	81.4	57 - 175				
trans-1,3-Dichloropropene	19.6	µg/kg	SW8260D	0.341	2.00	20.00	0	98.2	66 - 117				
Trichloroethene	18.4	µg/kg	SW8260D	0.390	2.00	20.00	0	91.9	61 - 143				
Trichlorofluoromethane	20.1	µg/kg	SW8260D	0.236	2.00	20.00	0	101	10 - 140				
Vinyl chloride	16.8	µg/kg	SW8260D	0.228	1.00	20.00	0	83.9	47 - 135				
Surr: 1,2-Dichloroethane-d4	53.9	µg/kg	SW8260D			50.00		108	70 - 132				
Surr: 4-Bromofluorobenzene	49.9	µg/kg	SW8260D			50.00		99.8	70 - 125				
Surr: Dibromofluoromethane	47.2	µg/kg	SW8260D			50.00		94.5	70 - 133				



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Kyle F. Gross
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Jose Rocha
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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 020921A Date Analyzed: 02/09/2021 730h													
Test Code: 8260D-S													
Surr: Toluene-d8	47.8	µg/kg	SW8260D			50.00		95.5	70 - 123				



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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 020921A	Date Analyzed:	02/09/2021 750h											
Test Code: 8260D-S													
1,1,1-Trichloroethane	< 2.00	µg/kg	SW8260D	0.231	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/kg	SW8260D	0.370	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/kg	SW8260D	0.934	2.00								
1,1,2-Trichloroethane	< 2.00	µg/kg	SW8260D	0.196	2.00								
1,1-Dichloroethane	< 2.00	µg/kg	SW8260D	0.131	2.00								
1,1-Dichloroethene	< 2.00	µg/kg	SW8260D	0.675	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.18	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/kg	SW8260D	0.785	5.00								
1,2-Dibromoethane	< 2.00	µg/kg	SW8260D	0.306	2.00								
1,2-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.678	2.00								
1,2-Dichloroethane	< 2.00	µg/kg	SW8260D	0.118	2.00								
1,2-Dichloropropane	< 2.00	µg/kg	SW8260D	0.820	2.00								
1,3-Dichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,4-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.850	2.00								
1,4-Dioxane	< 50.0	µg/kg	SW8260D	27.7	50.0								
2-Butanone	< 10.0	µg/kg	SW8260D	1.31	10.0								
2-Hexanone	< 5.00	µg/kg	SW8260D	0.836	5.00								
4-Methyl-2-pentanone	< 5.00	µg/kg	SW8260D	0.534	5.00								
Acetone	< 10.0	µg/kg	SW8260D	8.29	10.0								
Benzene	< 2.00	µg/kg	SW8260D	0.360	2.00								
Bromochloromethane	< 2.00	µg/kg	SW8260D	0.239	2.00								
Bromodichloromethane	< 2.00	µg/kg	SW8260D	0.983	2.00								
Bromoform	< 2.00	µg/kg	SW8260D	0.319	2.00								
Bromomethane	< 5.00	µg/kg	SW8260D	2.61	5.00								
Carbon disulfide	< 2.00	µg/kg	SW8260D	0.247	2.00								
Carbon tetrachloride	< 2.00	µg/kg	SW8260D	0.419	2.00								
Chlorobenzene	< 2.00	µg/kg	SW8260D	0.544	2.00								



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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 020921A	Date Analyzed:	02/09/2021 750h											
Test Code: 8260D-S													
Chloroethane	< 2.00	µg/kg	SW8260D	1.24	2.00								
Chloroform	< 2.00	µg/kg	SW8260D	0.218	2.00								
Chloromethane	< 3.00	µg/kg	SW8260D	2.26	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.329	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.359	2.00								
Cyclohexane	< 2.00	µg/kg	SW8260D	0.800	2.00								
Dibromochloromethane	< 2.00	µg/kg	SW8260D	0.136	2.00								
Dichlorodifluoromethane	< 2.00	µg/kg	SW8260D	1.39	2.00								
Ethylbenzene	< 2.00	µg/kg	SW8260D	0.675	2.00								
Isopropylbenzene	< 2.00	µg/kg	SW8260D	1.85	2.00								
m,p-Xylene	< 2.00	µg/kg	SW8260D	0.942	2.00								
Methyl Acetate	< 5.00	µg/kg	SW8260D	2.21	5.00								
Methyl tert-butyl ether	< 2.00	µg/kg	SW8260D	0.210	2.00								
Methylcyclohexane	< 2.00	µg/kg	SW8260D	1.46	2.00								
Methylene chloride	< 5.00	µg/kg	SW8260D	1.81	5.00								
Naphthalene	< 2.00	µg/kg	SW8260D	1.06	2.00								
o-Xylene	< 2.00	µg/kg	SW8260D	0.696	2.00								
Styrene	< 2.00	µg/kg	SW8260D	0.739	2.00								
Tetrachloroethene	< 2.00	µg/kg	SW8260D	0.533	2.00								
Toluene	< 2.00	µg/kg	SW8260D	0.612	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.261	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.341	2.00								
Trichloroethene	< 2.00	µg/kg	SW8260D	0.390	2.00								
Trichlorofluoromethane	< 2.00	µg/kg	SW8260D	0.236	2.00								
Vinyl chloride	< 1.00	µg/kg	SW8260D	0.228	1.00								
Surr: 1,2-Dichloroethane-d4	55.1	µg/kg	SW8260D			50.00		110	70 - 132				
Surr: 4-Bromofluorobenzene	50.6	µg/kg	SW8260D			50.00		101	68 - 125				
Surr: Dibromofluoromethane	46.9	µg/kg	SW8260D			50.00		93.7	70 - 133				



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102184

Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 020921A	Date Analyzed: 02/09/2021 750h												
Test Code: 8260D-S													
Surr: Toluene-d8	47.5	µg/kg	SW8260D			50.00		95.0	61 - 123				



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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102184-004AMS		Date Analyzed: 02/09/2021 931h											
Test Code: 8260D-S													
1,1,1-Trichloroethane	24.9	µg/kg-dry	SW8260D	0.293	2.53	25.35	0	98.1	64 - 137				
1,1,2,2-Tetrachloroethane	23.5	µg/kg-dry	SW8260D	0.469	2.53	25.35	0	92.9	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	23.8	µg/kg-dry	SW8260D	1.18	2.53	25.35	0	93.8	37 - 170				
1,1,2-Trichloroethane	23.4	µg/kg-dry	SW8260D	0.248	2.53	25.35	0	92.5	80 - 117				
1,1-Dichloroethane	22.1	µg/kg-dry	SW8260D	0.166	2.53	25.35	0	87.4	70 - 175				
1,1-Dichloroethene	21.7	µg/kg-dry	SW8260D	0.855	2.53	25.35	0	85.5	42 - 210				
1,2,3-Trichlorobenzene	17.8	µg/kg-dry	SW8260D	1.31	2.53	25.35	0	70.4	36 - 135				
1,2,4-Trichlorobenzene	18.5	µg/kg-dry	SW8260D	1.50	2.53	25.35	0	72.9	21 - 140				
1,2-Dibromo-3-chloropropane	21.2	µg/kg-dry	SW8260D	0.995	6.34	25.35	0	83.7	62 - 132				
1,2-Dibromoethane	23.3	µg/kg-dry	SW8260D	0.388	2.53	25.35	0	91.8	76 - 125				
1,2-Dichlorobenzene	22.4	µg/kg-dry	SW8260D	0.859	2.53	25.35	0	88.4	56 - 125				
1,2-Dichloroethane	26.4	µg/kg-dry	SW8260D	0.150	2.53	25.35	0	104	79 - 135				
1,2-Dichloropropane	22.7	µg/kg-dry	SW8260D	1.04	2.53	25.35	0	89.4	68 - 133				
1,3-Dichlorobenzene	22.8	µg/kg-dry	SW8260D	1.31	2.53	25.35	0	90.0	45 - 135				
1,4-Dichlorobenzene	23.3	µg/kg-dry	SW8260D	1.08	2.53	25.35	0	92.0	43 - 135				
1,4-Dioxane	198	µg/kg-dry	SW8260D	35.1	63.4	253.5	0	78.0	58 - 146				
2-Butanone	40.9	µg/kg-dry	SW8260D	1.66	12.7	25.35	0	161	56 - 184				
2-Hexanone	30.4	µg/kg-dry	SW8260D	1.06	6.34	25.35	0	120	61 - 192				
4-Methyl-2-pentanone	22.6	µg/kg-dry	SW8260D	0.677	6.34	25.35	0	89.1	58 - 145				
Acetone	50.4	µg/kg-dry	SW8260D	10.5	12.7	25.35	0	199	17 - 296				
Benzene	23.0	µg/kg-dry	SW8260D	0.456	2.53	25.35	0	90.8	70 - 140				
Bromochloromethane	21.3	µg/kg-dry	SW8260D	0.303	2.53	25.35	0	84.2	69 - 123				
Bromodichloromethane	24.0	µg/kg-dry	SW8260D	1.25	2.53	25.35	0	94.7	76 - 140				
Bromoform	22.3	µg/kg-dry	SW8260D	0.404	2.53	25.35	0	88.0	71 - 175				
Bromomethane	18.2	µg/kg-dry	SW8260D	3.31	6.34	25.35	0	71.8	10 - 168				
Carbon disulfide	20.0	µg/kg-dry	SW8260D	0.313	2.53	25.35	0	78.8	31 - 174				
Carbon tetrachloride	23.7	µg/kg-dry	SW8260D	0.531	2.53	25.35	0	93.7	58 - 145				
Chlorobenzene	21.4	µg/kg-dry	SW8260D	0.689	2.53	25.35	0	84.6	61 - 125				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102184-004AMS	Date Analyzed: 02/09/2021 931h												
Test Code: 8260D-S													
Chloroethane	20.9	µg/kg-dry	SW8260D	1.57	2.53	25.35	0	82.3	10 - 161				
Chloroform	22.3	µg/kg-dry	SW8260D	0.276	2.53	25.35	0	87.9	74 - 135				
Chloromethane	20.9	µg/kg-dry	SW8260D	2.86	3.80	25.35	0	82.6	30 - 149				
cis-1,2-Dichloroethene	20.8	µg/kg-dry	SW8260D	0.417	2.53	25.35	0	81.9	63 - 142				
cis-1,3-Dichloropropene	22.4	µg/kg-dry	SW8260D	0.455	2.53	25.35	0	88.6	67 - 127				
Cyclohexane	20.4	µg/kg-dry	SW8260D	1.01	2.53	25.35	0	80.6	44 - 162				
Dibromochloromethane	22.3	µg/kg-dry	SW8260D	0.172	2.53	25.35	0	88.0	76 - 121				
Dichlorodifluoromethane	24.8	µg/kg-dry	SW8260D	1.76	2.53	25.35	0	97.9	20 - 130				
Ethylbenzene	21.8	µg/kg-dry	SW8260D	0.855	2.53	25.35	0	86.0	52 - 140				
Isopropylbenzene	22.4	µg/kg-dry	SW8260D	2.34	2.53	25.35	0	88.2	50 - 140				
m,p-Xylene	46.8	µg/kg-dry	SW8260D	1.19	2.53	50.69	0	92.3	44 - 142				
Methyl Acetate	55.9	µg/kg-dry	SW8260D	2.80	6.34	25.35	0	220	70 - 240				
Methyl tert-butyl ether	22.1	µg/kg-dry	SW8260D	0.266	2.53	25.35	0	87.3	60 - 128				
Methylcyclohexane	22.9	µg/kg-dry	SW8260D	1.85	2.53	25.35	0	90.2	41 - 171				
Methylene chloride	20.2	µg/kg-dry	SW8260D	2.29	6.34	25.35	0	79.9	10 - 128				
Naphthalene	17.7	µg/kg-dry	SW8260D	1.34	2.53	25.35	0	69.8	43 - 135				
o-Xylene	21.2	µg/kg-dry	SW8260D	0.882	2.53	25.35	0	83.5	44 - 142				
Styrene	22.0	µg/kg-dry	SW8260D	0.937	2.53	25.35	0	86.8	56 - 140				
Tetrachloroethene	71.9	µg/kg-dry	SW8260D	0.675	2.53	25.35	31.8	158	40 - 200				
Toluene	22.7	µg/kg-dry	SW8260D	0.776	2.53	25.35	0	89.5	54 - 132				
trans-1,2-Dichloroethene	21.3	µg/kg-dry	SW8260D	0.331	2.53	25.35	0	83.9	57 - 175				
trans-1,3-Dichloropropene	23.9	µg/kg-dry	SW8260D	0.432	2.53	25.35	0	94.3	66 - 117				
Trichloroethene	23.6	µg/kg-dry	SW8260D	0.494	2.53	25.35	0	93.0	61 - 143				
Trichlorofluoromethane	24.9	µg/kg-dry	SW8260D	0.299	2.53	25.35	0	98.1	10 - 140				
Vinyl chloride	20.9	µg/kg-dry	SW8260D	0.289	1.27	25.35	0	82.7	47 - 135				
Surr: 1,2-Dichloroethane-d4	70.6	µg/kg-dry	SW8260D			63.37		111	70 - 132				
Surr: 4-Bromofluorobenzene	63.8	µg/kg-dry	SW8260D			63.37		101	70 - 125				
Surr: Dibromofluoromethane	61.6	µg/kg-dry	SW8260D			63.37		97.3	70 - 133				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102184

Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102184-004AMS	Date Analyzed: 02/09/2021 931h												
Test Code: 8260D-S													
Surr: Toluene-d8	63.9	µg/kg-dry	SW8260D			63.37		101	70 - 123				



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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102184-004AMSD	Date Analyzed: 02/09/2021 951h												
Test Code: 8260D-S													
1,1,1-Trichloroethane	23.7	µg/kg-dry	SW8260D	0.296	2.56	25.60	0	92.4	64 - 137	24.9	4.93	35	
1,1,2,2-Tetrachloroethane	23.5	µg/kg-dry	SW8260D	0.474	2.56	25.60	0	91.9	74 - 150	23.5	0.0234	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	22.0	µg/kg-dry	SW8260D	1.20	2.56	25.60	0	86.1	37 - 170	23.8	7.61	35	
1,1,2-Trichloroethane	23.3	µg/kg-dry	SW8260D	0.251	2.56	25.60	0	91.2	80 - 117	23.4	0.411	35	
1,1-Dichloroethane	21.0	µg/kg-dry	SW8260D	0.168	2.56	25.60	0	82.1	70 - 175	22.1	5.19	35	
1,1-Dichloroethene	19.6	µg/kg-dry	SW8260D	0.864	2.56	25.60	0	76.6	42 - 210	21.7	9.99	35	
1,2,3-Trichlorobenzene	19.5	µg/kg-dry	SW8260D	1.32	2.56	25.60	0	76.3	36 - 135	17.8	9.12	35	
1,2,4-Trichlorobenzene	19.5	µg/kg-dry	SW8260D	1.51	2.56	25.60	0	76.4	21 - 140	18.5	5.70	35	
1,2-Dibromo-3-chloropropane	23.7	µg/kg-dry	SW8260D	1.00	6.40	25.60	0	92.6	62 - 132	21.2	11.2	35	
1,2-Dibromoethane	23.2	µg/kg-dry	SW8260D	0.392	2.56	25.60	0	90.6	76 - 125	23.3	0.366	35	
1,2-Dichlorobenzene	22.3	µg/kg-dry	SW8260D	0.868	2.56	25.60	0	87.1	56 - 125	22.4	0.534	35	
1,2-Dichloroethane	26.2	µg/kg-dry	SW8260D	0.151	2.56	25.60	0	102	79 - 135	26.4	0.738	35	
1,2-Dichloropropane	22.9	µg/kg-dry	SW8260D	1.05	2.56	25.60	0	89.6	68 - 133	22.7	1.23	35	
1,3-Dichlorobenzene	22.5	µg/kg-dry	SW8260D	1.32	2.56	25.60	0	87.9	45 - 135	22.8	1.30	35	
1,4-Dichlorobenzene	22.7	µg/kg-dry	SW8260D	1.09	2.56	25.60	0	88.7	43 - 135	23.3	2.70	35	
1,4-Dioxane	221	µg/kg-dry	SW8260D	35.5	64.0	256.0	0	86.5	58 - 146	198	11.3	35	
2-Butanone	38.5	µg/kg-dry	SW8260D	1.68	12.8	25.60	0	150	56 - 184	40.9	5.93	35	
2-Hexanone	30.9	µg/kg-dry	SW8260D	1.07	6.40	25.60	0	121	61 - 192	30.4	1.59	35	
4-Methyl-2-pentanone	25.2	µg/kg-dry	SW8260D	0.684	6.40	25.60	0	98.6	58 - 145	22.6	11.2	35	
Acetone	54.5	µg/kg-dry	SW8260D	10.6	12.8	25.60	0	213	17 - 296	50.4	7.88	35	
Benzene	21.3	µg/kg-dry	SW8260D	0.461	2.56	25.60	0	83.3	70 - 140	23	7.62	35	
Bromochloromethane	20.9	µg/kg-dry	SW8260D	0.306	2.56	25.60	0	81.5	69 - 123	21.3	2.19	35	
Bromodichloromethane	23.4	µg/kg-dry	SW8260D	1.26	2.56	25.60	0	91.6	76 - 140	24	2.38	35	
Bromoform	22.7	µg/kg-dry	SW8260D	0.408	2.56	25.60	0	88.6	71 - 175	22.3	1.74	35	
Bromomethane	18.2	µg/kg-dry	SW8260D	3.34	6.40	25.60	0	71.0	10 - 168	18.2	0.116	35	
Carbon disulfide	18.4	µg/kg-dry	SW8260D	0.316	2.56	25.60	0	72.0	31 - 174	20	8.02	35	
Carbon tetrachloride	22.2	µg/kg-dry	SW8260D	0.536	2.56	25.60	0	86.8	58 - 145	23.7	6.64	35	
Chlorobenzene	20.7	µg/kg-dry	SW8260D	0.696	2.56	25.60	0	80.9	61 - 125	21.4	3.53	35	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102184-004AMSD	Date Analyzed:	02/09/2021 951h											
Test Code: 8260D-S													
Chloroethane	18.8	µg/kg-dry	SW8260D	1.59	2.56	25.60	0	73.6	10 - 161	20.9	10.2	35	
Chloroform	20.9	µg/kg-dry	SW8260D	0.279	2.56	25.60	0	81.8	74 - 135	22.3	6.25	35	
Chloromethane	19.4	µg/kg-dry	SW8260D	2.89	3.84	25.60	0	75.7	30 - 149	20.9	7.72	35	
cis-1,2-Dichloroethene	20.5	µg/kg-dry	SW8260D	0.421	2.56	25.60	0	80.1	63 - 142	20.8	1.22	35	
cis-1,3-Dichloropropene	22.6	µg/kg-dry	SW8260D	0.460	2.56	25.60	0	88.4	67 - 127	22.4	0.779	35	
Cyclohexane	18.2	µg/kg-dry	SW8260D	1.02	2.56	25.60	0	71.1	44 - 162	20.4	11.5	35	
Dibromochloromethane	22.6	µg/kg-dry	SW8260D	0.174	2.56	25.60	0	88.5	76 - 121	22.3	1.52	35	
Dichlorodifluoromethane	22.1	µg/kg-dry	SW8260D	1.78	2.56	25.60	0	86.2	20 - 130	24.8	11.7	35	
Ethylbenzene	20.6	µg/kg-dry	SW8260D	0.864	2.56	25.60	0	80.5	52 - 140	21.8	5.61	35	
Isopropylbenzene	21.1	µg/kg-dry	SW8260D	2.37	2.56	25.60	0	82.5	50 - 140	22.4	5.67	35	
m,p-Xylene	43.7	µg/kg-dry	SW8260D	1.21	2.56	51.20	0	85.3	44 - 142	46.8	6.94	35	
Methyl Acetate	57.7	µg/kg-dry	SW8260D	2.83	6.40	25.60	0	225	70 - 240	55.9	3.23	35	
Methyl tert-butyl ether	22.0	µg/kg-dry	SW8260D	0.269	2.56	25.60	0	86.0	60 - 128	22.1	0.438	35	
Methylcyclohexane	21.3	µg/kg-dry	SW8260D	1.87	2.56	25.60	0	83.4	41 - 171	22.9	6.89	35	
Methylene chloride	19.3	µg/kg-dry	SW8260D	2.32	6.40	25.60	0	75.4	10 - 128	20.2	4.73	35	
Naphthalene	20.0	µg/kg-dry	SW8260D	1.36	2.56	25.60	0	78.1	43 - 135	17.7	12.3	35	
o-Xylene	20.4	µg/kg-dry	SW8260D	0.891	2.56	25.60	0	79.5	44 - 142	21.2	3.90	35	
Styrene	21.0	µg/kg-dry	SW8260D	0.946	2.56	25.60	0	82.1	56 - 140	22	4.62	35	
Tetrachloroethene	56.2	µg/kg-dry	SW8260D	0.682	2.56	25.60	31.8	95.3	40 - 200	71.9	24.5	35	
Toluene	21.2	µg/kg-dry	SW8260D	0.783	2.56	25.60	0	83.0	54 - 132	22.7	6.54	35	
trans-1,2-Dichloroethene	19.4	µg/kg-dry	SW8260D	0.334	2.56	25.60	0	76.0	57 - 175	21.3	8.88	35	
trans-1,3-Dichloropropene	23.9	µg/kg-dry	SW8260D	0.437	2.56	25.60	0	93.2	66 - 117	23.9	0.168	35	
Trichloroethene	22.0	µg/kg-dry	SW8260D	0.499	2.56	25.60	0	86.1	61 - 143	23.6	6.76	35	
Trichlorofluoromethane	23.2	µg/kg-dry	SW8260D	0.302	2.56	25.60	0	90.8	10 - 140	24.9	6.78	35	
Vinyl chloride	18.4	µg/kg-dry	SW8260D	0.292	1.28	25.60	0	72.0	47 - 135	20.9	12.8	35	
Surr: 1,2-Dichloroethane-d4	71.7	µg/kg-dry	SW8260D			64.01		112	70 - 132				
Surr: 4-Bromofluorobenzene	62.8	µg/kg-dry	SW8260D			64.01		98.0	70 - 125				
Surr: Dibromofluoromethane	62.5	µg/kg-dry	SW8260D			64.01		97.6	70 - 133				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102184
Project: Forseys Cleaners Wells 11 to 15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102184-004AMSD		Date Analyzed: 02/09/2021 951h											
Test Code: 8260D-S													
Surr: Toluene-d8	62.4	µg/kg-dry	SW8260D			64.01		97.5	70 - 123				

WORK ORDER Summary

Work Order: **2102184**

Page 1 of 1

Client: Applied Geotechnical

Due Date: 2/15/2021

Client ID: APP100

Contact: Joe DeGooyer

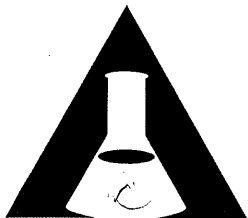
Project: Forseys Cleaners Wells 11 to 15 / 1210086

QC Level: II+

WO Type: Standard

Comments: 5 Day Rush / QC2+;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
2102184-001A	MW-11 @ 7'-8'	2/8/2021 1015h	2/8/2021 1630h	8260D-S	Soil		Purge 2
<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>							
							PMOIST Purge
2102184-002A	MW-12 @ 9'-10'	2/8/2021 1140h	2/8/2021 1630h	8260D-S	Soil		Purge 2
<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>							
							PMOIST Purge
2102184-003A	MW-13 @ 8'-9'	2/8/2021 1350h	2/8/2021 1630h	8260D-S	Soil		Purge 2
<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>							
							PMOIST Purge
2102184-004A	MW-14 @ 7'-8'	2/8/2021 1318h	2/8/2021 1630h	8260D-S	Soil		Purge 2
<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>							
							PMOIST Purge
2102184-005A	MW-15 @ 6'-7'	2/8/2021 1240h	2/8/2021 1630h	8260D-S	Soil		Purge 2
<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>							
							PMOIST Purge



American West Analytical Laboratories

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CHAIN OF CUSTODY

2102184

AWAL Lab Sample Set #

Page of

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

Main Chain of Custody table with columns for QC Level, Turn Around Time, Due Date, and sample details. Includes handwritten entries for QC Level (2+), Turn Around Time (5 Std), Due Date (2/15), and sample site information.

