SECOND QUARTER 2014 GROUNDWATER MONITORING

FORMER GROVE STREET WASH RACK SITE
3884 MARTIN LUTHER KING JUNIOR WAY
OAKLAND, CALIFORNIA

Prepared for:

Neil Cotter and John Coyle
2847 Arguello Drive
Burlingame, California 94010

Prepared by:

URS Corporation
One Montgomery Street, Suite 900
San Francisco, California 94104

July 30, 2014

IDENTIFICATION FORM

Document Title: **Second Quarter 2014 Groundwater Monitoring**
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California 94609

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Title: Senior Project Geologist

Mr. Neil and Mrs. Mary Cotter
2847 Arguello Drive
Burlingame, CA 94010

July, 2014

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway

Subject: Responsible Party Perjury Statement for the 2014 2nd Quarterly Monitoring and Sampling Report, Former Grove Street Wash Rack Site, 3884 Martin Luther King Jr. Way Oakland, California (Fuel Leak Case RO000027 and Global ID # T0600102106)

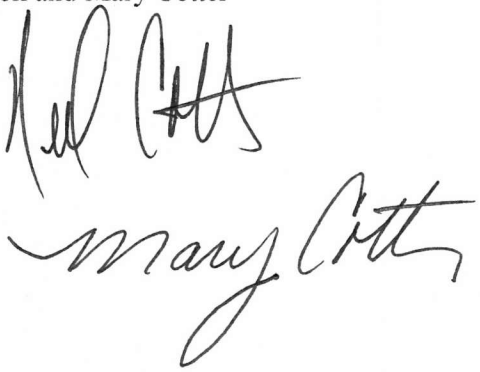
Dear Ms. Detterman:

Attached for your review please find the URS 2014 2nd Quarterly Monitoring and Sampling Report with the results of the soil and groundwater investigation at the above referenced site.

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,

Neil and Mary Cotter



July 31, 2014

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway

Subject: Responsible Party Perjury Statement for 2nd Quarterly Monitoring and Sampling Report for 2014, Former Grove Street Wash Rack Site, 3884 Martin Luther King Jr. Way Oakland, California (Fuel Leak Case RO000027 and Global ID # T0600102106)

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Please contact me at 415-243-3878 or at kali.futnani@urs.com should you have any questions or require any clarifications.

Sincerely,
URS CORPORATION

Kali Futnani
Environmental Scientist/ Project Manager

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1.0 INTRODUCTION

URS is pleased to submit this report detailing the results of the Second Quarter 2014 groundwater monitoring at the former Grove Street Wash Rack Site located at 3884 Martin Luther King Junior Way in Oakland, California (Site). The site location is shown on Figure 1. The Second Quarter 2014 sampling is the third monitoring event at the Site since the groundwater monitoring wells were installed in July, 2013 as part of additional investigation activities required by the Alameda County Department of Environmental Health (ACDEH).

The body of this report includes a discussion of sampling activities, current analytical results, and a comparison to previous groundwater analytical results. The report includes a summary table containing current and previous monitoring data, a groundwater elevation contour map, and a chemical concentration map showing concentrations of detected contaminants. Appendices include well purging records, analytical laboratory and data validation reports and chain of custody records.

2.0 SITE CONDITIONS

2.1 SITE LOCATION AND HISTORICAL AND CURRENT USES

The Site is in a mixed commercial and residential area in the City of Oakland, California. It occupies approximately 10,250 square feet, and is identified as Assessor's Parcel Number (APN) 012-0968-31. The property is zoned for residential use.

The Site is bordered by the following:

- North: 39th Street, followed by a retail business;
- East: the Highway 24 right-of-way, followed by the MacArthur BART station;
- South: a multi-story residential/commercial building; and
- West: Martin Luther King Junior Way (MLK Jr. Way), followed by residential and vacant properties.

The Site is the former location of the Grove Street Wash Rack and Lucky's Auto. Known historical Site uses include the following:

- A gas station operated on the Site in the 1950s and 1960s. Three underground storage tanks (USTs) from the gas station were removed on January 5, 1995.

- An auto body shop operated on the eastern portion of the Site until at least 2004.

A fuel and feed store and fuel yard operated at the adjacent parcel to the south (3860 MLK Jr. Way) from the 1930s to the 1950s. A lumber store and warehouse operated on the parcel in the 1960s, but the business closed and the buildings were demolished in 1971. The adjacent parcel was redeveloped into a multi-story residential and commercial building in 2006.

The Site is currently not in use. The former Site buildings have been removed, and only concrete pads and paved and unpaved areas remain on the Site. A large advertising billboard is located in the southwest corner of the parcel.

2.2 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The lithology encountered beneath the Site during additional site investigation drilling activities consists predominantly of a dark brown to yellow brown gravelly silty clay to greenish-gray and yellowish brown silty clay with sand and some gravel. The primary stratigraphic units at the Site are listed below, with the approximate ranges of depth (bgs) each unit was encountered across the Site.

- 0 to 4 feet bgs: the soil typically consisted of stiff, very dark-brown silty clay.
- 4 to 15 feet bgs: yellowish brown silty clay and mottled yellowish brown and greenish-gray silty clay.
- 15 to 20 feet bgs: Yellowish brown/greenish gray/dark reddish brown lithologies consisting of silty and clayey sands and silts. Some small (typically less than 6 inch) gravel layers were also encountered.

Depth to groundwater in the five newly installed groundwater monitoring wells ranged from 14.42 to 16.89 feet below the top of the well casings. This data was used in conjunction with top of well casing elevation data to generate a groundwater elevation contour map. Based on the July 2013 groundwater elevation data, groundwater beneath the site was interpreted to flow to the west at an approximate gradient of 0.02.

2.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

The following timeline summarizes the previous environmental investigations, activities and reporting at the Site:

- 01/05/95: Tanks #1 (650-gallon), #2 (650-gallon), and #3 (500-gallon) were removed from Site. Soil samples were collected under ACDEH observation.

- 01/17/95: Tank Removal Report prepared by Scott Environmental.
- 05/10/95: ACDEH issued a letter requiring additional work to be carried out at the Site to define the extent of contamination.
- 07/17/96: Letter by H_2O GEOL presents laboratory results of a stockpile sample.
- 09/10/02: State Water Resources Control Board (SWRCB) publishes a letter of Notice of Removal from the UST Clean-up Fund. No subsequent data in ACDEH files.
- 9/17/2004: URS issued an Environmental Investigation Report for the Site for Cal-EPA DTSC.
- 02/02/06: ACDEH approved the JCC Work Plan with technical comments.
- 03/10/06: JCC issued a Report of Soil and Groundwater Investigation summarizing the soil and grab groundwater results from eight boreholes for ACDEH.
- 11/12/2006: JCC Issued a Work Plan for Additional Investigation and Remediation at the Site to ACDEH.
- 04/2/2007: ACDEH issues a letter with technical comments on the JCC Work Plan.
- 04/27/2007: JCC sends plans and architect drawings for the development to ACDEH, in response to ACDEH's letter of 4/2/2007.
- 04/08/2008: ACDEH letter to Neil & Mary Cotter. Additional comments on the work plan and request for quarterly monitoring reports.
- 04/14/2008: ACDEH issues Notice of Responsibility. Lillie and Hillary Luckett are named as the primary RPs; Mary and Neil Cotter are named as RPs.
- 05/28/2008: ICES correspondence to ACDEH, informing SCDEH that ICES is the environmental consultant representing Neil Cotter for the 3884 MLK site.
- 07/24/2009: ACDEH sends letter to Neil and Mary Cotter notifying them of the change in groundwater monitoring requirements.
- 12/05/2012: ACDEH issues a request for a Site Investigation Work Plan to Neil & Mary Cotter and to Lillie and Hilary Luckett.
- 06/07/2013: CES letter to SCDEH requesting status of the work plan prepared by URS. CES is the environmental consultant retained by Meta/KKG. Meta Homes is the developer and KKG is responsible for construction management.