Client: Applied Geotechnical Engineering Consultants
Address: 600 West Sandy Parkway
City, State, Zip: Sandy, UTAH
Contact: Joe DeGooyer
Phone #: 801-566-6399 Cell #: 801-651-5899
E-mail: joed@agcinc.com
Project Name: Forsey's Cleaners Wells # 15
Project #: 1210086
PO #:
Sampler Name: Joe DeGooyer

Table with 5 columns: Sample Site ID, Date Sampled, Time Sampled, # of Containers, Sample Matrix. Contains handwritten data for 5 samples (MW-11 to MW-15).

- Report down to the MDL
Include EDD:
Lab Filter for:
Field Filtered For:
For Compliance With:
NELAP
RCRA
CWA
SDWA
ELAP / A2LA
NLLAP
Non-Compliance
Other:

Due Date: 2/15
Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Laboratory Use Only section with COC Tape Was and Samples Were checkboxes.

Relinquished by and Received by signature blocks with dates and times.

Special Instructions: section for additional notes.



Joe DeGooyer
Applied Geotechnical
600 West Sandy Parkway
Sandy, UT 84070
TEL: (801) 566-6399

RE: Forseys Cleaners Wells 11-15 / 1210086

Dear Joe DeGooyer:

Lab Set ID: 2102282

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 2/10/2021 for the analyses presented in the following report.

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American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-001A
Client Sample ID: MW-11
Collection Date: 2/10/2021 1050h
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 741h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	S
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	



Lab Sample ID: 2102282-001A

Client Sample ID: MW-11

Analyzed: 2/11/2021 741h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	7.29	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.9	50.00	99.8	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.6	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.9	50.00	97.9	78-132	
Surr: Toluene-d8		2037-26-5	50.3	50.00	101	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-002A
Client Sample ID: MW-12
Collection Date: 2/10/2021 1130h
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 1311h **Extracted:**
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrachloroethene	127-18-4	20.0	833	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	502	500.0	100	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	497	500.0	99.4	85-121	
Surr: Dibromofluoromethane		1868-53-7	520	500.0	104	78-132	
Surr: Toluene-d8		2037-26-5	499	500.0	99.9	81-123	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 2/11/2021 801h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Lab Sample ID: 2102282-002A

Client Sample ID: MW-12

Analyzed: 2/11/2021 801h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	\$
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	26.0	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	



Lab Sample ID: 2102282-002A

Client Sample ID: MW-12

Analyzed: 2/11/2021 801h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.3	50.00	98.7	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.1	50.00	100	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.7	50.00	97.4	78-132	
Surr: Toluene-d8		2037-26-5	50.7	50.00	101	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-003A
Client Sample ID: MW-12 Duplicate
Collection Date: 2/10/2021 1140h
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 1414h **Extracted:**
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrachloroethene	127-18-4	20.0	771	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	488	500.0	97.6	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	506	500.0	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	470	500.0	94.0	78-132	
Surr: Toluene-d8		2037-26-5	506	500.0	101	81-123	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 2/11/2021 820h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	

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QA Officer



Lab Sample ID: 2102282-003A

Client Sample ID: MW-12 Duplicate

Analyzed: 2/11/2021 820h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	\$
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	25.8	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	



Lab Sample ID: 2102282-003A

Client Sample ID: MW-12 Duplicate

Analyzed: 2/11/2021 820h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.0	50.00	98.0	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	49.7	50.00	99.3	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.5	50.00	97.0	78-132	
Surr: Toluene-d8		2037-26-5	50.6	50.00	101	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-004A
Client Sample ID: MW-13
Collection Date: 2/10/2021 1220h
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 1252h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	S
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	



Lab Sample ID: 2102282-004A

Client Sample ID: MW-13

Analyzed: 2/11/2021 1252h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.6	50.00	99.3	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	48.0	50.00	96.0	85-121	
Surr: Dibromofluoromethane		1868-53-7	51.9	50.00	104	78-132	
Surr: Toluene-d8		2037-26-5	51.2	50.00	102	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-005A
Client Sample ID: MW-14
Collection Date: 2/10/2021 1310h
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 939h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	S
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	



Lab Sample ID: 2102282-005A

Client Sample ID: MW-14

Analyzed: 2/11/2021 939h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	32.6	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.2	50.00	100	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.9	50.00	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.6	50.00	99.1	78-132	
Surr: Toluene-d8		2037-26-5	50.9	50.00	102	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-006A
Client Sample ID: MW-15
Collection Date: 2/10/2021 1445h
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 958h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	S
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	



Lab Sample ID: 2102282-006A

Client Sample ID: MW-15

Analyzed: 2/11/2021 958h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	135	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	6.19	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.7	50.00	99.5	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.5	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.4	50.00	96.7	78-132	
Surr: Toluene-d8		2037-26-5	50.0	50.00	100	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Wells 11-15 / 1210086
Lab Sample ID: 2102282-007A
Client Sample ID: Trip Blank
Collection Date: 2/10/2021
Received Date: 2/10/2021 1551h Test Code: 8260D-W

Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 2/11/2021 722h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	S
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	



Lab Sample ID: 2102282-007A

Client Sample ID: Trip Blank

Analyzed: 2/11/2021 722h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	48.7	50.00	97.5	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.6	50.00	103	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.0	50.00	97.9	78-132	
Surr: Toluene-d8		2037-26-5	50.5	50.00	101	81-123	

§ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102282
Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 021121A	Date Analyzed:	02/11/2021 640h											
Test Code: 8260D-W													
1,1,1-Trichloroethane	21.2	µg/L	SW8260D	0.326	2.00	20.00	0	106	72 - 132				
1,1,2,2-Tetrachloroethane	20.2	µg/L	SW8260D	0.164	2.00	20.00	0	101	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	23.2	µg/L	SW8260D	2.00	2.00	20.00	0	116	54 - 174				
1,1,2-Trichloroethane	20.2	µg/L	SW8260D	0.143	2.00	20.00	0	101	88 - 126				
1,1-Dichloroethane	22.2	µg/L	SW8260D	1.43	2.00	20.00	0	111	78 - 142				
1,1-Dichloroethene	22.3	µg/L	SW8260D	0.844	2.00	20.00	0	111	37 - 144				
1,2,3-Trichlorobenzene	21.0	µg/L	SW8260D	1.28	2.00	20.00	0	105	60 - 136				
1,2,4-Trichlorobenzene	20.8	µg/L	SW8260D	1.53	2.00	20.00	0	104	45 - 138				
1,2-Dibromo-3-chloropropane	19.0	µg/L	SW8260D	0.295	5.00	20.00	0	95.1	71 - 129				
1,2-Dibromoethane	20.4	µg/L	SW8260D	0.248	2.00	20.00	0	102	77 - 124				
1,2-Dichlorobenzene	21.2	µg/L	SW8260D	0.155	2.00	20.00	0	106	70 - 130				
1,2-Dichloroethane	20.3	µg/L	SW8260D	0.144	2.00	20.00	0	102	76 - 132				
1,2-Dichloropropane	20.8	µg/L	SW8260D	0.282	2.00	20.00	0	104	81 - 135				
1,3-Dichlorobenzene	21.3	µg/L	SW8260D	0.191	2.00	20.00	0	106	71 - 139				
1,4-Dichlorobenzene	20.8	µg/L	SW8260D	0.229	2.00	20.00	0	104	67 - 138				
1,4-Dioxane	195	µg/L	SW8260D	21.5	50.0	200.0	0	97.6	42 - 171				
2-Butanone	20.3	µg/L	SW8260D	1.22	10.0	20.00	0	102	69 - 236				
2-Hexanone	18.9	µg/L	SW8260D	0.225	5.00	20.00	0	94.5	51 - 167				
4-Methyl-2-pentanone	18.3	µg/L	SW8260D	0.296	5.00	20.00	0	91.3	68 - 128				
Acetone	18.1	µg/L	SW8260D	2.76	10.0	20.00	0	90.3	36 - 198				
Benzene	21.2	µg/L	SW8260D	0.147	2.00	20.00	0	106	78 - 125				
Bromochloromethane	20.8	µg/L	SW8260D	0.712	2.00	20.00	0	104	80 - 130				
Bromodichloromethane	19.8	µg/L	SW8260D	0.138	2.00	20.00	0	99.2	85 - 123				
Bromoform	19.0	µg/L	SW8260D	0.151	2.00	20.00	0	95.0	65 - 122				
Bromomethane	13.2	µg/L	SW8260D	3.08	5.00	20.00	0	66.0	10 - 168				
Carbon disulfide	21.4	µg/L	SW8260D	0.823	2.00	20.00	0	107	34 - 178				
Carbon tetrachloride	21.3	µg/L	SW8260D	0.859	2.00	20.00	0	107	66 - 143				
Chlorobenzene	20.7	µg/L	SW8260D	0.154	2.00	20.00	0	104	74 - 126				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 021121A	Date Analyzed:	02/11/2021 640h											
Test Code: 8260D-W													
Chloroethane	22.9	µg/L	SW8260D	1.37	2.00	20.00	0	115	45 - 154				
Chloroform	20.3	µg/L	SW8260D	0.166	2.00	20.00	0	101	74 - 120				
Chloromethane	18.2	µg/L	SW8260D	0.802	3.00	20.00	0	90.9	30 - 149				
cis-1,2-Dichloroethene	21.3	µg/L	SW8260D	0.188	2.00	20.00	0	106	70 - 132				
cis-1,3-Dichloropropene	20.6	µg/L	SW8260D	0.859	2.00	20.00	0	103	84 - 123				
Cyclohexane	20.0	µg/L	SW8260D	0.234	2.00	20.00	0	99.8	43 - 181				
Dibromochloromethane	19.5	µg/L	SW8260D	0.132	2.00	20.00	0	97.6	75 - 123				
Dichlorodifluoromethane	20.4	µg/L	SW8260D	0.430	2.00	20.00	0	102	10 - 165				
Ethylbenzene	21.0	µg/L	SW8260D	0.164	2.00	20.00	0	105	67 - 130				
Isopropylbenzene	21.8	µg/L	SW8260D	0.282	2.00	20.00	0	109	68 - 147				
m,p-Xylene	43.5	µg/L	SW8260D	0.575	2.00	40.00	0	109	69 - 142				
Methyl Acetate	31.0	µg/L	SW8260D	1.27	5.00	20.00	0	155	87 - 300				
Methyl tert-butyl ether	20.1	µg/L	SW8260D	1.60	2.00	20.00	0	100	58 - 135				
Methylcyclohexane	20.5	µg/L	SW8260D	0.569	2.00	20.00	0	102	55 - 151				
Methylene chloride	20.2	µg/L	SW8260D	0.381	2.00	20.00	0	101	65 - 154				
Naphthalene	19.9	µg/L	SW8260D	0.704	2.00	20.00	0	99.3	55 - 128				
o-Xylene	21.3	µg/L	SW8260D	0.153	2.00	20.00	0	106	70 - 142				
Styrene	21.0	µg/L	SW8260D	0.133	2.00	20.00	0	105	71 - 135				
Tetrachloroethene	21.9	µg/L	SW8260D	0.518	2.00	20.00	0	110	58 - 149				
Toluene	21.0	µg/L	SW8260D	0.285	2.00	20.00	0	105	69 - 129				
trans-1,2-Dichloroethene	21.2	µg/L	SW8260D	0.282	2.00	20.00	0	106	70 - 134				
trans-1,3-Dichloropropene	20.6	µg/L	SW8260D	0.772	2.00	20.00	0	103	63 - 132				
Trichloroethene	21.1	µg/L	SW8260D	0.180	2.00	20.00	0	106	72 - 136				
Trichlorofluoromethane	20.5	µg/L	SW8260D	0.375	2.00	20.00	0	102	59 - 152				
Vinyl chloride	21.4	µg/L	SW8260D	0.205	1.00	20.00	0	107	43 - 152				
Surr: 1,2-Dichloroethane-d4	49.0	µg/L	SW8260D			50.00		98.0	80 - 136				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260D			50.00		99.6	85 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260D			50.00		99.5	78 - 132				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 021121A Date Analyzed: 02/11/2021 640h													
Test Code: 8260D-W													
Surr: Toluene-d8	49.2	µg/L	SW8260D			50.00		98.5	81 - 123				
Lab Sample ID: LCS VOC-1 021121A Date Analyzed: 02/11/2021 648h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	19.5	µg/L	SW8260D	0.326	2.00	20.00	0	97.4	72 - 132				
1,1,2,2-Tetrachloroethane	18.0	µg/L	SW8260D	0.164	2.00	20.00	0	89.8	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	22.6	µg/L	SW8260D	2.00	2.00	20.00	0	113	54 - 174				
1,1,2-Trichloroethane	19.4	µg/L	SW8260D	0.143	2.00	20.00	0	96.9	88 - 126				
1,1-Dichloroethane	20.7	µg/L	SW8260D	1.43	2.00	20.00	0	104	78 - 142				
1,1-Dichloroethene	23.3	µg/L	SW8260D	0.844	2.00	20.00	0	116	37 - 144				
1,2,3-Trichlorobenzene	17.5	µg/L	SW8260D	1.28	2.00	20.00	0	87.7	60 - 136				
1,2,4-Trichlorobenzene	17.6	µg/L	SW8260D	1.53	2.00	20.00	0	88.1	45 - 138				
1,2-Dibromo-3-chloropropane	15.2	µg/L	SW8260D	0.295	5.00	20.00	0	76.1	71 - 129				
1,2-Dibromoethane	19.0	µg/L	SW8260D	0.248	2.00	20.00	0	95.2	77 - 124				
1,2-Dichlorobenzene	19.1	µg/L	SW8260D	0.155	2.00	20.00	0	95.5	70 - 130				
1,2-Dichloroethane	18.7	µg/L	SW8260D	0.144	2.00	20.00	0	93.6	76 - 132				
1,2-Dichloropropane	19.0	µg/L	SW8260D	0.282	2.00	20.00	0	94.8	81 - 135				
1,3-Dichlorobenzene	19.6	µg/L	SW8260D	0.191	2.00	20.00	0	98.2	71 - 139				
1,4-Dichlorobenzene	19.0	µg/L	SW8260D	0.229	2.00	20.00	0	94.8	67 - 138				
1,4-Dioxane	148	µg/L	SW8260D	21.5	50.0	200.0	0	74.0	42 - 171				
2-Butanone	21.7	µg/L	SW8260D	1.22	10.0	20.00	0	108	69 - 236				
2-Hexanone	14.0	µg/L	SW8260D	0.225	5.00	20.00	0	70.2	51 - 167				
4-Methyl-2-pentanone	15.3	µg/L	SW8260D	0.296	5.00	20.00	0	76.6	68 - 128				
Acetone	18.3	µg/L	SW8260D	2.76	10.0	20.00	0	91.6	36 - 198				
Benzene	20.3	µg/L	SW8260D	0.147	2.00	20.00	0	101	78 - 125				
Bromochloromethane	19.4	µg/L	SW8260D	0.712	2.00	20.00	0	97.0	80 - 130				
Bromodichloromethane	18.2	µg/L	SW8260D	0.138	2.00	20.00	0	90.8	85 - 123				
Bromoform	17.8	µg/L	SW8260D	0.151	2.00	20.00	0	89.0	65 - 122				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 021121A	Date Analyzed:	02/11/2021 648h											
Test Code: 8260D-W													
Bromomethane	17.4	µg/L	SW8260D	3.08	5.00	20.00	0	86.9	10 - 168				
Carbon disulfide	23.8	µg/L	SW8260D	0.823	2.00	20.00	0	119	34 - 178				
Carbon tetrachloride	19.3	µg/L	SW8260D	0.859	2.00	20.00	0	96.5	66 - 143				
Chlorobenzene	19.9	µg/L	SW8260D	0.154	2.00	20.00	0	99.6	74 - 126				
Chloroethane	22.2	µg/L	SW8260D	1.37	2.00	20.00	0	111	45 - 154				
Chloroform	18.7	µg/L	SW8260D	0.166	2.00	20.00	0	93.6	74 - 120				
Chloromethane	15.9	µg/L	SW8260D	0.802	3.00	20.00	0	79.6	30 - 149				
cis-1,2-Dichloroethene	20.8	µg/L	SW8260D	0.188	2.00	20.00	0	104	70 - 132				
cis-1,3-Dichloropropene	19.3	µg/L	SW8260D	0.859	2.00	20.00	0	96.5	84 - 123				
Cyclohexane	20.0	µg/L	SW8260D	0.234	2.00	20.00	0	100	43 - 181				
Dibromochloromethane	18.1	µg/L	SW8260D	0.132	2.00	20.00	0	90.7	75 - 123				
Dichlorodifluoromethane	17.8	µg/L	SW8260D	0.430	2.00	20.00	0	89.2	10 - 165				
Ethylbenzene	20.3	µg/L	SW8260D	0.164	2.00	20.00	0	101	67 - 130				
Isopropylbenzene	20.2	µg/L	SW8260D	0.282	2.00	20.00	0	101	68 - 147				
m,p-Xylene	43.0	µg/L	SW8260D	0.575	2.00	40.00	0	108	69 - 142				
Methyl Acetate	29.5	µg/L	SW8260D	1.27	5.00	20.00	0	148	87 - 300				
Methyl tert-butyl ether	20.5	µg/L	SW8260D	1.60	2.00	20.00	0	103	58 - 135				
Methylcyclohexane	19.2	µg/L	SW8260D	0.569	2.00	20.00	0	95.8	55 - 151				
Methylene chloride	20.7	µg/L	SW8260D	0.381	2.00	20.00	0	104	65 - 154				
Naphthalene	15.2	µg/L	SW8260D	0.704	2.00	20.00	0	75.8	55 - 128				
o-Xylene	20.2	µg/L	SW8260D	0.153	2.00	20.00	0	101	70 - 142				
Styrene	18.3	µg/L	SW8260D	0.133	2.00	20.00	0	91.7	71 - 135				
Tetrachloroethene	20.9	µg/L	SW8260D	0.518	2.00	20.00	0	105	58 - 149				
Toluene	20.8	µg/L	SW8260D	0.285	2.00	20.00	0	104	69 - 129				
trans-1,2-Dichloroethene	22.1	µg/L	SW8260D	0.282	2.00	20.00	0	110	70 - 134				
trans-1,3-Dichloropropene	18.5	µg/L	SW8260D	0.772	2.00	20.00	0	92.6	63 - 132				
Trichloroethene	20.1	µg/L	SW8260D	0.180	2.00	20.00	0	101	72 - 136				
Trichlorofluoromethane	20.1	µg/L	SW8260D	0.375	2.00	20.00	0	100	59 - 152				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102282
Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 021121A Date Analyzed: 02/11/2021 648h													
Test Code: 8260D-W													
Vinyl chloride	18.9	µg/L	SW8260D	0.205	1.00	20.00	0	94.6	43 - 152				
Surr: 1,2-Dichloroethane-d4	47.4	µg/L	SW8260D			50.00		94.9	80 - 136				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260D			50.00		99.5	85 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260D			50.00		100	78 - 132				
Surr: Toluene-d8	50.8	µg/L	SW8260D			50.00		102	81 - 123				
Lab Sample ID: LCS VOC-1 021121A Date Analyzed: 02/11/2021 648h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	19.5	µg/L	SW8260D	0.326	2.00	20.00	0	97.4	72 - 132				
1,1,2,2-Tetrachloroethane	18.0	µg/L	SW8260D	0.164	2.00	20.00	0	89.8	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	22.6	µg/L	SW8260D	2.00	2.00	20.00	0	113	54 - 174				
1,1,2-Trichloroethane	19.4	µg/L	SW8260D	0.143	2.00	20.00	0	96.9	88 - 126				
1,1-Dichloroethane	20.7	µg/L	SW8260D	1.43	2.00	20.00	0	104	78 - 142				
1,1-Dichloroethene	23.3	µg/L	SW8260D	0.844	2.00	20.00	0	116	37 - 144				
1,2,3-Trichlorobenzene	17.5	µg/L	SW8260D	1.28	2.00	20.00	0	87.7	60 - 136				
1,2,4-Trichlorobenzene	17.6	µg/L	SW8260D	1.53	2.00	20.00	0	88.1	45 - 138				
1,2-Dibromo-3-chloropropane	15.2	µg/L	SW8260D	0.295	5.00	20.00	0	76.1	71 - 129				
1,2-Dibromoethane	19.0	µg/L	SW8260D	0.248	2.00	20.00	0	95.2	77 - 124				
1,2-Dichlorobenzene	19.1	µg/L	SW8260D	0.155	2.00	20.00	0	95.5	70 - 130				
1,2-Dichloroethane	18.7	µg/L	SW8260D	0.144	2.00	20.00	0	93.6	76 - 132				
1,2-Dichloropropane	19.0	µg/L	SW8260D	0.282	2.00	20.00	0	94.8	81 - 135				
1,3-Dichlorobenzene	19.6	µg/L	SW8260D	0.191	2.00	20.00	0	98.2	71 - 139				
1,4-Dichlorobenzene	19.0	µg/L	SW8260D	0.229	2.00	20.00	0	94.8	67 - 138				
1,4-Dioxane	148	µg/L	SW8260D	21.5	50.0	200.0	0	74.0	42 - 171				
2-Butanone	21.7	µg/L	SW8260D	1.22	10.0	20.00	0	108	69 - 236				
2-Hexanone	14.0	µg/L	SW8260D	0.225	5.00	20.00	0	70.2	51 - 167				
4-Methyl-2-pentanone	15.3	µg/L	SW8260D	0.296	5.00	20.00	0	76.6	68 - 128				
Acetone	18.3	µg/L	SW8260D	2.76	10.0	20.00	0	91.6	36 - 198				



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Kyle F. Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 021121A	Date Analyzed:	02/11/2021 648h											
Test Code: 8260D-W													
Benzene	20.3	µg/L	SW8260D	0.147	2.00	20.00	0	101	78 - 125				
Bromochloromethane	19.4	µg/L	SW8260D	0.712	2.00	20.00	0	97.0	80 - 130				
Bromodichloromethane	18.2	µg/L	SW8260D	0.138	2.00	20.00	0	90.8	85 - 123				
Bromoform	17.8	µg/L	SW8260D	0.151	2.00	20.00	0	89.0	65 - 122				
Bromomethane	17.4	µg/L	SW8260D	3.08	5.00	20.00	0	86.9	10 - 168				
Carbon disulfide	23.8	µg/L	SW8260D	0.823	2.00	20.00	0	119	34 - 178				
Carbon tetrachloride	19.3	µg/L	SW8260D	0.859	2.00	20.00	0	96.5	66 - 143				
Chlorobenzene	19.9	µg/L	SW8260D	0.154	2.00	20.00	0	99.6	74 - 126				
Chloroethane	22.2	µg/L	SW8260D	1.37	2.00	20.00	0	111	45 - 154				
Chloroform	18.7	µg/L	SW8260D	0.166	2.00	20.00	0	93.6	74 - 120				
Chloromethane	15.9	µg/L	SW8260D	0.802	3.00	20.00	0	79.6	30 - 149				
cis-1,2-Dichloroethene	20.8	µg/L	SW8260D	0.188	2.00	20.00	0	104	70 - 132				
cis-1,3-Dichloropropene	19.3	µg/L	SW8260D	0.859	2.00	20.00	0	96.5	84 - 123				
Cyclohexane	20.0	µg/L	SW8260D	0.234	2.00	20.00	0	100	43 - 181				
Dibromochloromethane	18.1	µg/L	SW8260D	0.132	2.00	20.00	0	90.7	75 - 123				
Dichlorodifluoromethane	17.8	µg/L	SW8260D	0.430	2.00	20.00	0	89.2	10 - 165				
Ethylbenzene	20.3	µg/L	SW8260D	0.164	2.00	20.00	0	101	67 - 130				
Isopropylbenzene	20.2	µg/L	SW8260D	0.282	2.00	20.00	0	101	68 - 147				
m,p-Xylene	43.0	µg/L	SW8260D	0.575	2.00	40.00	0	108	69 - 142				
Methyl Acetate	29.5	µg/L	SW8260D	1.27	5.00	20.00	0	148	87 - 300				
Methyl tert-butyl ether	20.5	µg/L	SW8260D	1.60	2.00	20.00	0	103	58 - 135				
Methylcyclohexane	19.2	µg/L	SW8260D	0.569	2.00	20.00	0	95.8	55 - 151				
Methylene chloride	20.7	µg/L	SW8260D	0.381	2.00	20.00	0	104	65 - 154				
Naphthalene	15.2	µg/L	SW8260D	0.704	2.00	20.00	0	75.8	55 - 128				
o-Xylene	20.2	µg/L	SW8260D	0.153	2.00	20.00	0	101	70 - 142				
Styrene	18.3	µg/L	SW8260D	0.133	2.00	20.00	0	91.7	71 - 135				
Tetrachloroethene	20.9	µg/L	SW8260D	0.518	2.00	20.00	0	105	58 - 149				
Toluene	20.8	µg/L	SW8260D	0.285	2.00	20.00	0	104	69 - 129				



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Kyle F. Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 021121A	Date Analyzed:		02/11/2021 648h										
Test Code: 8260D-W													
trans-1,2-Dichloroethene	22.1	µg/L	SW8260D	0.282	2.00	20.00	0	110	70 - 134				
trans-1,3-Dichloropropene	18.5	µg/L	SW8260D	0.772	2.00	20.00	0	92.6	63 - 132				
Trichloroethene	20.1	µg/L	SW8260D	0.180	2.00	20.00	0	101	72 - 136				
Trichlorofluoromethane	20.1	µg/L	SW8260D	0.375	2.00	20.00	0	100	59 - 152				
Vinyl chloride	18.9	µg/L	SW8260D	0.205	1.00	20.00	0	94.6	43 - 152				
Surr: 1,2-Dichloroethane-d4	47.4	µg/L	SW8260D			50.00		94.9	80 - 136				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260D			50.00		99.5	85 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260D			50.00		100	78 - 132				
Surr: Toluene-d8	50.8	µg/L	SW8260D			50.00		102	81 - 123				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 021121A	Date Analyzed:	02/11/2021 659h											
Test Code: 8260D-W													
1,1,1-Trichloroethane	< 2.00	µg/L	SW8260D	0.326	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/L	SW8260D	0.164	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/L	SW8260D	2.00	2.00								
1,1,2-Trichloroethane	< 2.00	µg/L	SW8260D	0.143	2.00								
1,1-Dichloroethane	< 2.00	µg/L	SW8260D	1.43	2.00								
1,1-Dichloroethene	< 2.00	µg/L	SW8260D	0.844	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.28	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.53	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/L	SW8260D	0.295	5.00								
1,2-Dibromoethane	< 2.00	µg/L	SW8260D	0.248	2.00								
1,2-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.155	2.00								
1,2-Dichloroethane	< 2.00	µg/L	SW8260D	0.144	2.00								
1,2-Dichloropropane	< 2.00	µg/L	SW8260D	0.282	2.00								
1,3-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.191	2.00								
1,4-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.229	2.00								
1,4-Dioxane	< 50.0	µg/L	SW8260D	21.5	50.0								
2-Butanone	< 10.0	µg/L	SW8260D	1.22	10.0								
2-Hexanone	< 5.00	µg/L	SW8260D	0.225	5.00								
4-Methyl-2-pentanone	< 5.00	µg/L	SW8260D	0.296	5.00								
Acetone	< 10.0	µg/L	SW8260D	2.76	10.0								
Benzene	< 2.00	µg/L	SW8260D	0.147	2.00								
Bromochloromethane	< 2.00	µg/L	SW8260D	0.712	2.00								
Bromodichloromethane	< 2.00	µg/L	SW8260D	0.138	2.00								
Bromoform	< 2.00	µg/L	SW8260D	0.151	2.00								
Bromomethane	< 5.00	µg/L	SW8260D	3.08	5.00								
Carbon disulfide	< 2.00	µg/L	SW8260D	0.823	2.00								
Carbon tetrachloride	< 2.00	µg/L	SW8260D	0.859	2.00								
Chlorobenzene	< 2.00	µg/L	SW8260D	0.154	2.00								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 021121A	Date Analyzed:	02/11/2021 659h											
Test Code: 8260D-W													
Chloroethane	< 2.00	µg/L	SW8260D	1.37	2.00								
Chloroform	< 2.00	µg/L	SW8260D	0.166	2.00								
Chloromethane	< 3.00	µg/L	SW8260D	0.802	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.188	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.859	2.00								
Cyclohexane	< 2.00	µg/L	SW8260D	0.234	2.00								
Dibromochloromethane	< 2.00	µg/L	SW8260D	0.132	2.00								
Dichlorodifluoromethane	< 2.00	µg/L	SW8260D	0.430	2.00								
Ethylbenzene	< 2.00	µg/L	SW8260D	0.164	2.00								
Isopropylbenzene	< 2.00	µg/L	SW8260D	0.282	2.00								
m,p-Xylene	< 2.00	µg/L	SW8260D	0.575	2.00								
Methyl Acetate	< 5.00	µg/L	SW8260D	1.27	5.00								
Methyl tert-butyl ether	< 2.00	µg/L	SW8260D	1.60	2.00								
Methylcyclohexane	< 2.00	µg/L	SW8260D	0.569	2.00								
Methylene chloride	< 2.00	µg/L	SW8260D	0.381	2.00								
Naphthalene	< 2.00	µg/L	SW8260D	0.704	2.00								
o-Xylene	< 2.00	µg/L	SW8260D	0.153	2.00								
Styrene	< 2.00	µg/L	SW8260D	0.133	2.00								
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.518	2.00								
Toluene	< 2.00	µg/L	SW8260D	0.285	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.282	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.772	2.00								
Trichloroethene	< 2.00	µg/L	SW8260D	0.180	2.00								
Trichlorofluoromethane	< 2.00	µg/L	SW8260D	0.375	2.00								
Vinyl chloride	< 1.00	µg/L	SW8260D	0.205	1.00								
Surr: 1,2-Dichloroethane-d4	49.9	µg/L	SW8260D			50.00		99.9	80 - 136				
Surr: 4-Bromofluorobenzene	50.9	µg/L	SW8260D			50.00		102	85 - 121				
Surr: Dibromofluoromethane	49.7	µg/L	SW8260D			50.00		99.4	78 - 121				



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 021121A	Date Analyzed:	02/11/2021 659h											
Test Code:	8260D-W												
Surr: Toluene-d8	50.6	µg/L	SW8260D			50.00		101	81 - 123				
Lab Sample ID: MB VOC-1 021121A	Date Analyzed:	02/11/2021 707h											
Test Code:	8260D-W												
1,1,1-Trichloroethane	< 2.00	µg/L	SW8260D	0.326	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/L	SW8260D	0.164	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/L	SW8260D	2.00	2.00								
1,1,2-Trichloroethane	< 2.00	µg/L	SW8260D	0.143	2.00								
1,1-Dichloroethane	< 2.00	µg/L	SW8260D	1.43	2.00								
1,1-Dichloroethene	< 2.00	µg/L	SW8260D	0.844	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.28	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.53	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/L	SW8260D	0.295	5.00								
1,2-Dibromoethane	< 2.00	µg/L	SW8260D	0.248	2.00								
1,2-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.155	2.00								
1,2-Dichloroethane	< 2.00	µg/L	SW8260D	0.144	2.00								
1,2-Dichloropropane	< 2.00	µg/L	SW8260D	0.282	2.00								
1,3-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.191	2.00								
1,4-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.229	2.00								
1,4-Dioxane	< 50.0	µg/L	SW8260D	21.5	50.0								
2-Butanone	< 10.0	µg/L	SW8260D	1.22	10.0								
2-Hexanone	< 5.00	µg/L	SW8260D	0.225	5.00								
4-Methyl-2-pentanone	< 5.00	µg/L	SW8260D	0.296	5.00								
Acetone	< 10.0	µg/L	SW8260D	2.76	10.0								
Benzene	< 2.00	µg/L	SW8260D	0.147	2.00								
Bromochloromethane	< 2.00	µg/L	SW8260D	0.712	2.00								
Bromodichloromethane	< 2.00	µg/L	SW8260D	0.138	2.00								
Bromoform	< 2.00	µg/L	SW8260D	0.151	2.00								



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 021121A	Date Analyzed:	02/11/2021 707h											
Test Code: 8260D-W													
Bromomethane	< 5.00	µg/L	SW8260D	3.08	5.00								
Carbon disulfide	< 2.00	µg/L	SW8260D	0.823	2.00								
Carbon tetrachloride	< 2.00	µg/L	SW8260D	0.859	2.00								
Chlorobenzene	< 2.00	µg/L	SW8260D	0.154	2.00								
Chloroethane	< 2.00	µg/L	SW8260D	1.37	2.00								
Chloroform	< 2.00	µg/L	SW8260D	0.166	2.00								
Chloromethane	< 3.00	µg/L	SW8260D	0.802	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.188	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.859	2.00								
Cyclohexane	< 2.00	µg/L	SW8260D	0.234	2.00								
Dibromochloromethane	< 2.00	µg/L	SW8260D	0.132	2.00								
Dichlorodifluoromethane	< 2.00	µg/L	SW8260D	0.430	2.00								
Ethylbenzene	< 2.00	µg/L	SW8260D	0.164	2.00								
Isopropylbenzene	< 2.00	µg/L	SW8260D	0.282	2.00								
m,p-Xylene	< 2.00	µg/L	SW8260D	0.575	2.00								
Methyl Acetate	< 5.00	µg/L	SW8260D	1.27	5.00								
Methyl tert-butyl ether	< 2.00	µg/L	SW8260D	1.60	2.00								
Methylcyclohexane	< 2.00	µg/L	SW8260D	0.569	2.00								
Methylene chloride	< 2.00	µg/L	SW8260D	0.381	2.00								
Naphthalene	< 2.00	µg/L	SW8260D	0.704	2.00								
o-Xylene	< 2.00	µg/L	SW8260D	0.153	2.00								
Styrene	< 2.00	µg/L	SW8260D	0.133	2.00								
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.518	2.00								
Toluene	< 2.00	µg/L	SW8260D	0.285	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.282	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.772	2.00								
Trichloroethene	< 2.00	µg/L	SW8260D	0.180	2.00								
Trichlorofluoromethane	< 2.00	µg/L	SW8260D	0.375	2.00								



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Jose Rocha
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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 021121A													
Date Analyzed: 02/11/2021 707h													
Test Code: 8260D-W													
Vinyl chloride	< 1.00	µg/L	SW8260D	0.205	1.00								
Surr: 1,2-Dichloroethane-d4	48.8	µg/L	SW8260D			50.00		97.7	80 - 136				
Surr: 4-Bromofluorobenzene	50.4	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	50.7	µg/L	SW8260D			50.00		101	78 - 121				
Surr: Toluene-d8	51.4	µg/L	SW8260D			50.00		103	81 - 123				
Lab Sample ID: MB VOC-1 021121A													
Date Analyzed: 02/11/2021 707h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	< 2.00	µg/L	SW8260D	0.326	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/L	SW8260D	0.164	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/L	SW8260D	2.00	2.00								
1,1,2-Trichloroethane	< 2.00	µg/L	SW8260D	0.143	2.00								
1,1-Dichloroethane	< 2.00	µg/L	SW8260D	1.43	2.00								
1,1-Dichloroethene	< 2.00	µg/L	SW8260D	0.844	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.28	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.53	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/L	SW8260D	0.295	5.00								
1,2-Dibromoethane	< 2.00	µg/L	SW8260D	0.248	2.00								
1,2-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.155	2.00								
1,2-Dichloroethane	< 2.00	µg/L	SW8260D	0.144	2.00								
1,2-Dichloropropane	< 2.00	µg/L	SW8260D	0.282	2.00								
1,3-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.191	2.00								
1,4-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.229	2.00								
1,4-Dioxane	< 50.0	µg/L	SW8260D	21.5	50.0								
2-Butanone	< 10.0	µg/L	SW8260D	1.22	10.0								
2-Hexanone	< 5.00	µg/L	SW8260D	0.225	5.00								
4-Methyl-2-pentanone	< 5.00	µg/L	SW8260D	0.296	5.00								
Acetone	< 10.0	µg/L	SW8260D	2.76	10.0								