- 07/3/2013; URS submits Work Plan for Additional Soil and Groundwater Investigation. Scope of work includes installation of groundwater monitoring wells and additional soil borings.
- 07/8/2013: ACDEH approved URS Work Plan for Additional Soil and Groundwater Investigation.
- 07/9/2013: 7/12/13: URS conducts additional investigation.
- 09/6/2013: URS submits Draft FS/CAP to ACDEH. Document includes results from additional site investigation.
- October 8, 2013 URS submits Final FS/CAP to ACEHD.
- October 10, 2013 URS conducts groundwater monitoring event.
- 07/03/2014: URS submits October 2013 Groundwater Monitoring Report.

A detailed discussion of the prior site investigation findings are presented in the Feasibility Study/Corrective Action Plan prepared for the Site (URS, 2013a).

3.0 GROUNDWATER MONITORING

Groundwater monitoring was conducted at the site on July 10, 2014. Sampling was scheduled to be completed during the last week of June. However, due to unforeseen schedule impacts, sampling was not conducted until July 10, 2014. Groundwater samples were collected from the five on-site groundwater monitoring wells. Groundwater sampling methodologies and analytical results are presented in the following sections.

3.1 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater sampling and analysis was conducted in accordance with the procedures presented in the additional site investigation work plan (URS, 2013b). The wells at the site were purged and sampled using low-flow sampling techniques, to ensure the sampling of representative formation water. Prior to purging and sampling, the depth to groundwater in each of the monitoring wells was measured to the nearest 0.01 foot using an electronic interface probe and recorded in a well-purging record form.

Monitoring wells were purged using a peristaltic pump. The well screen information was used to establish the depth of the pump intake tubing in the monitoring well. Typically, the pump intake

was set at the approximate midpoint of the screened interval. Once the pump intake was set at the target depth, it was secured to ensure it did not move during purging.

The discharge tubing was connected to a YSI 6920 multiprobe flow-through cell. The flow-through cell was equipped with probes to monitor temperature, specific conductivity, pH, oxidation reduction potential (ORP), and dissolved oxygen (DO). Once purging was commenced, depth to groundwater was continually monitored to ensure the pump discharge rate produced a minimal drawdown of the water column. Additionally, the parameters listed above were continually monitored during the purging process and the readings were recorded on well-purging forms at approximate three minute intervals. Copies of the well purging logs are presented in Appendix A of this report.

When the field-measured parameters had sufficiently stabilized, a groundwater sample was collected. Parameters are considered stable when they vary less than ± 10%. Groundwater samples were collected directly from the discharge tubing from the pump. Samples were collected into laboratory-supplied 40-milliliter glass vials containing hydrochloric acid preservative. Samples were labeled with the project name, date, time of sample collection, and sample identification number, and then stored in an iced cooler prior to transport to the analytical laboratory. Sample chain-of-custody was documented from the time of collection until receipt by the laboratory.

TestAmerica, Inc. of Pleasanton, California analyzed the groundwater samples. TestAmerica, Inc. is a California Department of Public Health certified laboratory. Groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline (TPH-g) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8260B.

Field QA/QC procedures were followed to ensure field sample quality. A laboratory-supplied trip blank accompanied the samples from the field to the laboratory and was analyzed for the same constituents (TPH-g and BTEX) as the groundwater samples. Additionally, a blind duplicate sample from one of the monitoring wells was also submitted to the laboratory for analysis.

3.2 GROUNDWATER ELEVATION AND FLOW DIRECTION

Groundwater depth measurements were collected from all of the wells prior to purging. An interface probe was used to collect the depth to groundwater measurements and also check for the presence of free phase product on top of the water column. The depth measurements were used in conjunction with the top of well casing (measuring point) elevation data to generate

groundwater surface elevation data. The groundwater elevation data is summarized in Table 1. As indicated, groundwater elevations ranged from 58.75 to 58.13 feet above msl. The data indicate the groundwater elevations are, on average, approximately 0.66 feet higher than the previous sampling event in October 2013. The current groundwater elevation data were assessed to evaluate groundwater flow and gradient. Based on the groundwater elevation measured in July 2014, the interpreted groundwater flow direction is slightly northwest at an average approximate gradient of 0.008. A groundwater elevation contour map is presented on Figure 2. Previous groundwater elevation data from July 2013 indicated groundwater flowing to the west at an average gradient of approximately 0.02 (URS, 2013).

3.3 GROUNDWATER PHYSICAL PARAMETERS

Groundwater physical parameters (conductivity, temperature, pH, ORP, and DO) were measured at regular intervals during the purging process. The final field parameter measurements prior to sampling are summarized in Table 2. The following are ranges of the final parameter measurements from all five monitoring wells at the site prior to sampling: conductivity ranged from 0.795 to 1.379 mS/cm; temperature ranged from 17.5 to 21.5 °C; pH ranged between 6.42 and 7.10 pH units; ORP ranged from -160.3 to 73.8 millivolts (mV); and DO ranged from 0.51 to 1.99 mg/L. Refer to Appendix A for the specific range of parameters in each well.

3.4 GROUNDWATER ANALYTICAL RESULTS

The results of the analyses are summarized in Table 3 and are shown graphically on Figure 3. TPH-g and BTEX were detected in two of the five monitoring wells (MW-2 and MW-4) located at the Site. This is consistent with the detections from previous sampling events at the site conducted in July and October 2013. Concentrations of TPH-g detected were 8,800 µg/L (MW-2) and 32,000 µg/L (MW-40; duplicate of MW-4). Concentrations of benzene detected were 4,800 µg/L (MW-2) and 3,100 µg/L (MW-40; duplicate of MW-4). Concentrations of toluene detected were 130 µg/L (MW-2) and 1,100 µg/L (MW-40; duplicate of MW-4). Concentrations of ethylbenzene detected were 140 µg/L (MW-2) and 2,400 µg/L (MW-40; duplicate of MW-4). Xylene was only detected in sample MW-40, duplicate of MW-4, at a concentration of 6,100 µg/L. It should be noted that the laboratory reporting limit for xylene was raised to 200 µg/L due to dilution of the sample for analysis. Additionally, based on the data validation of the laboratory data by a URS senior chemist, the results for TPH-g, benzene, toluene, and ethylbenzene for samples MW-4 and MW-40 (duplicate of MW-4) were flagged as estimated (J) due to the Relative Percent Difference between the primary sample and duplicate sample exceeding 20 percent. There were no detections of TPH-g or BTEX in the Trip Blank. Based on

the data validation, the data was determined to be usable, as qualified, for its intended purpose. None of the data was rejected.