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 021121A	Date Analyzed:	02/11/2021 707h											
Test Code: 8260D-W													
Benzene	< 2.00	µg/L	SW8260D	0.147	2.00								
Bromochloromethane	< 2.00	µg/L	SW8260D	0.712	2.00								
Bromodichloromethane	< 2.00	µg/L	SW8260D	0.138	2.00								
Bromoform	< 2.00	µg/L	SW8260D	0.151	2.00								
Bromomethane	< 5.00	µg/L	SW8260D	3.08	5.00								
Carbon disulfide	< 2.00	µg/L	SW8260D	0.823	2.00								
Carbon tetrachloride	< 2.00	µg/L	SW8260D	0.859	2.00								
Chlorobenzene	< 2.00	µg/L	SW8260D	0.154	2.00								
Chloroethane	< 2.00	µg/L	SW8260D	1.37	2.00								
Chloroform	< 2.00	µg/L	SW8260D	0.166	2.00								
Chloromethane	< 3.00	µg/L	SW8260D	0.802	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.188	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.859	2.00								
Cyclohexane	< 2.00	µg/L	SW8260D	0.234	2.00								
Dibromochloromethane	< 2.00	µg/L	SW8260D	0.132	2.00								
Dichlorodifluoromethane	< 2.00	µg/L	SW8260D	0.430	2.00								
Ethylbenzene	< 2.00	µg/L	SW8260D	0.164	2.00								
Isopropylbenzene	< 2.00	µg/L	SW8260D	0.282	2.00								
m,p-Xylene	< 2.00	µg/L	SW8260D	0.575	2.00								
Methyl Acetate	< 5.00	µg/L	SW8260D	1.27	5.00								
Methyl tert-butyl ether	< 2.00	µg/L	SW8260D	1.60	2.00								
Methylcyclohexane	< 2.00	µg/L	SW8260D	0.569	2.00								
Methylene chloride	< 2.00	µg/L	SW8260D	0.381	2.00								
Naphthalene	< 2.00	µg/L	SW8260D	0.704	2.00								
o-Xylene	< 2.00	µg/L	SW8260D	0.153	2.00								
Styrene	< 2.00	µg/L	SW8260D	0.133	2.00								
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.518	2.00								
Toluene	< 2.00	µg/L	SW8260D	0.285	2.00								



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 021121A	Date Analyzed:	02/11/2021 707h											
Test Code: 8260D-W													
trans-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.282	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.772	2.00								
Trichloroethene	< 2.00	µg/L	SW8260D	0.180	2.00								
Trichlorofluoromethane	< 2.00	µg/L	SW8260D	0.375	2.00								
Vinyl chloride	< 1.00	µg/L	SW8260D	0.205	1.00								
Surr: 1,2-Dichloroethane-d4	48.8	µg/L	SW8260D			50.00		97.7	80 - 136				
Surr: 4-Bromofluorobenzene	50.4	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	50.7	µg/L	SW8260D			50.00		101	78 - 121				
Surr: Toluene-d8	51.4	µg/L	SW8260D			50.00		103	81 - 123				



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102282-001AMS	Date Analyzed:	02/11/2021 900h											
Test Code: 8260D-W													
1,1,1-Trichloroethane	21.2	µg/L	SW8260D	0.326	2.00	20.00	0	106	72 - 132				
1,1,2,2-Tetrachloroethane	19.7	µg/L	SW8260D	0.164	2.00	20.00	0	98.4	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	23.0	µg/L	SW8260D	2.00	2.00	20.00	0	115	54 - 174				
1,1,2-Trichloroethane	19.9	µg/L	SW8260D	0.143	2.00	20.00	0	99.7	88 - 126				
1,1-Dichloroethane	22.2	µg/L	SW8260D	1.43	2.00	20.00	0	111	78 - 142				
1,1-Dichloroethene	22.1	µg/L	SW8260D	0.844	2.00	20.00	0	110	37 - 144				
1,2,3-Trichlorobenzene	20.4	µg/L	SW8260D	1.28	2.00	20.00	0	102	60 - 136				
1,2,4-Trichlorobenzene	20.4	µg/L	SW8260D	1.53	2.00	20.00	0	102	45 - 138				
1,2-Dibromo-3-chloropropane	18.7	µg/L	SW8260D	0.295	5.00	20.00	0	93.4	71 - 129				
1,2-Dibromoethane	19.6	µg/L	SW8260D	0.248	2.00	20.00	0	98.1	77 - 124				
1,2-Dichlorobenzene	20.6	µg/L	SW8260D	0.155	2.00	20.00	0	103	70 - 130				
1,2-Dichloroethane	20.0	µg/L	SW8260D	0.144	2.00	20.00	0	99.9	76 - 132				
1,2-Dichloropropane	20.8	µg/L	SW8260D	0.282	2.00	20.00	0	104	81 - 135				
1,3-Dichlorobenzene	20.8	µg/L	SW8260D	0.191	2.00	20.00	0	104	71 - 139				
1,4-Dichlorobenzene	20.3	µg/L	SW8260D	0.229	2.00	20.00	0	101	67 - 138				
1,4-Dioxane	188	µg/L	SW8260D	21.5	50.0	200.0	0	93.9	42 - 171				
2-Butanone	19.4	µg/L	SW8260D	1.22	10.0	20.00	0	96.9	69 - 236				
2-Hexanone	18.3	µg/L	SW8260D	0.225	5.00	20.00	0	91.6	51 - 167				
4-Methyl-2-pentanone	18.3	µg/L	SW8260D	0.296	5.00	20.00	0	91.5	68 - 128				
Acetone	18.3	µg/L	SW8260D	2.76	10.0	20.00	0	91.6	36 - 198				
Benzene	21.3	µg/L	SW8260D	0.147	2.00	20.00	0	106	78 - 125				
Bromochloromethane	19.8	µg/L	SW8260D	0.712	2.00	20.00	0	98.9	80 - 130				
Bromodichloromethane	19.4	µg/L	SW8260D	0.138	2.00	20.00	0	97.0	85 - 123				
Bromoform	18.2	µg/L	SW8260D	0.151	2.00	20.00	0	91.1	65 - 122				
Bromomethane	13.8	µg/L	SW8260D	3.08	5.00	20.00	0	69.0	10 - 168				
Carbon disulfide	21.2	µg/L	SW8260D	0.823	2.00	20.00	0	106	34 - 178				
Carbon tetrachloride	20.9	µg/L	SW8260D	0.859	2.00	20.00	0	105	66 - 143				
Chlorobenzene	20.4	µg/L	SW8260D	0.154	2.00	20.00	0	102	74 - 126				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102282-001AMS	Date Analyzed:	02/11/2021 900h											
Test Code: 8260D-W													
Chloroethane	25.2	µg/L	SW8260D	1.37	2.00	20.00	0	126	45 - 154				
Chloroform	21.0	µg/L	SW8260D	0.166	2.00	20.00	0	105	74 - 120				
Chloromethane	19.6	µg/L	SW8260D	0.802	3.00	20.00	0	97.9	30 - 149				
cis-1,2-Dichloroethene	20.9	µg/L	SW8260D	0.188	2.00	20.00	0	104	70 - 132				
cis-1,3-Dichloropropene	20.0	µg/L	SW8260D	0.859	2.00	20.00	0	100	84 - 123				
Cyclohexane	19.9	µg/L	SW8260D	0.234	2.00	20.00	0	99.3	43 - 181				
Dibromochloromethane	19.0	µg/L	SW8260D	0.132	2.00	20.00	0	94.8	75 - 123				
Dichlorodifluoromethane	21.4	µg/L	SW8260D	0.430	2.00	20.00	0	107	10 - 165				
Ethylbenzene	20.9	µg/L	SW8260D	0.164	2.00	20.00	0	105	67 - 130				
Isopropylbenzene	21.5	µg/L	SW8260D	0.282	2.00	20.00	0	108	68 - 147				
m,p-Xylene	42.8	µg/L	SW8260D	0.575	2.00	40.00	0	107	69 - 142				
Methyl Acetate	31.0	µg/L	SW8260D	1.27	5.00	20.00	0	155	87 - 300				
Methyl tert-butyl ether	19.5	µg/L	SW8260D	1.60	2.00	20.00	0	97.3	58 - 135				
Methylcyclohexane	20.4	µg/L	SW8260D	0.569	2.00	20.00	0	102	55 - 151				
Methylene chloride	20.1	µg/L	SW8260D	0.381	2.00	20.00	0	100	65 - 154				
Naphthalene	19.3	µg/L	SW8260D	0.704	2.00	20.00	0	96.5	55 - 128				
o-Xylene	20.9	µg/L	SW8260D	0.153	2.00	20.00	0	105	70 - 142				
Styrene	20.4	µg/L	SW8260D	0.133	2.00	20.00	0	102	71 - 135				
Tetrachloroethene	29.8	µg/L	SW8260D	0.518	2.00	20.00	7.29	113	58 - 149				
Toluene	20.9	µg/L	SW8260D	0.285	2.00	20.00	0	104	69 - 129				
trans-1,2-Dichloroethene	21.1	µg/L	SW8260D	0.282	2.00	20.00	0	106	70 - 134				
trans-1,3-Dichloropropene	20.0	µg/L	SW8260D	0.772	2.00	20.00	0	99.8	63 - 132				
Trichloroethene	21.2	µg/L	SW8260D	0.180	2.00	20.00	0	106	72 - 136				
Trichlorofluoromethane	23.1	µg/L	SW8260D	0.375	2.00	20.00	0	116	59 - 152				
Vinyl chloride	24.2	µg/L	SW8260D	0.205	1.00	20.00	0	121	43 - 152				
Surr: 1,2-Dichloroethane-d4	49.2	µg/L	SW8260D			50.00		98.3	80 - 136				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260D			50.00		98.3	85 - 121				
Surr: Dibromofluoromethane	49.9	µg/L	SW8260D			50.00		99.7	78 - 132				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102282-001AMS		Date Analyzed: 02/11/2021 900h											
Test Code: 8260D-W													
Surr: Toluene-d8	48.8	µg/L	SW8260D			50.00		97.6	81 - 123				
Lab Sample ID: 2102291-004AMS		Date Analyzed: 02/11/2021 1209h											
Test Code: 8260D-W													
1,1,1-Trichloroethane	10,500	µg/L	SW8260D	163	1,000	10,000	0	105	72 - 132				
1,1,2,2-Tetrachloroethane	9,620	µg/L	SW8260D	82.0	1,000	10,000	0	96.2	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	11,900	µg/L	SW8260D	1,000	1,000	10,000	0	119	54 - 174				
1,1,2-Trichloroethane	10,200	µg/L	SW8260D	71.5	1,000	10,000	0	102	88 - 126				
1,1-Dichloroethane	11,200	µg/L	SW8260D	715	1,000	10,000	0	112	78 - 142				
1,1-Dichloroethene	12,300	µg/L	SW8260D	422	1,000	10,000	0	123	37 - 144				
1,2,3-Trichlorobenzene	9,420	µg/L	SW8260D	640	1,000	10,000	0	94.2	60 - 136				
1,2,4-Trichlorobenzene	9,490	µg/L	SW8260D	765	1,000	10,000	0	94.9	45 - 138				
1,2-Dibromo-3-chloropropane	8,240	µg/L	SW8260D	148	2,500	10,000	0	82.4	71 - 129				
1,2-Dibromoethane	10,100	µg/L	SW8260D	124	1,000	10,000	0	101	77 - 124				
1,2-Dichlorobenzene	10,000	µg/L	SW8260D	77.5	1,000	10,000	0	100	70 - 130				
1,2-Dichloroethane	10,000	µg/L	SW8260D	72.0	1,000	10,000	0	100	76 - 132				
1,2-Dichloropropane	10,100	µg/L	SW8260D	141	1,000	10,000	0	101	81 - 135				
1,3-Dichlorobenzene	10,400	µg/L	SW8260D	95.5	1,000	10,000	0	104	71 - 139				
1,4-Dichlorobenzene	10,200	µg/L	SW8260D	114	1,000	10,000	0	102	67 - 138				
1,4-Dioxane	74,400	µg/L	SW8260D	10,800	25,000	100,000	0	74.4	42 - 171				
2-Butanone	11,700	µg/L	SW8260D	610	5,000	10,000	0	117	69 - 236				
2-Hexanone	7,260	µg/L	SW8260D	112	2,500	10,000	0	72.6	51 - 167				
4-Methyl-2-pentanone	8,020	µg/L	SW8260D	148	2,500	10,000	0	80.2	68 - 128				
Acetone	12,900	µg/L	SW8260D	1,380	5,000	10,000	0	129	36 - 198				
Benzene	20,300	µg/L	SW8260D	73.5	1,000	10,000	8950	114	78 - 125				
Bromochloromethane	10,400	µg/L	SW8260D	356	1,000	10,000	0	104	80 - 130				
Bromodichloromethane	9,690	µg/L	SW8260D	69.0	1,000	10,000	0	96.9	85 - 123				
Bromoform	9,150	µg/L	SW8260D	75.5	1,000	10,000	0	91.5	65 - 122				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102291-004AMS	Date Analyzed:		02/11/2021 1209h										
Test Code: 8260D-W													
Bromomethane	8,300	µg/L	SW8260D	1,540	2,500	10,000	0	83.0	10 - 168				
Carbon disulfide	12,400	µg/L	SW8260D	412	1,000	10,000	0	124	34 - 178				
Carbon tetrachloride	10,600	µg/L	SW8260D	430	1,000	10,000	0	106	66 - 143				
Chlorobenzene	10,600	µg/L	SW8260D	77.0	1,000	10,000	0	106	74 - 126				
Chloroethane	11,300	µg/L	SW8260D	685	1,000	10,000	0	113	45 - 154				
Chloroform	10,200	µg/L	SW8260D	83.0	1,000	10,000	0	102	74 - 120				
Chloromethane	7,940	µg/L	SW8260D	401	1,500	10,000	0	79.4	30 - 149				
cis-1,2-Dichloroethene	10,700	µg/L	SW8260D	94.0	1,000	10,000	0	107	70 - 132				
cis-1,3-Dichloropropene	10,300	µg/L	SW8260D	430	1,000	10,000	0	103	84 - 123				
Cyclohexane	9,850	µg/L	SW8260D	117	1,000	10,000	0	98.5	43 - 181				
Dibromochloromethane	9,700	µg/L	SW8260D	66.0	1,000	10,000	0	97.0	75 - 123				
Dichlorodifluoromethane	8,410	µg/L	SW8260D	215	1,000	10,000	0	84.1	10 - 165				
Ethylbenzene	11,100	µg/L	SW8260D	82.0	1,000	10,000	0	111	67 - 130				
Isopropylbenzene	10,700	µg/L	SW8260D	141	1,000	10,000	0	107	68 - 147				
m,p-Xylene	26,300	µg/L	SW8260D	288	1,000	20,000	3000	116	69 - 142				
Methyl Acetate	16,000	µg/L	SW8260D	635	2,500	10,000	0	160	87 - 300				
Methyl tert-butyl ether	10,500	µg/L	SW8260D	800	1,000	10,000	0	105	58 - 135				
Methylcyclohexane	10,200	µg/L	SW8260D	284	1,000	10,000	0	102	55 - 151				
Methylene chloride	11,100	µg/L	SW8260D	190	1,000	10,000	0	111	65 - 154				
Naphthalene	8,020	µg/L	SW8260D	352	1,000	10,000	0	80.2	55 - 128				
o-Xylene	11,300	µg/L	SW8260D	76.5	1,000	10,000	775	105	70 - 142				
Styrene	9,620	µg/L	SW8260D	66.5	1,000	10,000	0	96.2	71 - 135				
Tetrachloroethene	11,400	µg/L	SW8260D	259	1,000	10,000	0	114	58 - 149				
Toluene	22,700	µg/L	SW8260D	142	1,000	10,000	12500	102	69 - 129				
trans-1,2-Dichloroethene	11,600	µg/L	SW8260D	141	1,000	10,000	0	116	70 - 134				
trans-1,3-Dichloropropene	9,860	µg/L	SW8260D	386	1,000	10,000	0	98.6	63 - 132				
Trichloroethene	10,800	µg/L	SW8260D	90.0	1,000	10,000	0	108	72 - 136				
Trichlorofluoromethane	10,600	µg/L	SW8260D	188	1,000	10,000	0	106	59 - 152				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102291-004AMS		Date Analyzed: 02/11/2021 1209h											
Test Code: 8260D-W													
Vinyl chloride	9,510	µg/L	SW8260D	102	500	10,000	0	95.1	43 - 152				
Surr: 1,2-Dichloroethane-d4	24,900	µg/L	SW8260D			25,000		99.6	80 - 136				
Surr: 4-Bromofluorobenzene	24,900	µg/L	SW8260D			25,000		99.8	85 - 121				
Surr: Dibromofluoromethane	26,000	µg/L	SW8260D			25,000		104	78 - 132				
Surr: Toluene-d8	25,800	µg/L	SW8260D			25,000		103	81 - 123				



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QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102282-001AMSD	Date Analyzed:	02/11/2021 919h											
Test Code: 8260D-W													
1,1,1-Trichloroethane	21.6	µg/L	SW8260D	0.326	2.00	20.00	0	108	72 - 132	21.2	1.83	35	
1,1,2,2-Tetrachloroethane	20.1	µg/L	SW8260D	0.164	2.00	20.00	0	100	68 - 140	19.7	2.01	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	23.4	µg/L	SW8260D	2.00	2.00	20.00	0	117	54 - 174	23	2.03	35	
1,1,2-Trichloroethane	20.3	µg/L	SW8260D	0.143	2.00	20.00	0	101	88 - 126	19.9	1.64	35	
1,1-Dichloroethane	22.1	µg/L	SW8260D	1.43	2.00	20.00	0	111	78 - 142	22.2	0.226	35	
1,1-Dichloroethene	22.7	µg/L	SW8260D	0.844	2.00	20.00	0	114	37 - 144	22.1	2.81	35	
1,2,3-Trichlorobenzene	19.9	µg/L	SW8260D	1.28	2.00	20.00	0	99.4	60 - 136	20.4	2.34	35	
1,2,4-Trichlorobenzene	20.1	µg/L	SW8260D	1.53	2.00	20.00	0	100	45 - 138	20.5	1.83	35	
1,2-Dibromo-3-chloropropane	18.3	µg/L	SW8260D	0.295	5.00	20.00	0	91.6	71 - 129	18.7	1.95	35	
1,2-Dibromoethane	19.9	µg/L	SW8260D	0.248	2.00	20.00	0	99.7	77 - 124	19.6	1.62	35	
1,2-Dichlorobenzene	20.9	µg/L	SW8260D	0.155	2.00	20.00	0	104	70 - 130	20.6	1.35	35	
1,2-Dichloroethane	20.1	µg/L	SW8260D	0.144	2.00	20.00	0	101	76 - 132	20	0.599	35	
1,2-Dichloropropane	21.3	µg/L	SW8260D	0.282	2.00	20.00	0	106	81 - 135	20.8	2.52	35	
1,3-Dichlorobenzene	20.9	µg/L	SW8260D	0.191	2.00	20.00	0	105	71 - 139	20.8	0.527	35	
1,4-Dichlorobenzene	20.7	µg/L	SW8260D	0.229	2.00	20.00	0	104	67 - 138	20.3	2.19	35	
1,4-Dioxane	165	µg/L	SW8260D	21.5	50.0	200.0	0	82.3	42 - 171	188	13.1	35	
2-Butanone	20.0	µg/L	SW8260D	1.22	10.0	20.00	0	99.8	69 - 236	19.4	2.95	35	
2-Hexanone	18.7	µg/L	SW8260D	0.225	5.00	20.00	0	93.4	51 - 167	18.3	1.95	35	
4-Methyl-2-pentanone	18.3	µg/L	SW8260D	0.296	5.00	20.00	0	91.4	68 - 128	18.3	0.0547	35	
Acetone	18.3	µg/L	SW8260D	2.76	10.0	20.00	0	91.4	36 - 198	18.3	0.219	35	
Benzene	21.8	µg/L	SW8260D	0.147	2.00	20.00	0	109	78 - 125	21.3	2.60	35	
Bromochloromethane	20.3	µg/L	SW8260D	0.712	2.00	20.00	0	101	80 - 130	19.8	2.40	35	
Bromodichloromethane	20.1	µg/L	SW8260D	0.138	2.00	20.00	0	100	85 - 123	19.4	3.40	35	
Bromoform	18.6	µg/L	SW8260D	0.151	2.00	20.00	0	92.8	65 - 122	18.2	1.85	35	
Bromomethane	11.4	µg/L	SW8260D	3.08	5.00	20.00	0	57.2	10 - 168	13.8	18.8	35	
Carbon disulfide	21.6	µg/L	SW8260D	0.823	2.00	20.00	0	108	34 - 178	21.2	1.87	35	
Carbon tetrachloride	21.5	µg/L	SW8260D	0.859	2.00	20.00	0	108	66 - 143	20.9	2.78	35	
Chlorobenzene	21.0	µg/L	SW8260D	0.154	2.00	20.00	0	105	74 - 126	20.4	2.95	35	



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Kyle F. Gross
Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Applied Geotechnical