With the exception of xylene in MW-2, all of the concentrations of TPH-g and BTEX detected in monitoring wells MW-2 and MW-4 exceed their respective San Francisco Bay Regional water quality control Board Tier 1 Environmental Screening Level (ESL). However, the laboratory reporting limit for xylene in MW-2 is ten times greater than the ESL value. Additionally, as shown in Table 1, the concentrations of TPH-g and BTEX in monitoring well MW-4 have increased since the last sampling conducted in October, 2013. The reason for the increase is not clear but may be attributable to the overall rise in groundwater elevation at the site since the last sampling round. It should also be noted that the concentration of benzene detected in MW-2 appears to be disproportionately high relative to the concentration of TPH-g. The reason for this is not understood as there were no laboratory quality assurance/quality control failures for the benzene analysis for MW-2 identified during validation of the laboratory data. Copies of the laboratory and data validation reports are presented in Appendix B of this report.

4.0 CONCLUSIONS

The results of the groundwater monitoring to date indicate the presence of TPH-g and BTEX in the groundwater beneath the site. Based on the results of soil and groundwater investigations conducted at the Site to date, the source of the contamination is likely releases from underground storage tanks (USTs) that were previously used at the Site. There is currently no data to indicate that contaminated groundwater has migrated offsite. However ACEH is requiring the installation of three offsite wells to assess the extent of groundwater contamination. These wells will be installed in August 2014 and added to the routine groundwater monitoring program for the Site. The next quarterly groundwater monitoring event will be conducted in September 2014. As discussed with ACEHD, the volatile organic compounds naphthalene, 1,2-dichloroethane, and cis-1,2,-dichloroethene will be added back to the list of analyses.

5.0 REFERENCES

URS, 2013a. Feasibility Study/Corrective Action Plan, Former Grove Street Wash Rack Site, 3884 Martin Luther King Junior Way, Oakland, California. October 8, 2013.

URS, 2013b. Site Investigation Work Plan, Former Grove Street Wash Rack Site, 3884 Martin Luther King Junior Way, Oakland, California. July 5, 2013.

TABLES

Table 1
Groundwater Elevation Data
Former Grove Street Wash Rack Site
July 2014

Well	Date	Well Screen (feet bgs)	Depth to Water (feet)	TOC Elevation (feet msl)	Groundwater Elevation (feet msl)
MW-1	7/18/2013	12-19	14.43	72.83	58.40
MW-1	10/23/2013	12-19	14.99	72.83	57.84
MW-1	7/10/2014	12-19	14.41	72.83	58.42
MW-2	7/18/2013	13-20	14.90	73.16	58.26
MW-2	10/23/2013	13-20	15.07	73.16	58.09
MW-2	7/10/2014	13-20	14.69	73.16	58.47
MW-3	7/18/2013	13-20	15.08	73.54	58.46
MW-3	10/23/2013	13-20	15.45	73.54	58.09
MW-3	7/10/2014	13-20	14.68	73.54	58.86
MW-4	7/18/2013	11-18	14.42	73.18	58.76
MW-4	10/23/2013	11-18	15.15	73.18	58.03
MW-4	7/10/2014	11-18	14.43	73.18	58.75
MW-5	7/18/2013	15-21	16.89	74.92	58.03
MW-5	10/23/2013	15-21	17.65	74.92	57.27
MW-5	7/10/2014	15-21	16.79	74.92	58.13

TOC = top of casing
bgs = below ground surface
msl = mean sea level

Table 2
Groundwater Physical Parameters
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California

Well	Date	Temperature (^{o}Celsius)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)
MW-1	7/18/2013	20.0	1.129	5.74	6.35	63.4
MW-1	10/23/2013	19.2	1.189	1.45	6.42	-55.4
MW-1	7/10/2014	20.0	1.100	0.81	6.42	33.2
MW-2	7/18/2013	18.7	0.901	3.63	6.62	51.2
MW-2	10/23/2013	18.3	0.852	0.57	6.59	-93.4
MW-2	7/10/2014	19.3	0.878	0.51	6.72	-160.3
MW-3	7/18/2013	18.7	0.799	5.36	6.52	71.9
MW-3	10/23/2013	18.3	1.133	1.84	6.94	213.6
MW-3	7/10/2014	19.6	1.121	1.99	7.10	54.3
MW-4	7/18/2013	20.5	1.438	4.21	6.44	25.1
MW-4	10/23/2013	20.6	1.271	0.92	6.34	-85.3
MW-4	7/10/2014	21.5	1.379	0.65	6.50	-47.9
MW-5	7/18/2013	17.1	0.845	6.17	6.63	78.2
MW-5	10/23/2013	17.0	0.841	0.81	6.56	205.2
MW-5	7/10/2014	17.5	0.795	0.53	6.48	73.8

DO = Dissolved Oxygen
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolt
ORP = Oxidation-Reduction Potential

Table 3
Groundwater Analytical Results
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California

		Analyte							
Well ID	**Date**	**TPH-g**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**Naphthalene**	**1,2-DCA**	**cis-1,2- DCE**
MW-1	7/18/2013	<50	<0.5	<0.5	<0.5	<1.0	<1.0	**4.5**	<0.5
MW-1	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
MW-10[2]	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
MW-1	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
MW-2	7/18/2013	**560**	**220**	**2.9**	**4.6**	**35**	<1.0	**4.3**	<0.5
MW-2	10/23/2013	**9400**	**8200**	**200**	**120**	**380**	NS	NS	NS
MW-2	7/10/2014	**8800 J**	**4800**	**130**	**140**	<200	NS	NS	NS
MW-3	7/18/2013	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-3	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
MW-3	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
MW-4	7/18/2013	**9500**	**980**	**510**	**270**	**2600**	**180**	**0.7**	<0.50
MW-40[1]	7/18/2013	**13000**	**1100**	**930**	**800**	**3500**	**180**	**0.6**	<0.50
MW-4	10/23/2013	**15000**	**1800**	**480**	**1500**	**3100**	NS	NS	NS
MW-4	7/10/2014	**25000 J**	**2500 J**	**950**	**1800 J**	**6400**	NS	NS	NS
MW-40[1]	7/10/2014	**32000 J**	**3100 J**	**1100**	**2400 J**	**6100**	NS	NS	NS
MW-5	7/18/2013	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-5	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
MW-5	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
Trip Blank	7/18/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
Trip Blank	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
Trip Blank	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NS	NS	NS
	ESL	100	1.0	40	30	20	6.1	0.5	6.0

NOTES

All Results Reported in µg/L (ppb) unless otherwise stated

Values in bold are detections above the laboratory reporting limit

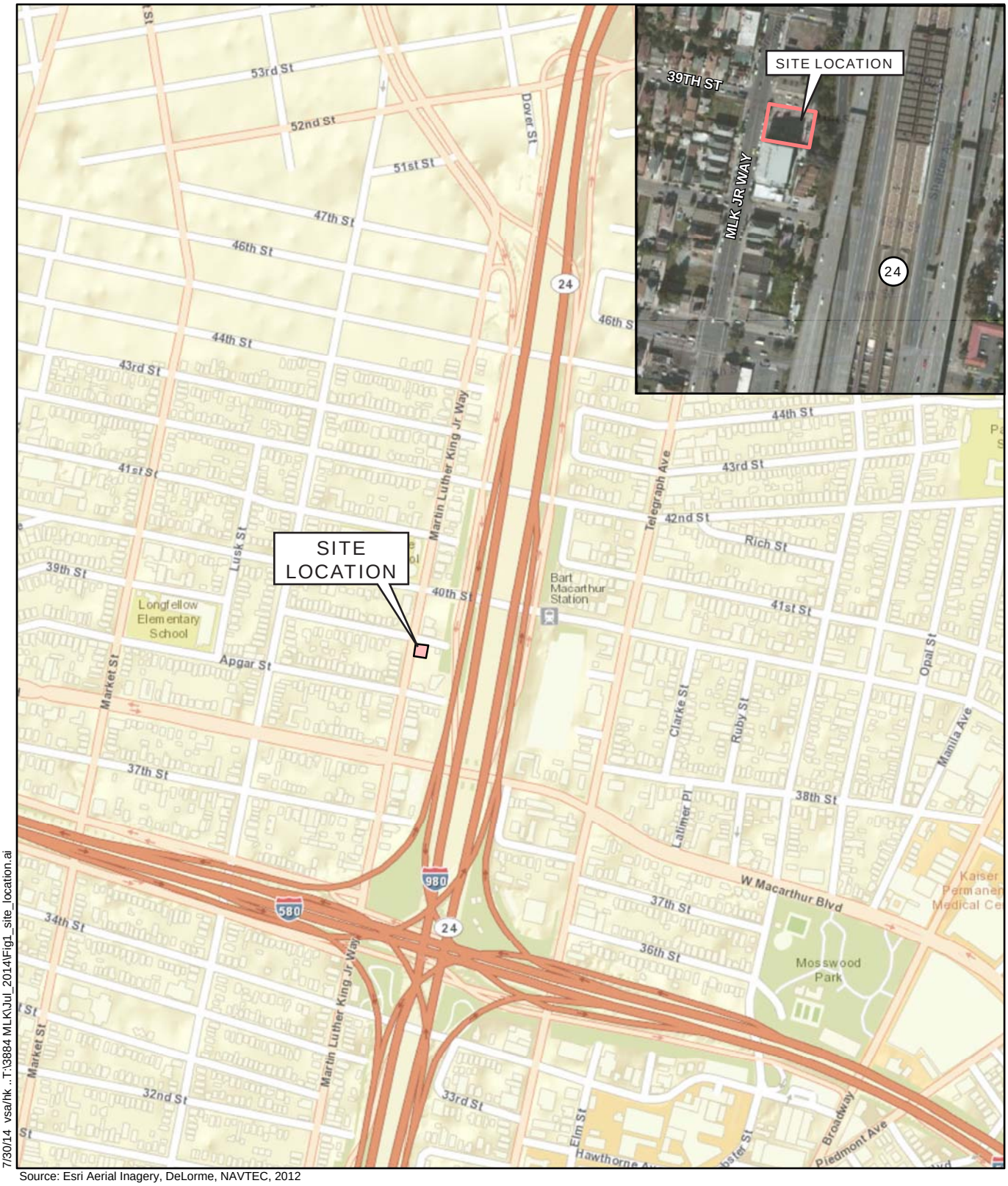
Shaded values exceed the ESL

ESL - San Francisco Bay Regional Water Quality Control Board - 2013 Tier 1 Environmental Screening Levels

[1] Field duplicate of MW-4

[2] Field duplicate of MW-1

FIGURES



Source: Esri Aerial Inagery, DeLorme, NAVTEC, 2012

7/30/14 vsa/hk ..T:\3884 MLK\Jul_2014\Fig1_site_location.ai

0 500 1000 FEET

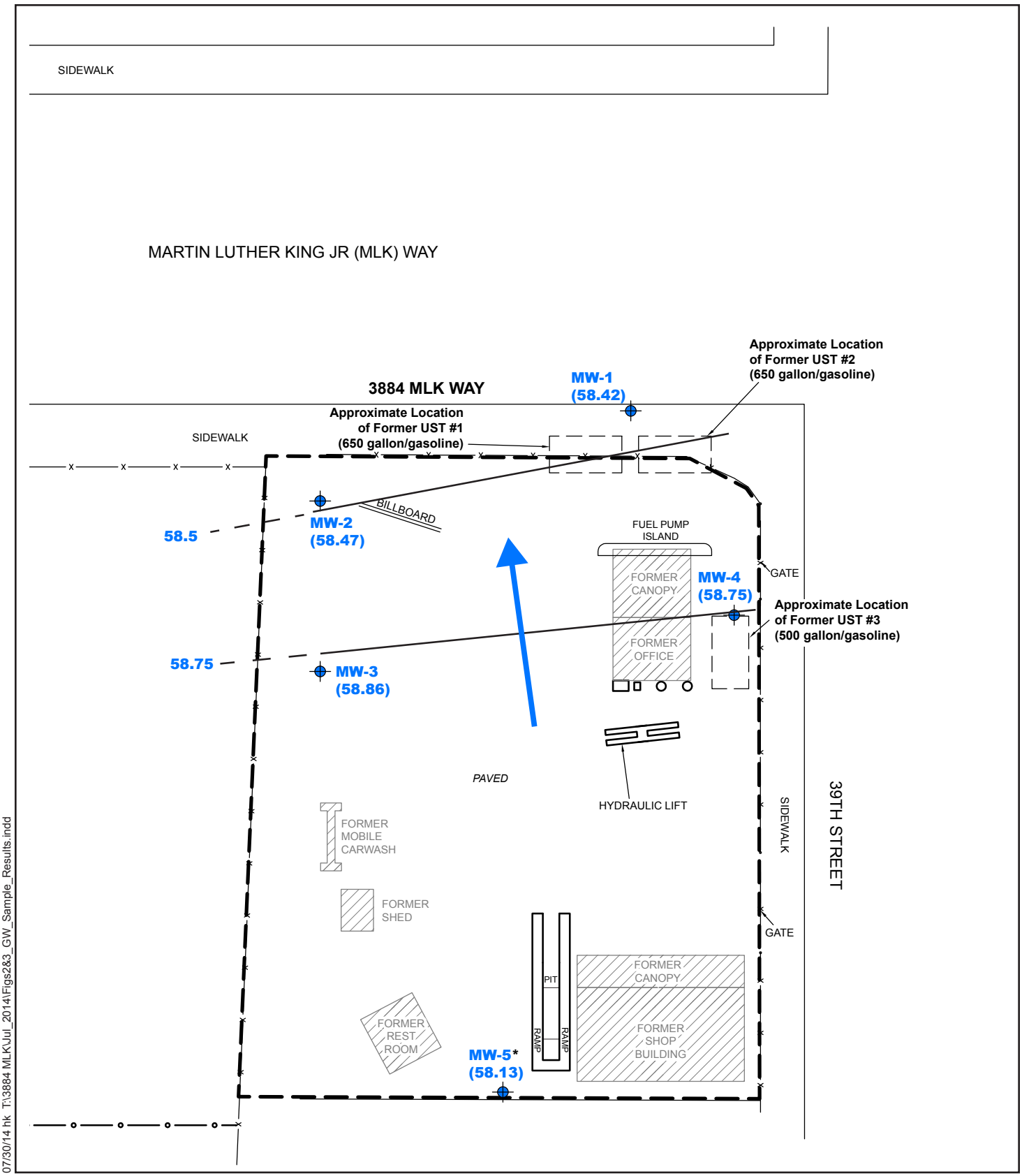
SITE LOCATION MAP

July 2014
28068161

3884 Martin Luther King, Jr. Way
Oakland, California

URS

FIGURE 1



MW-1 (57.42) Proposed Monitoring Well and Groundwater Elevation

Interpreted Groundwater Flow Direction
Approximate Average Gradient = 0.008

*Elevation data not used for contouring.

0 25 FEET

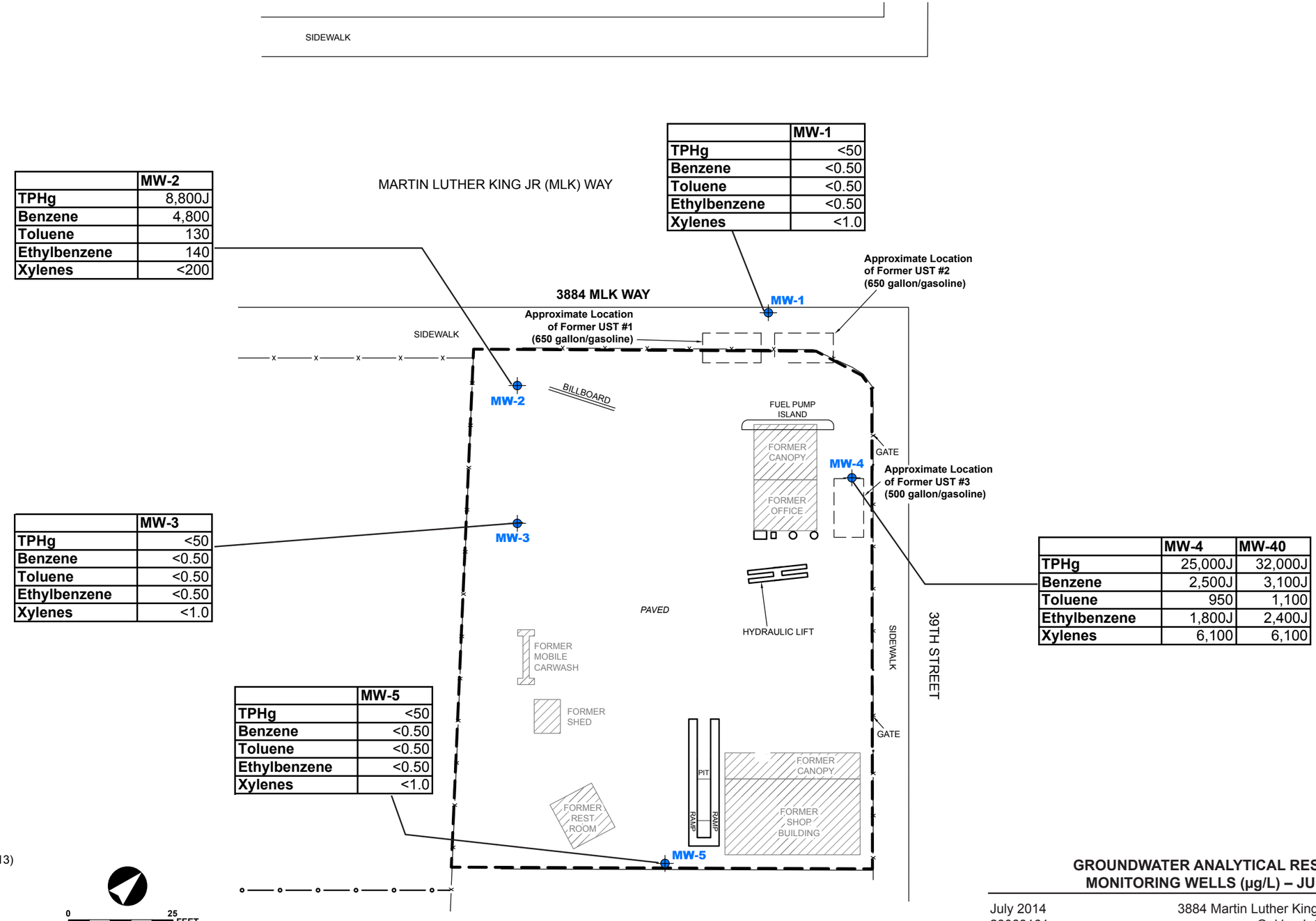
GROUNDWATER ELEVATION

July 2014
28068161

3884 Martin Luther King, Jr. Way
Oakland, California

URS

FIGURE 2



	MW-1
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0

	MW-2
TPHg	8,800J
Benzene	4,800
Toluene	130
Ethylbenzene	140
Xylenes	<200

	MW-3
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0

	MW-5
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0

	MW-4	MW-40
TPHg	25,000J	32,000J
Benzene	2,500J	3,100J
Toluene	950	1,100
Ethylbenzene	1,800J	2,400J
Xylenes	6,100	6,100

GROUNDWATER ANALYTICAL RESULTS – MONITORING WELLS (µg/L) – JULY 2014

July 2014
28068161

3884 Martin Luther King, Jr. Way
Oakland, California

URS

FIGURE 3

07/30/14 hk/vsa T:\3884 MLK\Jul_2014\Figs2&3_GW_Sample_Results.indd

APPENDIX A

WELL PURGE LOGS

URS
1 Montgomery Street, Suite 900
San Francisco, CA 94104
415.896.5858 Fax 415.882.9261

GROUNDWATER SAMPLING LOG

SITE NAME AND ADDRESS	JOB NUMBER	DATE	WELL #
3384 MLK	28068161	7/10/14	MW-1

PERSONNEL CONDUCTING SAMPLING: KF + RB

METER USED: ☑ YSI6920 ☐ YSI3500 ☐ MP2 ☐ OTHER :

WELL / WATER STATUS

PID READING: –

DEPTH TO WATER (FROM TOP OF PVC): 14.41

WATER CONDITION (Color & Odor, Oil Sheen, Etc.): Clear; slight TPH-g odor

REMARKS: (Weather/Area? Ground surface/Nearby activities/Etc.): Sunny; Wind Gusty from South

FIELD READINGS

METHOD: ☑ LOW FLOW ☐ PURGING

TOTAL PURGED (GAL) 3L + flow cell TOTAL PURGE TIME (MIN) 15

TIME	WATER LEVEL	PURGE RATE	VOLUME PURGED	TEMP. (C)	pH	CONDUCT. (25C)	TURBIDITY (NTU)	D.O. (mg/L)	REDOX POTENTIAL
1255	14.82	200 mL/min		20.33	6.60	1107	6.7	2.40	38.6
1258	15.00	"	0.6L	20.06	6.49	1098	4.5	1.48	40.5
1301	15.11	"	1.2L	20.03	6.46	1098	4.8	1.17	40.8
1304	15.19	"	1.8L	20.03	6.44	1098	4.8	0.97	40.8
1307	15.27	"	2.4L	20.01	6.44	1099	4.3	0.86	38.2
1310	15.32	"	3.0L	20.00	6.42	1100	3.6	0.81	33.2

SAMPLE

TIME SAMPLE TAKEN: 1315

SAMPLE ID: MW-01

ANALYSES REQUESTED: 8260B TPH-g BTEX

URS
1 Montgomery Street, Suite 900
San Francisco, CA 94104
415.896.5858 Fax 415.882.9261

GROUNDWATER SAMPLING LOG

SITE NAME AND ADDRESS	JOB NUMBER	DATE	WELL #
3884 MLK	28068161	7/10/14	MW-2

PERSONNEL CONDUCTING SAMPLING

METER USED ☒ YSI6920 ☐ YSI3500 ☐ MP2 ☐ OTHER :

WELL / WATER STATUS

PID READING

DEPTH TO WATER (FROM TOP OF PVC) 14.69'

WATER CONDITION (Color & Odor, Oil Sheen, Etc.) clear; Moderate to strong odor of sulfur & TPH-g

REMARKS: (Weather/Area? Ground surface/Nearby activities/Etc.)
Sunny; [redacted] Wind from the west

FIELD READINGS

METHOD: ☒ LOW FLOW ☐ PURGING

TOTAL PURGED (GAL) 2.4L + flow cell TOTAL PURGE TIME (MIN) 12

TIME	WATER LEVEL	PURGE RATE	VOLUME PURGED	TEMP. (C)	pH	CONDUCT. (25C)	TURBIDITY (NTU)	D.O. (mg/L)	REDOX POTENTIAL
1128	15.25	200		19.77	6.88	881	-0.4	1.00	-147.8
1131	15.49	"	0.6L	19.37	6.78	877	0.0	0.68	-153.7
1134	15.65	"	1.2L	19.30	6.75	877	0.6	0.59	-159.4
1137	15.76	"	1.8L	19.30	6.75	876	0.7	0.54	-164.9
1140	15.91	"	2.4L	19.34	6.72	878	0.9	0.51	-160.3

SAMPLE

TIME SAMPLE TAKEN	ANALYSES REQUESTED
SAMPLE ID: MW-2	8260B BTEX & TPH-g

URS
1 Montgomery Street, Suite 900
San Francisco, CA 94104
415.896.5858 Fax 415.882.9261

GROUNDWATER SAMPLING LOG

SITE NAME AND ADDRESS	JOB NUMBER	DATE	WELL #
3884 MLK	28068161	7/10/14	MW-3

PERSONNEL CONDUCTING SAMPLING

METER USED ☑ YSI6920 ☐ YSI3500 ☐ MP2 ☐ OTHER :

WELL / WATER STATUS

PID READING

DEPTH TO WATER (FROM TOP OF PVC) 14.68

WATER CONDITION (Color & Odor, Oil Sheen, Etc.) Clear; No odor

REMARKS: (Weather/Area? Ground surface/Nearby activities/Etc.) Wind from west (slight); Sunny

FIELD READINGS

METHOD: ☑ LOW FLOW
☐ PURGING

TOTAL PURGED (GAL) 2.22L + Flow Cell TOTAL PURGE TIME (MIN) 9

TIME	WATER LEVEL	PURGE RATE	VOLUME PURGED	TEMP. (C)	pH	CONDUCT. (25C)	TURBIDITY (NTU)	D.O. (mg/L)	REDOX POTENTIAL
1049	15.32	300		19.11	7.14	1117	2.3	2.37	50.0
1052	15.48	240	0.9L	19.06	7.11	1116	1.7	2.16	50.0
1055	15.66	200	1.62L	19.36	7.10	1118	1.6	2.04	54.0
1058	15.82	"	2.22L	19.55	7.10	1121	1.8	1.99	54.3

SAMPLE

TIME SAMPLE TAKEN 11:05

SAMPLE ID MW-3

ANALYSES REQUESTED 8260B TPH-g & BTEX

URS
1 Montgomery Street, Suite 900
San Francisco, CA 94104
415.896.5858 Fax 415.882.9261

GROUNDWATER SAMPLING LOG

SITE NAME AND ADDRESS	JOB NUMBER	DATE	WELL #
3884 Mclk	28068161	7/10/14	MW-4

PERSONNEL CONDUCTING SAMPLING: KF + RB

METER USED: ☑ YSI6920 ☐ YSI3500 ☐ MP2 ☐ OTHER :

WELL / WATER STATUS

PID READING: –

DEPTH TO WATER (FROM TOP OF PVC): 14.43

WATER CONDITION (Color & Odor, Oil Sheen, Etc.): Clear; Moderate TPH-g odor

REMARKS: (Weather/Area? Ground surface/Nearby activities/Etc.) Sunny, windy from west

FIELD READINGS

METHOD: ☑ LOW FLOW ☐ PURGING

TOTAL PURGED (GAL) 2.4L + Flow Cell TOTAL PURGE TIME (MIN) 12

TIME	WATER LEVEL	PURGE RATE	VOLUME PURGED	TEMP. (C)	pH	CONDUCT. (25C)	TURBIDITY (NTU)	D.O. (mg/L)	REDOX POTENTIAL
1210	14.90	200		21.70	6.52	1399	5.2	1.01	-69.2
1213	15.15	"	0.6L	21.46	6.52	1385	2.7	0.82	-53.4
1216	15.32	"	1.2L	21.44	6.51	1380	1.2	0.72	-55.3
1219	15.50	"	1.8L	21.46	6.51	1381	1.0	0.69	-49.3
1222	15.79	"	2.4L	21.46	6.50	1379	1.1	0.65	-47.9

SAMPLE

TIME SAMPLE TAKEN: 12:25 / 12:40

SAMPLE ID: MW-4 / MW-40 (dupe)

ANALYSES REQUESTED: 8260B BTEX THH-g

URS
1 Montgomery Street, Suite 900
San Francisco, CA 94104
415.896.5858 Fax 415.882.9261

GROUNDWATER SAMPLING LOG

SITE NAME AND ADDRESS	JOB NUMBER	DATE	WELL #
3884 MLK	28608161	7/10/14	MW-5

PERSONNEL CONDUCTING SAMPLING: KF + RB

METER USED: ☑ YSI6920 ☐ YSI3500 ☐ MP2 ☐ OTHER :

WELL / WATER STATUS

PID READING: NA

DEPTH TO WATER (FROM TOP OF PVC): 16.79

WATER CONDITION (Color & Odor, Oil Sheen, Etc.): clear, No odor

REMARKS: (Weather/Area? Ground surface/Nearby activities/Etc.): overcast, 60-65° Slight wind

)

FIELD READINGS

METHOD: ☑ LOW FLOW ☐ PURGING

TOTAL PURGED (GAL) 3.96L + Flow Cell TOTAL PURGE TIME (MIN) 15

TIME	WATER LEVEL	PURGE RATE	VOLUME PURGED	TEMP. (C)	pH	CONDUCT. (25C)	TURBIDITY (NTU)	D.O. (mg/L)	REDOX POTENTIAL
959	17.42	200ml/min		17.67	6.62	797 us/cm	2.1	0.91	49.2
1002	17.65	"	.9L	17.59	6.54	797	2.0	0.80	51.8
1005	17.79	240	1.8L	17.50	6.49	795	0.8	0.70	57.3
1008	17.91	"	2.52L	17.51	6.49	795	1.0	0.62	65.2
1011	18.09	"	3.24L	17.45	6.47	796	0.4	0.56	73.1
1014	18.13	200	3.96L	17.47	6.48	795	0.3	0.53	73.8
MD Sampled w/MS/MSD									

SAMPLE

TIME SAMPLE TAKEN	ANALYSES REQUESTED
1020	8260B BTEX TPHg
SAMPLE ID: MW-5	

APPENDIX B

ANALYTICAL AND DATA VALIDATION REPORTS

LEVEL III Data Validation Report

PROJECT: 3884 MLK/Oakland

LABORATORY: Test America; Pleasanton, CA

LAB NUMBER: 720-58574

SAMPLES: MW-5, MW-3, MW-2, MW-4, MW-40, MW-1, TAL-SF-TB

MATRIX: Water

Analysis	BTEX + Gasoline Range Organics (GRO) 8260B / CA_LUFT MS
Holding Time	✓
Surrogate Recovery	✓
MS/MSD (MW-5)	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates (MW-4 and MW-40)	Note 1
Trip Blanks	✓
Reporting Limits	Notes 2, 3

✓ – QC criteria were met.

Notes: 1. The following discrepancies were noted in the duplicate pair:

Compound	Concentrations (µg/L)			Concentration to use (µg/L)
	MW-4	MW-40	RPD	
Benzene	2,500	3,100	21.4	2,800
Ethylbenzene	1,800	2,400	21.8	2,100
GRO	25,000	32,000	29.8	28,500

Reported concentrations in each sample were flagged "J," estimated.

2. In order to quantitate target analytes, the following dilutions were required:

Sample	Dilution Factor
MW-2	200
MW-4	20, 50 for total xylenes
MW-40	100

Reporting limits were increased by the same factor as the dilution.

3. The laboratory revised the original report as requested by URS to provide an estimated concentration of gasoline below the reporting limit of 10,000 µg/L for sample MW-2. Consequently, that result is flagged "J," estimated.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-58574-1
Client Project/Site: 3884 MLK/Oakland
Revision: 1

For:
URS Corporation
One Montgomery Street
Suite 900
San Francisco, California 94104-4538

Attn: Ms. Kali Futnani

Authorized for release by:
7/22/2014 3:07:10 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

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

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

Table of Contents

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 720-58574-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58574-1

Comments
No additional comments.

Receipt
The samples were received on 7/10/2014 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.3º C.

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

Detection Summary

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-5 — Lab Sample ID: 720-58574-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 720-58574-2

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 720-58574-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4800		100	50	ug/L	200		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	140		100	26	ug/L	200		8260B/CA_LUFT MS	Total/NA
Toluene	130		100	34	ug/L	200		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	8800	J	10000	4200	ug/L	200		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 720-58574-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2500		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1800		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Toluene	950		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	6400		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	25000		1000		ug/L	20		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 720-58574-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3100		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2400		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	1100		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	6100		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	32000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 720-58574-6

No Detections.

Client Sample ID: TAL-SF-TB — Lab Sample ID: 720-58574-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-5
Date Collected: 07/10/14 10:20
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/11/14 13:10	1
Ethylbenzene	ND		0.50		ug/L			07/11/14 13:10	1
Toluene	ND		0.50		ug/L			07/11/14 13:10	1
Xylenes, Total	ND		1.0		ug/L			07/11/14 13:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/11/14 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*07/11/14 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*		*07/11/14 13:10*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/11/14 13:10*	*1*

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-3
Date Collected: 07/10/14 11:05
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/11/14 13:39	1
Ethylbenzene	ND		0.50		ug/L			07/11/14 13:39	1
Toluene	ND		0.50		ug/L			07/11/14 13:39	1
Xylenes, Total	ND		1.0		ug/L			07/11/14 13:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/11/14 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*07/11/14 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*07/11/14 13:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/11/14 13:39*	*1*

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-2
Date Collected: 07/10/14 11:45
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4800		100	50	ug/L			07/11/14 14:08	200
Ethylbenzene	140		100	26	ug/L			07/11/14 14:08	200
Toluene	130		100	34	ug/L			07/11/14 14:08	200
Xylenes, Total	ND		200	98	ug/L			07/11/14 14:08	200
Gasoline Range Organics (GRO) -C5-C12	8800	J	10000	4200	ug/L			07/11/14 14:08	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*07/11/14 14:08*	*200*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*07/11/14 14:08*	*200*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/11/14 14:08*	*200*

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-4
Date Collected: 07/10/14 12:25
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2500		10		ug/L			07/11/14 14:38	20
Ethylbenzene	1800		10		ug/L			07/11/14 14:38	20
Toluene	950		10		ug/L			07/11/14 14:38	20
Xylenes, Total	6400		50		ug/L			07/14/14 16:01	50
Gasoline Range Organics (GRO) -C5-C12	25000		1000		ug/L			07/11/14 14:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*07/11/14 14:38*	*20*
4-Bromofluorobenzene	*103*		*67 - 130*		*07/14/14 16:01*	*50*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*		*07/11/14 14:38*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*07/14/14 16:01*	*50*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/11/14 14:38*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/14/14 16:01*	*50*

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-40
Date Collected: 07/10/14 12:40
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3100		50		ug/L			07/11/14 15:07	100
Ethylbenzene	2400		50		ug/L			07/11/14 15:07	100
Toluene	1100		50		ug/L			07/11/14 15:07	100
Xylenes, Total	6100		100		ug/L			07/11/14 15:07	100
Gasoline Range Organics (GRO) -C5-C12	32000		5000		ug/L			07/11/14 15:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*07/11/14 15:07*	*100*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*		*07/11/14 15:07*	*100*
Toluene-d8 (Surr)	*104*		*70 - 130*		*07/11/14 15:07*	*100*

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-1
Date Collected: 07/10/14 13:15
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/11/14 15:36	1
Ethylbenzene	ND		0.50		ug/L			07/11/14 15:36	1
Toluene	ND		0.50		ug/L			07/11/14 15:36	1
Xylenes, Total	ND		1.0		ug/L			07/11/14 15:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/11/14 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*07/11/14 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*		*07/11/14 15:36*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*07/11/14 15:36*	*1*

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: TAL-SF-TB
Date Collected: 07/10/14 00:00
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/11/14 11:43	1
Ethylbenzene	ND		0.50		ug/L			07/11/14 11:43	1
Toluene	ND		0.50		ug/L			07/11/14 11:43	1
Xylenes, Total	ND		1.0		ug/L			07/11/14 11:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/11/14 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*07/11/14 11:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*07/11/14 11:43*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*07/11/14 11:43*	*1*

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

Lab Sample ID: MB 720-162818/4
Matrix: Water
Analysis Batch: 162818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			07/11/14 08:47	1
Ethylbenzene	ND		0.50	0.13	ug/L			07/11/14 08:47	1
Toluene	ND		0.50	0.17	ug/L			07/11/14 08:47	1
Xylenes, Total	ND		1.0	0.49	ug/L			07/11/14 08:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		50	21	ug/L			07/11/14 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*07/11/14 08:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*		*07/11/14 08:47*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/11/14 08:47*	*1*

Lab Sample ID: LCS 720-162818/5
Matrix: Water
Analysis Batch: 162818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	27.0		ug/L		108	79 - 130		
Ethylbenzene			25.0	26.1		ug/L		104	80 - 120		
Toluene			25.0	25.5		ug/L		102	78 - 120		
m-Xylene & p-Xylene			25.0	26.0		ug/L		104	70 - 142		
o-Xylene			25.0	26.1		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 720-162818/7
Matrix: Water
Analysis Batch: 162818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	544		ug/L		109	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-162818/6
Matrix: Water
Analysis Batch: 162818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	26.7		ug/L		107	79 - 130	1	20
Ethylbenzene			25.0	25.8		ug/L		103	80 - 120	1	20

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

Lab Sample ID: LCSD 720-162818/6
Matrix: Water
Analysis Batch: 162818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	25.6		ug/L		102	78 - 120	0	20
m-Xylene & p-Xylene			25.0	25.7		ug/L		103	70 - 142	1	20
o-Xylene			25.0	25.5		ug/L		102	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-162818/8
Matrix: Water
Analysis Batch: 162818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	541		ug/L		108	62 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-58574-1 MS
Matrix: Water
Analysis Batch: 162818

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	25.8		ug/L		103	60 - 140
Ethylbenzene	ND		25.0	24.8		ug/L		99	60 - 140
Toluene	ND		25.0	24.2		ug/L		97	60 - 140
m-Xylene & p-Xylene	ND		25.0	24.7		ug/L		99	60 - 140
o-Xylene	ND		25.0	25.0		ug/L		100	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 720-58574-1 MSD
Matrix: Water
Analysis Batch: 162818

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	25.4		ug/L		102	60 - 140	2	20
Ethylbenzene	ND		25.0	24.1		ug/L		96	60 - 140	3	20
Toluene	ND		25.0	24.0		ug/L		96	60 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	24.3		ug/L		97	60 - 140	2	20
o-Xylene	ND		25.0	24.4		ug/L		98	60 - 140	3	20

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

Lab Sample ID: 720-58574-1 MSD
Matrix: Water
Analysis Batch: 162818

Client Sample ID: MW-5
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 720-162907/5
Matrix: Water
Analysis Batch: 162907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/14/14 09:20	1
Ethylbenzene	ND		0.50		ug/L			07/14/14 09:20	1
Toluene	ND		0.50		ug/L			07/14/14 09:20	1
Xylenes, Total	ND		1.0		ug/L			07/14/14 09:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/14/14 09:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*97*		*67 - 130*		*07/14/14 09:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*07/14/14 09:20*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*07/14/14 09:20*	*1*

Lab Sample ID: LCS 720-162907/6
Matrix: Water
Analysis Batch: 162907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	28.5		ug/L		114	79 - 130
Ethylbenzene	25.0	25.3		ug/L		101	80 - 120
Toluene	25.0	24.2		ug/L		97	78 - 120
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 142
o-Xylene	25.0	25.1		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCS 720-162907/8
Matrix: Water
Analysis Batch: 162907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	594		ug/L		119	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*104*		*67 - 130*

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

Lab Sample ID: LCS 720-162907/8
Matrix: Water
Analysis Batch: 162907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 720-162907/7
Matrix: Water
Analysis Batch: 162907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	28.0		ug/L		112	79 - 130	2	20
Ethylbenzene	25.0	25.3		ug/L		101	80 - 120	0	20
Toluene	25.0	24.4		ug/L		98	78 - 120	1	20
m-Xylene & p-Xylene	25.0	24.9		ug/L		100	70 - 142	0	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 720-162907/9
Matrix: Water
Analysis Batch: 162907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	588		ug/L		118	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

GC/MS VOA

Analysis Batch: 162818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58574-1	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-1 MS	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-1 MSD	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-2	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-3	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-4	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-5	MW-40	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-6	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-58574-7	TAL-SF-TB	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-162818/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-162818/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-162818/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-162818/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-162818/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 162907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58574-4	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-162907/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-162907/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-162907/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-162907/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-162907/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: MW-5
Lab Sample ID: 720-58574-1
Date Collected: 07/10/14 10:20
Matrix: Water
Date Received: 07/10/14 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	162818	07/11/14 13:10	PDR	TAL PLS

Client Sample ID: MW-3
Lab Sample ID: 720-58574-2
Date Collected: 07/10/14 11:05
Matrix: Water
Date Received: 07/10/14 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	162818	07/11/14 13:39	PDR	TAL PLS

Client Sample ID: MW-2
Lab Sample ID: 720-58574-3
Date Collected: 07/10/14 11:45
Matrix: Water
Date Received: 07/10/14 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		200	162818	07/11/14 14:08	PDR	TAL PLS

Client Sample ID: MW-4
Lab Sample ID: 720-58574-4
Date Collected: 07/10/14 12:25
Matrix: Water
Date Received: 07/10/14 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		20	162818	07/11/14 14:38	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		50	162907	07/14/14 16:01	PDR	TAL PLS

Client Sample ID: MW-40
Lab Sample ID: 720-58574-5
Date Collected: 07/10/14 12:40
Matrix: Water
Date Received: 07/10/14 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	162818	07/11/14 15:07	PDR	TAL PLS

Client Sample ID: MW-1
Lab Sample ID: 720-58574-6
Date Collected: 07/10/14 13:15
Matrix: Water
Date Received: 07/10/14 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	162818	07/11/14 15:36	PDR	TAL PLS

Lab Chronicle

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Client Sample ID: TAL-SF-TB
Date Collected: 07/10/14 00:00
Date Received: 07/10/14 18:50

Lab Sample ID: 720-58574-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	162818	07/11/14 11:43	PDR	TAL PLS

Laboratory References:

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

Certification Summary

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: URS Corporation
Project/Site: 3884 MLK/Oakland

TestAmerica Job ID: 720-58574-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58574-1	MW-5	Water	07/10/14 10:20	07/10/14 18:50
720-58574-2	MW-3	Water	07/10/14 11:05	07/10/14 18:50
720-58574-3	MW-2	Water	07/10/14 11:45	07/10/14 18:50
720-58574-4	MW-4	Water	07/10/14 12:25	07/10/14 18:50
720-58574-5	MW-40	Water	07/10/14 12:40	07/10/14 18:50
720-58574-6	MW-1	Water	07/10/14 13:15	07/10/14 18:50
720-58574-7	TAL-SF-TB	Water	07/10/14 00:00	07/10/14 18:50

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-58574

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 154897

Date 7/10/2014 Page 1 of 1

7/22/2014

Report To

Attn: Kali Futnani
Company: URS
Address: One Montgomery St Suite 900 SF
Email:
Bill To: 28068161 URS PO #
Sampled By: Kali Futnani
Attn:
Phone: 415-860-8546

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
MW-5	7/10	1020	water	HCL			X																	MS/MSD	
MW-3		1105	water	HCL			X																		
MW-2		1145	water	HCL			X																		
MW-4		1225	water	HCL			X																		
MW-4D		1240	water	HCL			X																		
MW-1		1315	water	HCL			X																		
TAL-SF TB		-	water	HCL			X																		

720-58574 Chain of Custody

Page 23 of 24

Project Info.

Project Name/ #: 3884 MLK Oakland Cotter & Doyle LLC
PO#: 28068161
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 24
Head Space:
Temp: 1.3°c

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	1409	1850	
Printed Name / Date	Kali Futnani 7/10/14	Ed Martinez 7.10.14	
Company	URS Corp	TA	

	1) Received by:	2) Received by:	3) Received by:
Signature / Time	1409	1850	
Printed Name / Date	Ed Martinez 7/10/14	J Gonzalez 7/10/14	
Company	Test America	TA	

Rev.10/20

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 720-58574-1

Login Number: 58574

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

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