Contact: Joe DeGooyer

Lab Set ID: 2102282

Dept: MSVOA

Project: Forseys Cleaners Wells 11-15 / 1210086

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102282-001AMSD	Date Analyzed:	02/11/2021 919h											
Test Code: 8260D-W													
Chloroethane	22.8	µg/L	SW8260D	1.37	2.00	20.00	0	114	45 - 154	25.2	9.67	35	
Chloroform	21.5	µg/L	SW8260D	0.166	2.00	20.00	0	108	74 - 120	21	2.30	35	
Chloromethane	18.1	µg/L	SW8260D	0.802	3.00	20.00	0	90.4	30 - 149	19.6	7.91	35	
cis-1,2-Dichloroethene	21.5	µg/L	SW8260D	0.188	2.00	20.00	0	107	70 - 132	20.9	2.69	35	
cis-1,3-Dichloropropene	20.6	µg/L	SW8260D	0.859	2.00	20.00	0	103	84 - 123	20.1	2.46	35	
Cyclohexane	20.3	µg/L	SW8260D	0.234	2.00	20.00	0	102	43 - 181	19.9	2.39	35	
Dibromochloromethane	19.3	µg/L	SW8260D	0.132	2.00	20.00	0	96.3	75 - 123	19	1.57	35	
Dichlorodifluoromethane	19.0	µg/L	SW8260D	0.430	2.00	20.00	0	95.1	10 - 165	21.4	11.8	35	
Ethylbenzene	21.5	µg/L	SW8260D	0.164	2.00	20.00	0	108	67 - 130	20.9	2.73	35	
Isopropylbenzene	22.0	µg/L	SW8260D	0.282	2.00	20.00	0	110	68 - 147	21.5	2.07	35	
m,p-Xylene	43.6	µg/L	SW8260D	0.575	2.00	40.00	0	109	69 - 142	42.8	1.94	35	
Methyl Acetate	28.7	µg/L	SW8260D	1.27	5.00	20.00	0	144	87 - 300	31	7.67	35	
Methyl tert-butyl ether	19.8	µg/L	SW8260D	1.60	2.00	20.00	0	99.1	58 - 135	19.5	1.83	35	
Methylcyclohexane	21.2	µg/L	SW8260D	0.569	2.00	20.00	0	106	55 - 151	20.4	4.03	35	
Methylene chloride	20.6	µg/L	SW8260D	0.381	2.00	20.00	0	103	65 - 154	20.1	2.41	35	
Naphthalene	18.6	µg/L	SW8260D	0.704	2.00	20.00	0	93.1	55 - 128	19.3	3.59	35	
o-Xylene	21.4	µg/L	SW8260D	0.153	2.00	20.00	0	107	70 - 142	20.9	2.03	35	
Styrene	20.7	µg/L	SW8260D	0.133	2.00	20.00	0	104	71 - 135	20.4	1.51	35	
Tetrachloroethene	29.6	µg/L	SW8260D	0.518	2.00	20.00	7.29	112	58 - 149	29.8	0.673	35	
Toluene	21.3	µg/L	SW8260D	0.285	2.00	20.00	0	107	69 - 129	20.9	2.09	35	
trans-1,2-Dichloroethene	21.8	µg/L	SW8260D	0.282	2.00	20.00	0	109	70 - 134	21.1	3.13	35	
trans-1,3-Dichloropropene	20.6	µg/L	SW8260D	0.772	2.00	20.00	0	103	63 - 132	20	3.25	35	
Trichloroethene	21.6	µg/L	SW8260D	0.180	2.00	20.00	0	108	72 - 136	21.3	1.86	35	
Trichlorofluoromethane	20.0	µg/L	SW8260D	0.375	2.00	20.00	0	100	59 - 152	23.1	14.2	35	
Vinyl chloride	21.4	µg/L	SW8260D	0.205	1.00	20.00	0	107	43 - 152	24.2	12.0	35	
Surr: 1,2-Dichloroethane-d4	49.5	µg/L	SW8260D			50.00		99.0	80 - 136				
Surr: 4-Bromofluorobenzene	50.2	µg/L	SW8260D			50.00		100	85 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260D			50.00		100	78 - 132				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2102282
Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102282-001AMSD		Date Analyzed:	02/11/2021 919h										
Test Code: 8260D-W													
Surr: Toluene-d8	49.6	µg/L	SW8260D			50.00		99.3	81 - 123				
Lab Sample ID: 2102291-004AMSD		Date Analyzed:	02/11/2021 1228h										
Test Code: 8260D-W													
1,1,1-Trichloroethane	10,600	µg/L	SW8260D	163	1,000	10,000	0	106	72 - 132	10500	1.04	35	
1,1,2,2-Tetrachloroethane	9,600	µg/L	SW8260D	82.0	1,000	10,000	0	96.0	68 - 140	9620	0.156	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	11,900	µg/L	SW8260D	1,000	1,000	10,000	0	119	54 - 174	11900	0.168	35	
1,1,2-Trichloroethane	10,500	µg/L	SW8260D	71.5	1,000	10,000	0	105	88 - 126	10200	2.42	35	
1,1-Dichloroethane	11,300	µg/L	SW8260D	715	1,000	10,000	0	113	78 - 142	11200	0.710	35	
1,1-Dichloroethene	12,300	µg/L	SW8260D	422	1,000	10,000	0	123	37 - 144	12300	0.203	35	
1,2,3-Trichlorobenzene	9,460	µg/L	SW8260D	640	1,000	10,000	0	94.6	60 - 136	9420	0.371	35	
1,2,4-Trichlorobenzene	9,420	µg/L	SW8260D	765	1,000	10,000	0	94.2	45 - 138	9490	0.740	35	
1,2-Dibromo-3-chloropropane	8,200	µg/L	SW8260D	148	2,500	10,000	0	82.0	71 - 129	8240	0.487	35	
1,2-Dibromoethane	10,100	µg/L	SW8260D	124	1,000	10,000	0	101	77 - 124	10100	0.198	35	
1,2-Dichlorobenzene	10,100	µg/L	SW8260D	77.5	1,000	10,000	0	101	70 - 130	10000	0.892	35	
1,2-Dichloroethane	9,900	µg/L	SW8260D	72.0	1,000	10,000	0	99.1	76 - 132	10000	1.25	35	
1,2-Dichloropropane	10,100	µg/L	SW8260D	141	1,000	10,000	0	101	81 - 135	10100	0.148	35	
1,3-Dichlorobenzene	10,500	µg/L	SW8260D	95.5	1,000	10,000	0	105	71 - 139	10400	1.00	35	
1,4-Dichlorobenzene	10,300	µg/L	SW8260D	114	1,000	10,000	0	103	67 - 138	10200	0.195	35	
1,4-Dioxane	77,100	µg/L	SW8260D	10,800	25,000	100,000	0	77.1	42 - 171	74400	3.51	35	
2-Butanone	11,300	µg/L	SW8260D	610	5,000	10,000	0	113	69 - 236	11700	3.26	35	
2-Hexanone	7,340	µg/L	SW8260D	112	2,500	10,000	0	73.4	51 - 167	7260	1.03	35	
4-Methyl-2-pentanone	7,900	µg/L	SW8260D	148	2,500	10,000	0	79.0	68 - 128	8020	1.51	35	
Acetone	12,200	µg/L	SW8260D	1,380	5,000	10,000	0	122	36 - 198	12900	5.73	35	
Benzene	20,300	µg/L	SW8260D	73.5	1,000	10,000	8950	113	78 - 125	20300	0.0986	35	
Bromochloromethane	10,300	µg/L	SW8260D	356	1,000	10,000	0	103	80 - 130	10400	1.12	35	
Bromodichloromethane	9,860	µg/L	SW8260D	69.0	1,000	10,000	0	98.6	85 - 123	9690	1.74	35	
Bromoform	9,480	µg/L	SW8260D	75.5	1,000	10,000	0	94.8	65 - 122	9150	3.49	35	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102291-004AMSD	Date Analyzed: 02/11/2021 1228h												
Test Code: 8260D-W													
Bromomethane	8,470	µg/L	SW8260D	1,540	2,500	10,000	0	84.7	10 - 168	8310	1.97	35	
Carbon disulfide	12,700	µg/L	SW8260D	412	1,000	10,000	0	127	34 - 178	12400	2.38	35	
Carbon tetrachloride	10,700	µg/L	SW8260D	430	1,000	10,000	0	107	66 - 143	10600	0.987	35	
Chlorobenzene	10,800	µg/L	SW8260D	77.0	1,000	10,000	0	108	74 - 126	10600	2.43	35	
Chloroethane	11,600	µg/L	SW8260D	685	1,000	10,000	0	116	45 - 154	11300	2.67	35	
Chloroform	10,200	µg/L	SW8260D	83.0	1,000	10,000	0	102	74 - 120	10200	0	35	
Chloromethane	8,180	µg/L	SW8260D	401	1,500	10,000	0	81.8	30 - 149	7940	2.98	35	
cis-1,2-Dichloroethene	10,800	µg/L	SW8260D	94.0	1,000	10,000	0	108	70 - 132	10700	0.464	35	
cis-1,3-Dichloropropene	10,300	µg/L	SW8260D	430	1,000	10,000	0	103	84 - 123	10300	0.485	35	
Cyclohexane	9,820	µg/L	SW8260D	117	1,000	10,000	0	98.2	43 - 181	9850	0.254	35	
Dibromochloromethane	9,860	µg/L	SW8260D	66.0	1,000	10,000	0	98.6	75 - 123	9700	1.69	35	
Dichlorodifluoromethane	8,580	µg/L	SW8260D	215	1,000	10,000	0	85.9	10 - 165	8410	2.06	35	
Ethylbenzene	11,300	µg/L	SW8260D	82.0	1,000	10,000	0	113	67 - 130	11100	2.23	35	
Isopropylbenzene	11,000	µg/L	SW8260D	141	1,000	10,000	0	110	68 - 147	10700	2.35	35	
m,p-Xylene	26,900	µg/L	SW8260D	288	1,000	20,000	3000	119	69 - 142	26300	2.28	35	
Methyl Acetate	15,700	µg/L	SW8260D	635	2,500	10,000	0	157	87 - 300	16000	1.76	35	
Methyl tert-butyl ether	10,600	µg/L	SW8260D	800	1,000	10,000	0	106	58 - 135	10500	0.808	35	
Methylcyclohexane	10,400	µg/L	SW8260D	284	1,000	10,000	0	104	55 - 151	10200	1.75	35	
Methylene chloride	11,000	µg/L	SW8260D	190	1,000	10,000	0	110	65 - 154	11100	1.08	35	
Naphthalene	8,260	µg/L	SW8260D	352	1,000	10,000	0	82.6	55 - 128	8030	2.89	35	
o-Xylene	11,700	µg/L	SW8260D	76.5	1,000	10,000	775	109	70 - 142	11300	3.13	35	
Styrene	9,790	µg/L	SW8260D	66.5	1,000	10,000	0	97.9	71 - 135	9620	1.75	35	
Tetrachloroethene	11,600	µg/L	SW8260D	259	1,000	10,000	0	116	58 - 149	11400	1.74	35	
Toluene	23,100	µg/L	SW8260D	142	1,000	10,000	12500	106	69 - 129	22700	1.83	35	
trans-1,2-Dichloroethene	11,800	µg/L	SW8260D	141	1,000	10,000	0	118	70 - 134	11600	2.31	35	
trans-1,3-Dichloropropene	9,960	µg/L	SW8260D	386	1,000	10,000	0	99.6	63 - 132	9860	1.11	35	
Trichloroethene	11,000	µg/L	SW8260D	90.0	1,000	10,000	0	110	72 - 136	10800	2.38	35	
Trichlorofluoromethane	10,500	µg/L	SW8260D	188	1,000	10,000	0	105	59 - 152	10600	0.951	35	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical

Lab Set ID: 2102282

Project: Forseys Cleaners Wells 11-15 / 1210086

Contact: Joe DeGooyer

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2102291-004AMSD	Date Analyzed: 02/11/2021 1228h												
Test Code: 8260D-W													
Vinyl chloride	9,980	µg/L	SW8260D	102	500	10,000	0	99.8	43 - 152	9510	4.82	35	
Surr: 1,2-Dichloroethane-d4	24,500	µg/L	SW8260D			25,000		97.9	80 - 136				
Surr: 4-Bromofluorobenzene	24,900	µg/L	SW8260D			25,000		99.6	85 - 121				
Surr: Dibromofluoromethane	25,700	µg/L	SW8260D			25,000		103	78 - 132				
Surr: Toluene-d8	25,800	µg/L	SW8260D			25,000		103	81 - 123				

WORK ORDER Summary

Work Order: **2102282**

Page 1 of 1

Client: Applied Geotechnical

Due Date: 2/17/2021

Client ID: APP100

Contact: Joe DeGooyer

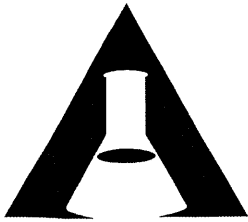
Project: Forseys Cleaners Wells 11-15 / 1210086

QC Level: II+

WO Type: Standard

Comments: 5 Day Rush / QC2+;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2102282-001A	MW-11	2/10/2021 1050h	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2102282-002A	MW-12	2/10/2021 1130h	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2102282-003A	MW-12 Duplicate	2/10/2021 1140h	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2102282-004A	MW-13	2/10/2021 1220h	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2102282-005A	MW-14	2/10/2021 1310h	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2102282-006A	MW-15	2/10/2021 1445h	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2102282-007A	Trip Blank	2/10/2021	2/10/2021 1551h	8260D-W	Aqueous		Purge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								



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CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

2102282
AWAL Lab Sample Set #
Page _____ of _____

QC Level: 1 2 (2+) 3+	Turn Around Time: 1 2 3 4 (5) Std	Rush sets received after 4:00 pm are considered received on the next business day.	Due Date: 2/17
--	--	--	--------------------------

# of Containers Sample Matrix Total Vocs	<input type="checkbox"/> Report down to the MDL <input type="checkbox"/> Include EDD: <input type="checkbox"/> Lab Filter for: <input type="checkbox"/> Field Filtered For:
	For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:
	Known Hazards & Sample Comments

Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Laboratory Use Only

COC Tape Was:

1 Present on Outer Package	Y	N	NA
2 Unbroken on Outer Package	Y	N	NA
3 Present on Sample	Y	N	
4 Unbroken on Sample	Y	N	NA

Samples Were:

1 Shipped (or hand delivered)	<input checked="" type="checkbox"/>
2 Ambient (or Chilled)	<input checked="" type="checkbox"/>
3 Temperature	4.3 °C
4 Received Intact	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
5 Properly Preserved	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N Checked at bench
6 Received Within Holding Times	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Sample Labels and COC Record Match?
 Y N

Client: Applied Geotechnical Engineering Consultants
 Address: 600 West Sandy Parkway
 City, State, Zip: Sandy UT 84570
 Contact: Joe De Gooyer
 Phone #: 801-560-1239 Cell #: 801-651-5899
 E-mail: jode@agc.com
 Project Name: Forsey's Cleaners wells 11-15
 Project #: 1210086
 PO #:
 Sampler Name: Joseph R De Gooyer

Sample Site ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Total Vocs														
1 MW-11	2/10/21	10:50	3	W	/														
2 MW-12	2/10/21	11:30	3	W	/														
3 MW-12 Duplicate	2/10/21	11:40	3	W	/														
4 MW-13	2/10/21	12:20	3	W	/														
5 MW-14	2/10/21	1:10	3	W	/														
6 MW-15	2/10/21	2:45	3	W	/														
7 Trip Blank	-	-	3	W	/														
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: Signature: <u>Joseph R De Gooyer</u>	Date: <u>2/10/21</u>	Received by: Signature: <u>Elma Haynes</u>	Date: <u>2/10/21</u>
Print Name: <u>Joseph R De Gooyer</u>	Time: <u>15:51</u>	Print Name: <u>Elma Haynes</u>	Time: <u>15:51</u>
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions: