



Apex Companies, LLC  
944 McCourtney Road, Suite H • Grass Valley, CA 95949  
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December 5, 2016

**RECEIVED**

By Alameda County Environmental Health 10:24 am, Dec 15, 2016

Ms. Kit Soo, P.G.  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Subject: **SECOND 2016 SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING, PLUME DELINEATION, AND DATA COLLECTION FOR REMEDIAL EVALUATION REPORT  
Former Francis Plating Site  
785 7th Street, Oakland, California**

Dear Ms. Soo:

Enclosed please find the Second 2016 Semi-Annual Groundwater Monitoring and Sampling Report for the Former Francis Plating Site.

Perjury Statement:

*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.*

If you have any questions or comments regarding the Report, please feel free to Greg McIver at (530) 272-4200.

Sincerely,



Tom McCoy  
Property Owner

Enclosure



The Source Group, Inc. is a division  
of Apex Companies, LLC

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

**SECOND 2016 SEMI-ANNUAL GROUNDWATER  
MONITORING AND SAMPLING REPORT**

**Former Francis Plating Site  
789 7th Street, Oakland, California**

06-FP-001

Prepared For:

Brush Street Group, LLC  
1155 Third Street, Suite 230  
Oakland, California 94607

Prepared By:



944 McCourtney Rd, Suite H  
Grass Valley, California 95945

December 5, 2016

Prepared By:

A handwritten signature in blue ink, appearing to read 'Adam Brown'.

Adam Brown  
Project Scientist



Reviewed By:

A handwritten signature in black ink, appearing to read 'Jing Heisler'.

Jing Heisler  
Senior Geologist

A handwritten signature in black ink, appearing to read 'Greg McIver'.

Greg McIver  
Principal Scientist

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## CERTIFICATION

All hydrogeologic and geologic information in this document regarding the 789 7<sup>th</sup> Street Site have been prepared under the supervision of and reviewed by the certified professional whose signature appears below.



---

Jing Heisler, P.G.  
Professional Geologist  
**The Source Group, Inc.**  
A division of APEX Companies, LLC

## 1.0 INTRODUCTION

On behalf of The Brush Street Group, LLC, (BSG), The Source Group, Inc. a division of Apex Companies, LLC., (SGI/Apex) has prepared this *Second 2016 Semi-Annual Groundwater Monitoring and Sampling Report* (Report) for the Former Francis Plating Frog Pond Site located at 789 7<sup>th</sup> Street in Oakland, California (Site, Figures 1 through 3). The report has been prepared to satisfy Alameda County Department of Environmental Health (ACDEH) semi-annual report request (Appendix A) and detail groundwater conditions beneath the Site during the third quarter 2016 (3Q16) groundwater monitoring and sampling event.

### 1.1 Report Organization

The remainder of this Report is organized into the following sections:

#### Section 2.0: Site Background

This section presents a summary of the Site setting and a brief description of previous Site investigations.

#### Section 3.0: Groundwater Monitoring and Sampling Activities

This section presents a summary third quarter 2016 monitoring and sampling activities.

#### Section 4.0: Summary and Recommendations

This section provides a summary of monitoring and sampling activities and recommendations.

#### Section 5.0: Limitations

This section provides SGI/Apex limitations as they relate to use of this Report.

#### Section 6.0: References

This section provides references cited in this Report.

## 2.0 SITE BACKGROUND

This section provides background information, subsurface conditions, and previous remediation activities at the Site.

### 2.1 Site Location and Description

The Site is located at 789 7<sup>th</sup> Street, in a light industrial area of Oakland. The Site is bounded by 7<sup>th</sup> Street to the north, Parcel 2 and Brush Street to the east, a Shell service station to the west, and a commercial building and lot to the south (Figure 2).

The Site is vacant and paved, and is used for parking. An approximately 2,227-square-foot building occupies the northeast corner of the adjacent Parcel 2. The property is covered by concrete or asphalt, with the exception of an exposed strip of soil along the western property line. Property details and surrounding area is shown on Figure 1 through 3.

### 2.2 Site Operational History

A review of Sanborn Fire Insurance maps by BASELINE Environmental Consulting (BASELINE) identified the Site use in the late 1940s and early 1950s as an auto and truck sales and service shop (BASELINE, 2005). The Site was operated as a plating facility from approximately 1957 to 1998. A building occupied the western portion (Parcel 1) of the Site from the late 1940s until it was destroyed by fire in 1992. The building currently on the adjacent parcel (Parcel 2) was constructed in 1970. Plating operations were conducted in both the former and current buildings on the two parcels.

In 1998, the property was found abandoned with chemicals and equipment remaining on Site. As part of an emergency response action, the U.S. Environmental Protection Agency (USEPA) removed the abandoned chemicals and equipment, and excavated shallow soil in areas without asphalt or concrete surfaces. In 2003, the current owner, The Seventh Street Group, acquired the property.

### 2.3 Hydrogeologic Setting

Past investigations indicate that the lithology is consistent across the Site. Soil from the surface to 3 to 5 feet below ground surface (bgs) consists of silty sand/sand fill with some brick and concrete debris. Very fine- to fine-grained sands (Merritt Sands) of the San Antonio Formation underlie the fill and extend to approximately 60 feet bgs (BASELINE, 2010). The Merritt Sands are underlain by plastic clay (Old Bay Mud).

Regional groundwater flow direction in the San Antonio Formation is southwesterly toward the Oakland Inner Harbor, located approximately 2,300 feet south of the Site. Based on groundwater monitoring conducted by BASELINE in 2003, 2005, and 2010, the depth to the shallow unconfined groundwater at the Site has ranged from approximately 12 to 16 feet bgs. Groundwater monitoring performed by BASELINE in 2010, and groundwater monitoring reports from the adjacent Shell Service Station, indicate that the local shallow unconfined groundwater flows in a south/southwesterly direction (BASELINE, 2010; CRA, 2009).

## 2.4 Summary of Remedial Actions and Current Environmental Conditions

The USEPA response action, conducted from 1998 through 2000, involved characterization of stored liquids, sludge, and sediments contained in tanks, pits, and ponds, all located above the concrete pavement. All of these materials were subsequently removed from the Site, and soil samples were collected and analyzed for selected metals and total cyanide (BASELINE, 2005).

Surface soils were removed as part of the emergency response action in an attempt to remove surface soil containing cadmium, chromium, nickel, and lead concentrations above USEPA Industrial Preliminary Remedial Goals. During the removal actions, shallow soil was excavated and removed from select areas.

Numerous investigations between 2000 and 2010 have identified metals, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and petroleum hydrocarbons in soil, groundwater, and/or soil vapor samples. Compounds detected in Site soil, groundwater, soil vapor and indoor air include:

- Lead, nickel, zinc, cadmium, total chromium, hexavalent chromium (Cr-VI), copper, antimony, PAHs, and cyanide have been detected in one or more soil samples at concentrations exceeding environmental screening levels (ESLs) established by the California Regional Water Quality Control Board – San Francisco Bay Region (CRWQCB) for land uses where groundwater is a drinking water resource;
- Dissolved total chromium, Cr-VI, cobalt, copper, lead, mercury, nickel, silver, thallium, vanadium, total petroleum hydrocarbons as diesel (TPHd), cis-1,2-dichloroethene (cis-1,2-DCE) and trichloroethene (TCE) have been detected in one or more groundwater samples at concentrations exceeding residential or commercial ESLs; and
- TCE has been detected in one or more shallow soil gas samples at concentrations exceeding ESLs.

Results of a 2006 investigation suggested that a subsurface containment vault on the southwestern portion of the Site referred to as the "Frog Pond," was a significant source of the subsurface contamination at the Site. As a result, the Frog Pond was removed in two phases, beginning in May 2007, and completed in December 2007. The Frog Pond removal activities are described in a BASELINE report dated February 2008 (BASELINE, 2008).

In April, 2010, BASELINE completed a soil and groundwater investigation which concluded groundwater impacts were confined to the Merritt Sand and chemical of primary concern for groundwater was Cr-VI detected in shallow and deep wells extending 120 feet down gradient of the Site. In addition, select dissolved metals detected in groundwater exceeded ESLs, no VOCs were reported in groundwater exceeding ESLs. Complete results are presented in BASELINE's *Phase IV Soil and Groundwater Investigation*, dated May 2010, (BASELINE, 2010).

During the first quarter 2016 monitoring and sampling activities on- and off-Site soil borings were advanced for the collection of soil samples, grab groundwater and remedial evaluation parameters.



Cr-VI was not detected above respective ESLs in shallow source area soil. Results indicate impacted shallow soil is limited to the former Frog Pond area. The lateral extent of CrVI in groundwater extends approximately 160 feet down-gradient of the Site. Site lithology and remedial evaluation parameters indicate silts and clays of low permeability at the Site. Details regarding first quarter monitoring and sampling activities and delineation/remedial evaluation are presented in SGI/Apex's *First 2016 Semi-Annual Groundwater Monitoring and Sampling, Plume Delineation, and Data Collection for Remedial Evaluation Report*, dated August 3, 2016.

During the most recent third quarter 2016 (3Q16) sampling event Cr-VI and TCE were detected at maximum concentrations of 30,000 µg/L and 140 µg/L in wells MW-FP5 and MW-FP4A, respectively. Groundwater flow direction was observed to the south/southwest gradient of 0.004 feet per foot (ft/ft). Groundwater concentrations and flow direction/gradient were generally consistent with historical conditions. Furthermore, groundwater measurements, including analytical results and groundwater parameters continue to indicate an aerobic subsurface environment. 3Q16 monitoring and sampling activities are presented in the following Sections.

### **3.0 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES**

#### **3.1 Groundwater Monitoring**

Groundwater levels measured on September 14, 2016, in seven shallow screened wells (MW-FP1, MW-FP2, MW-FP3, MW-FP4A, MW-FP5, MW-FP6 and MW-9) and two deeper screened on-Site wells (MW-FP4B and MW-FP7B). Prior to collecting groundwater measurements well caps were removed to allow for groundwater equilibration. Groundwater levels were gauged from the top of the well casings using an electronic water level indicator graduated to 0.01-foot. Well locations are presented on Figure 2 and 3.

#### **3.2 Groundwater Sampling**

Groundwater samples were collected on September 14, 2016, by Confluence Environmental, Inc. of Sacramento, California using low-flow techniques via peristaltic pump and dedicated tubing. The inlet of dedicated tubing was placed at the middle of the screen interval. During well purging, water quality parameters [dissolved oxygen (DO), oxidation reduction potential (ORP), temperature, electrical conductivity, and pH] were measured and recorded to ensure the groundwater samples were representative of aquifer conditions. Samples were transferred directly into laboratory-supplied containers and placed on ice for transport to Curtis & Tompkins Laboratory of Berkeley, California under chain-of-custody control. All groundwater samples collected during the 3Q16 event were analyzed for VOCs by EPA Method 8260B, dissolved metals (CAM 17 Metals) by EPA 6010B/7470A (field filtered with 0.45-micron filter), and total and dissolved CrVI by EPA Method 7196A (field filtered with 0.45 micron filter for dissolved Cr-VI).

#### **3.3 Decontamination/Waste**

All non-dedicated equipment was triple rinsed using non-phosphate Liquinox and high pressure steam between sample locations. Purge water was stored in DOT approved 55-gallon drums on-Site pending disposal.

#### **3.4 Monitoring and Sampling Results**

3Q16 groundwater monitoring and sampling was conducted on September 14, 2016. Results are presented in the following sections.

##### **3.4.1 Groundwater Elevations**

Depth to water measurements ranged from 13.05 to 17.29 feet below top of casing (btoc) in wells screened in shallow zone; and from 12.63 to 17.78 feet btoc in wells screened in deeper zone. Corresponding groundwater elevations ranged from 7.92 to 8.74 feet above mean sea level (amsl) in wells screened in shallow zone; and from 7.66 to 7.88 feet amsl in wells screened in deeper zone. A review of elevation data and the potentiometric surface map (Figure 4) indicates a south southwest gradient in shallow groundwater at rate of approximately 0.004 ft/ft, similar to previous findings. A

potentiometric surface map for 3Q16 was generated from the groundwater elevation data and is presented as Figure 4. Groundwater elevation measurements are presented in Table 1.

The vertical potentiometric head difference between wells pairs MW-FP4A/4B and MW-9/MW-FP7B presented in Table 2. A review of the data indicates the vertical hydraulic gradients are slightly downward at 0.02 ft/ft in wells MW-FP4A/4B and flat at 0.00 ft/ft in wells MW-9/MW-FP7B. Field forms are included in Appendix B.

### 3.4.2 Groundwater Analytical Results

A summary of dissolved metals and Cr-VI detected in shallow and deep zone monitoring wells are provided in the table below:

| Analyte        | Shallow Zone        |  |  | Deep Zone           |  |  |
|----------------|---------------------|--|--|---------------------|--|--|
|                | Detection Frequency | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location | Detection Frequency | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location |
| Barium         | 7 / 7               | 33<br>MW-FP1                                     | 160<br>MW-9                                      | 2 / 2               | 29<br>MW-FP4B                                    | 31<br>MW-FP7B                                    |
| Total Chromium | 7 / 7               | 8.0<br>MW-FP1                                    | 20,000<br>MW-FP5                                 | 2 / 2               | 10<br>MW-FP4B                                    | 31<br>MW-FP7B                                    |
| Cr-VI          | 7 / 7               | 7.1<br>MW-FP1                                    | 30,000<br>MW-FP5                                 | 2 / 2               | 9.6<br>MW-FP4B                                   | 21<br>MW-FP7B                                    |
| Cobalt         | 1 / 7               | 7.1<br>MW-FP4A                                   | 7.1<br>MW-FP4A                                   | 0 / 2               | --   | --   |
| Copper         | 1 / 7               | 20<br>MW-FP4A                                    | 20<br>MW-FP4A                                    | 0 / 2               | --   | --   |
| Molybdenum     | 1 / 7               | 14<br>MW-FP4A                                    | 14<br>MW-FP4A                                    | 0 / 2               | --   | --   |
| Nickel         | 6 / 7               | 11<br>MW-FP1                                     | 130<br>MW-FP4A                                   | 0 / 2               | --   | --   |
| Vanadium       | 0 / 7               | --   | --   | 2 / 2               | 9.6<br>MW-FP4B                                   | 12<br>MW-FP7B                                    |
| Zinc           | 2 / 7               | 28<br>MW-FP4A                                    | 110<br>MW-FP4A                                   | 1 / 2               | 300<br>MW-FP4B                                   | 300<br>MW-FP4B                                   |

**Note:**

-- = Not Applicable

Dissolved total chromium, Cr-VI, cobalt, copper, nickel, and zinc have been detected in one or more groundwater samples at concentrations exceeding ESLs. Results indicate that Cr-VI concentrations remain elevated and extend approximately 160 feet south of the Site to 6<sup>th</sup> Street. Cr-VI concentrations were generally detected within historical range in monitoring wells. Results are summarized in Table 3 and Cr-VI results are displayed on Figure 5. Laboratory analytical reports are included in Appendix C.

A summary of VOC results in shallow zone monitoring wells is provided in the table below:

| Analyte        | Detection Frequency | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location |
|----------------|---------------------|--|--|
| PCE            | 0 / 7               | --   | --   |
| TCE            | 4 / 7               | 2.7<br>MW-FP5                                    | 140<br>MW-FP4A                                   |
| cis-1,2-DCE    | 2 / 7               | 13<br>MW-9                                       | 170<br>MW-FP4A                                   |
| 1,1-DCE        | 1 / 7               | 1.8<br>MW-FP4A                                   | 1.8<br>MW-FP4A                                   |
| Vinyl Chloride | 0 / 7               | --   | --   |

**Note:**

Results presented in µg/L.

PCE – tetrachloroethene

DCE - dichloroethene

-- = Not Applicable

TCE and cis-1,2-DCE have been detected in one or more groundwater samples at concentrations exceeding the environmental screening level maximum contaminant level. TCE was detected at a maximum concentration from on-Site monitoring well MW-FP4A at a concentration of 140 µg/L, immediately downgradient of the Former Frog Pond. TCE was detected at a lesser extent of 8.9 µg/L and 22 µg/L in monitoring wells MW-FP6 and MW-9, respectively, approximately 130 feet downgradient, south of the Site. VOCs were not detected above the laboratory reporting limit in deep zone monitoring wells with the exception of chloroform at a maximum concentration of 10 µg/L in well MW-FP7B. VOC results are summarized in Table 4 and a TCE chemical concentration map is included as Figure 6. Laboratory analytical report is included in Appendix C.

**3.4.3 Groundwater Parameters**

Oxidation reduction potential (ORP) and dissolved oxygen (D.O.) parameters were measured in groundwater monitoring wells during the sampling event. Results were recorded positive and greater than 1 milligram per liter (mg/L) in all monitoring wells. Similar to previous sampling events the groundwater parameters measured during the 3Q16 sampling event indicate an aerobic groundwater environment.

## 4.0 SUMMARY AND RECOMMENDATIONS

A summary of investigation results is provided below:

- During the 3Q16 shallow groundwater beneath the Site flowed toward the south/southwest at a gradient of approximately 0.004 ft/ft, consistent with historical groundwater conditions;
- Groundwater parameters and results continue to indicate an aerobic subsurface groundwater environment;
- The maximum Cr-VI concentration in groundwater was detected in shallow zoned monitoring well MW-FP5 at 30,000 µg/L, located immediately downgradient of the Former Frog Pond;
- TCE was detected in 4 of 7 groundwater samples from shallow screened wells, three of which, located downgradient of the Former Frog Pond, (MW-FP4A, MW-FP6, and MW-9) were at concentrations greater than the ESL (5 µg/L) for protection of drinking water resources; and
- The defined Cr-VI plume in groundwater shown on Figure 5 extends to approximately 180 feet south of the Site.

On November 10, 2016 SGI/Apex submitted *Remedial Action Plan Meeting Preparation* letter correspondence to provide documents associated with a conceptual site model (CSM) and components of a feasibility study (FS) in order to evaluate remedial alternatives for the Site. The preparation of the aforementioned documents will be used for discussion purposes between SGI/Apex and ACDEH to develop a remedial action plan intended to protect human health and the environment and supplement the Site Cleanup Subaccount Program (SCAP) funding application. SGI/Apex is scheduled to prepare a comprehensive feasibility study following discussions with ACEHD and conduct the first semi-annual monitoring and sampling event during the first quarter 2017.

## 5.0 LIMITATIONS

This Report was prepared for the exclusive use of The Brush Street Group for the express purpose of complying with regulatory directives for environmental investigation, in accordance with the scope of work, methodologies, and assumptions outlined in SGI's contract with The Brush Street Group and as applicable to the location of the proposed investigation. Any re-use of this work product, in whole or in part, for a different purpose, or by others must be approved by SGI and The Brush Street Group in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI. To the extent that this Report is based on information provided to SGI by third parties, including The Brush Street Group, their direct-contractors, previous workers, and other stakeholders, SGI cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information. SGI has exercised professional judgment to collect and present a scope of work and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of this Report preparation, current regulatory requirements, and any specified assumptions. Findings or conclusions presented in this Report are intended to be taken in their entirety to assist The Brush Street Group and regulatory personnel in applying their own professional judgment in making decisions related to the property. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented scope of work and any conclusions presented. No warranty or guarantee, whether expressed or implied, is made with respect to the data, observations, recommendations, and conclusions.

## 6.0 REFERENCES


- BASELINE Environmental Consulting (BASELINE). 2005. *Site History and Data Summary Report, 785 7<sup>th</sup> Street, Oakland, California*. January 10.
- BASELINE. 2008. *Documentation of Frog Pond Removal Activities, 751-785 Seventh Street, Oakland, California*. February 29.
- BASELINE. 2010. *Phase IV Soil and Groundwater Investigation, 751-785 Seventh Street, Oakland, California*. May 28.
- Conestoga-Rovers & Associates (CRA). 2009. *Groundwater Monitoring Report – Third Quarter 2009, Shell-Branded Service Station, 601 Market Street, Oakland, California*. October 28.
- The Source Group, Inc. (SGI), 2015. *Revised Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Work Plan*. November 20.
- SGI 2016. *First 2016 Semi-Annual Groundwater Monitoring and Sampling, Plume Delineation, and Data Collection for Remedial Evaluation Report*. September 29.

## FIGURES





**SITE**

**LEGEND**  
 Site Location

**REFERENCE LOCATION**

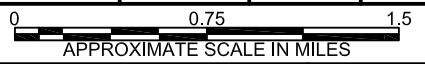


Map Source:  
 USGS 7.5 Minute  
 Topographic Quadrangle Map,  
 Oakland West, CA - 1993, Photorevised 1997

**SITE LOCATION MAP**

FORMER FRANCIS PLATING  
 789 SEVENTH STREET  
 OAKLAND, CALIFORNIA

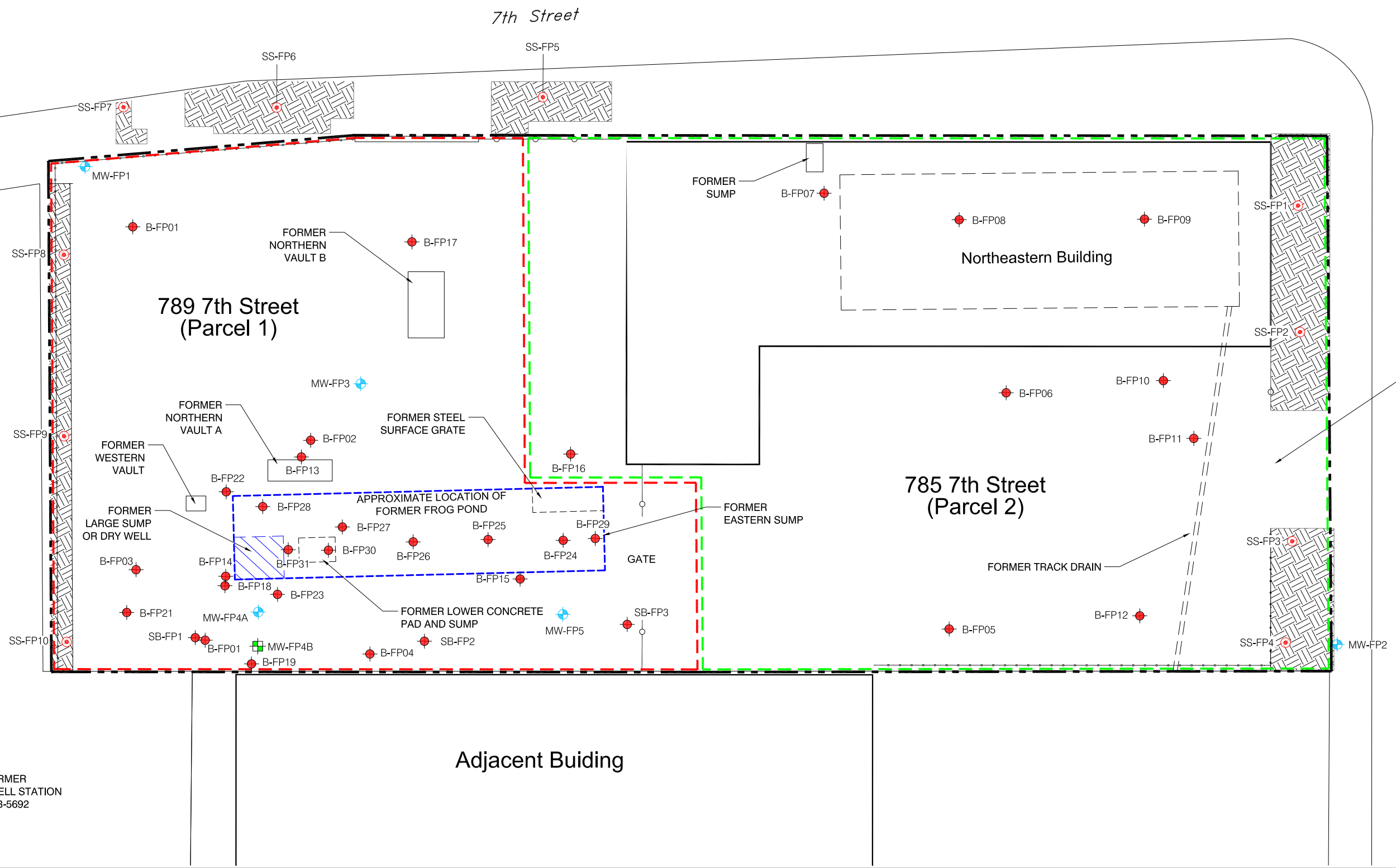
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| 01-FP-004   | 05/05/2016 | CM        | GM       |



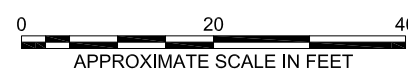
944 McCOURTNEY ROAD SUITE H  
 GRASS VALLEY, CALIFORNIA 95949



**FIGURE 1**



944 McCOURTNEY ROAD, SUITE H  
GRASS VALLEY, CALIFORNIA 95949



**LEGEND**

- MW-FP6 Shallow Groundwater Monitoring Well
- MW-FP7B Deep Groundwater Monitoring Well
- B-FP01 Soil Boring
- SS-FP5 Surface Soil Sample
- Fence
- 789 7th Street (Parcel 1)
- 785 7th Street (Parcel 2)

- Site Boundary
- Approximate Area Removed During Large Sump Removal 12/2007
- Exposed Soil Area

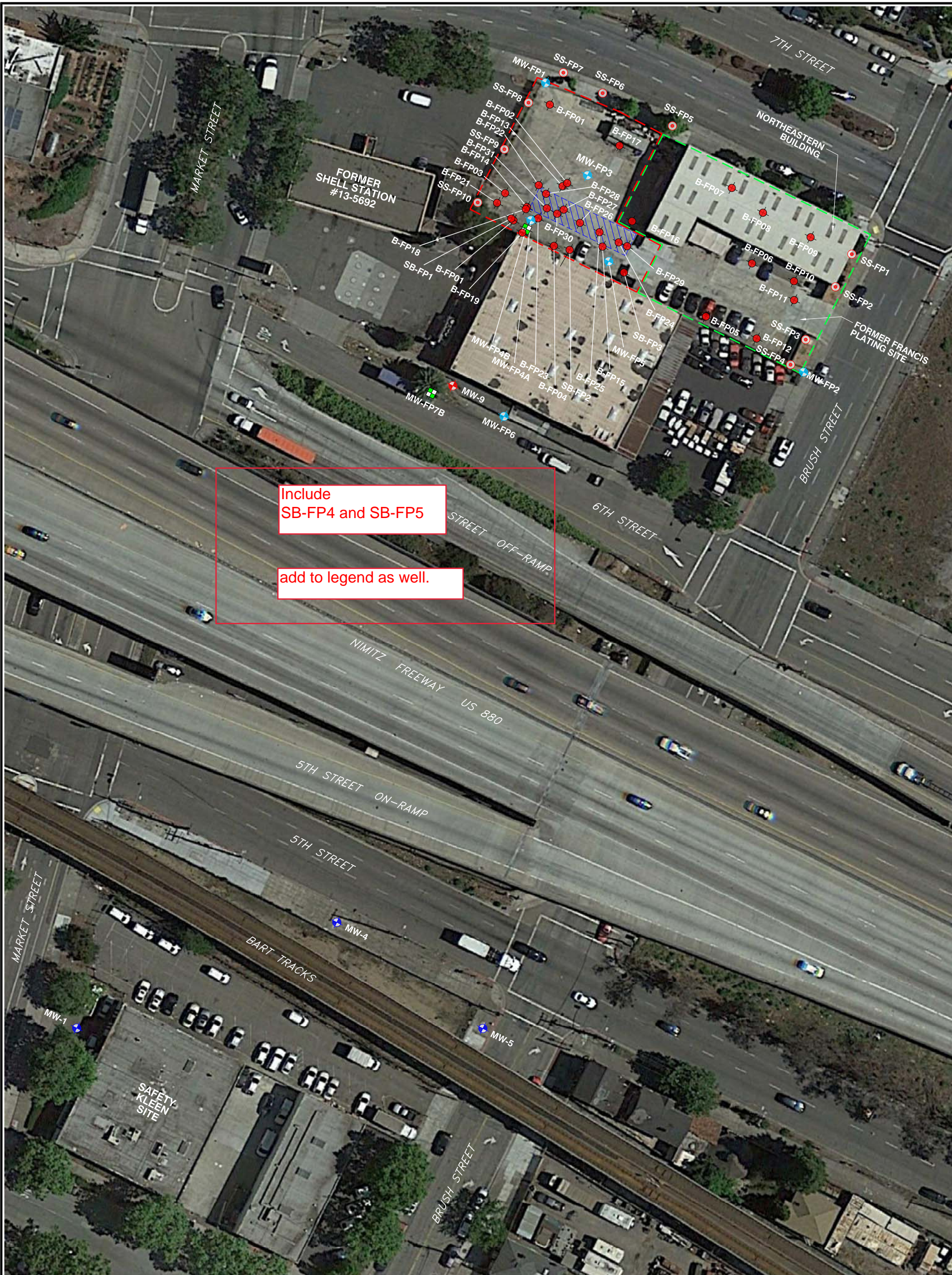
Notes:

Former Frog Pond and Vaults extended to approximately four feet bgs. Former large sump extended to approximately 20 feet bgs.

**SITE PLAN  
(On-Site)**

FORMER FRANCIS PLATING  
789 7TH STREET  
OAKLAND, CALIFORNIA

| PROJECT NO.: | DATE:      | DRAWN BY: | APP. BY: | FIGURE   |
|--------------|------------|-----------|----------|----------|
| 01-FP-004    | 11/10/2016 | CM        | GM       | <b>2</b> |



Include  
SB-FP4 and SB-FP5

add to legend as well.

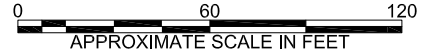
**LEGEND**

- MW-FP6 Shallow Groundwater Monitoring Well
- MW-9 Shell Shallow Groundwater Monitoring Well
- MW-FP7B Deep Groundwater Monitoring Well
- MW-5 Safety Kleen Site Shallow Monitoring Well
- B-FP01 Soil Boring
- SS-FP5 Surface Soil Sample
- 789 7th Street (Parcel 1)
- 785 7th Street (Parcel 2)
- Approximate Location of Former Frog Pond

**SITE VICINITY MAP**

FORMER FRANCIS PLATING  
789 SEVENTH STREET  
OAKLAND, CALIFORNIA

| PROJECT NO. | DATE       | DRAWN BY: | APP. BY: |
|-------------|------------|-----------|----------|
| 01-FP-004   | 11/21/2016 | CM        | GM       |

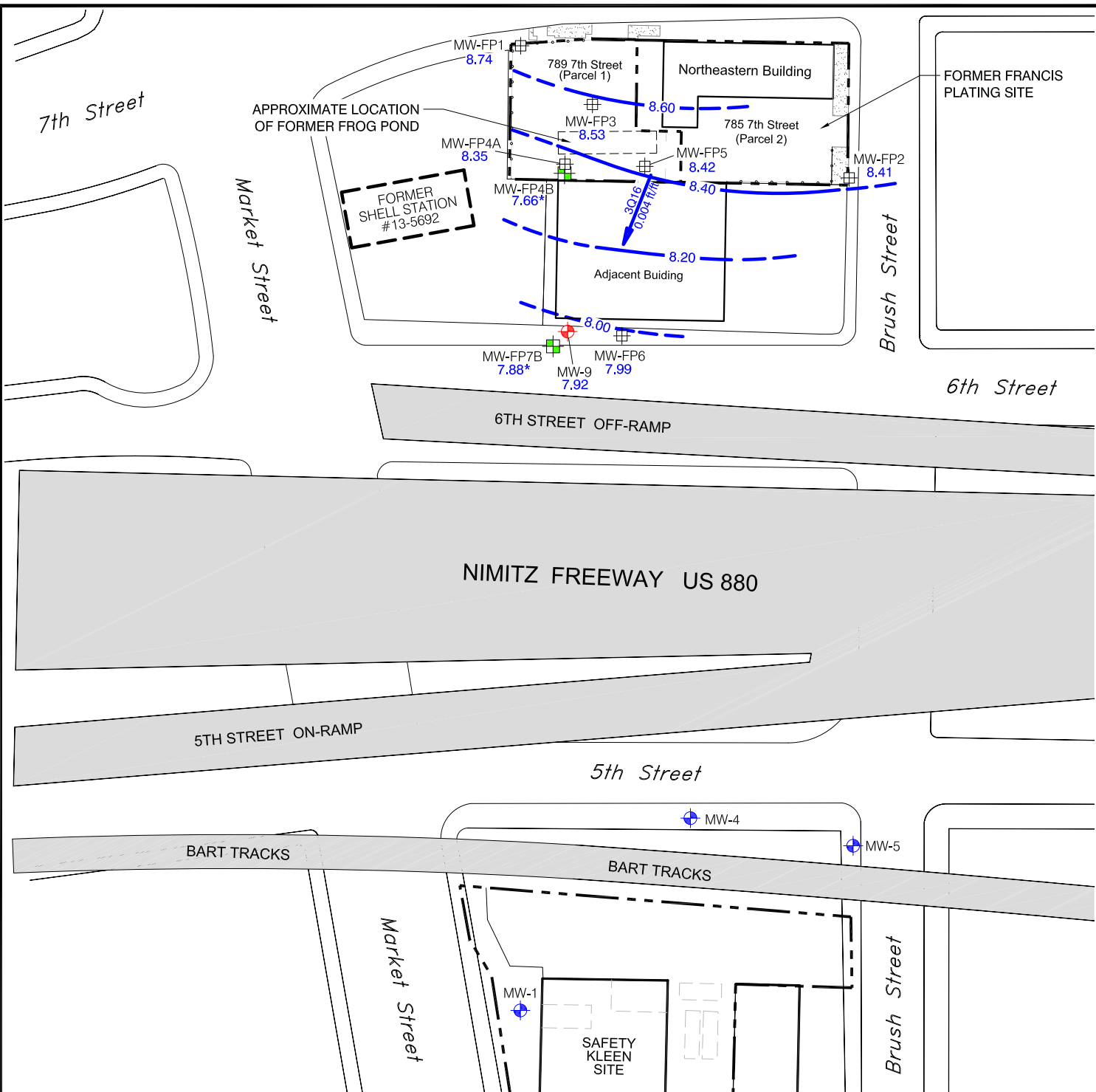


**SGI** THE SOURCE GROUP, Inc.  
environmental  
944 MCCOURTNEY ROAD SUITE H  
GRASS VALLEY, CALIFORNIA 95949



FIGURE  
3

C:\Drawing Files\The Source Group\Former Francis Plating Site 01-FP-006\Cirily GWM And Sampling Report\2016-03\Fig 4, GW Elev. Contour Map, Shallow, Screened Zone - Sep 2016 - 11/30/2016



**LEGEND**

- MW-FP6 Shallow Groundwater Monitoring Well
- MW-FP7B Deep Groundwater Monitoring Well
- MW-9 Shell Shallow Groundwater Monitoring Well
- MW-5 Safety Kleen Site Shallow Monitoring Well
- 9.25 Groundwater Elevation Contour in Feet Above Mean Sea Level (Dashed Where Inferred - September 14, 2016)
- 0.004 ft/ft Approximate Groundwater Flow Direction and Calculated Hydraulic Gradient
- Fence
- Site Boundary

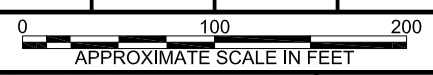
**Note:**

\* - Not Included in Contour (MW-FP4B and MW-FP7B are screened in a different zone)  
ft/ft - feet per foot

**GROUNDWATER ELEVATION  
CONTOUR MAP  
SHALLOW SCREENED ZONE  
SEPTEMBER 2016**

FORMER FRANCIS PLATING  
789 7TH STREET  
OAKLAND, CALIFORNIA

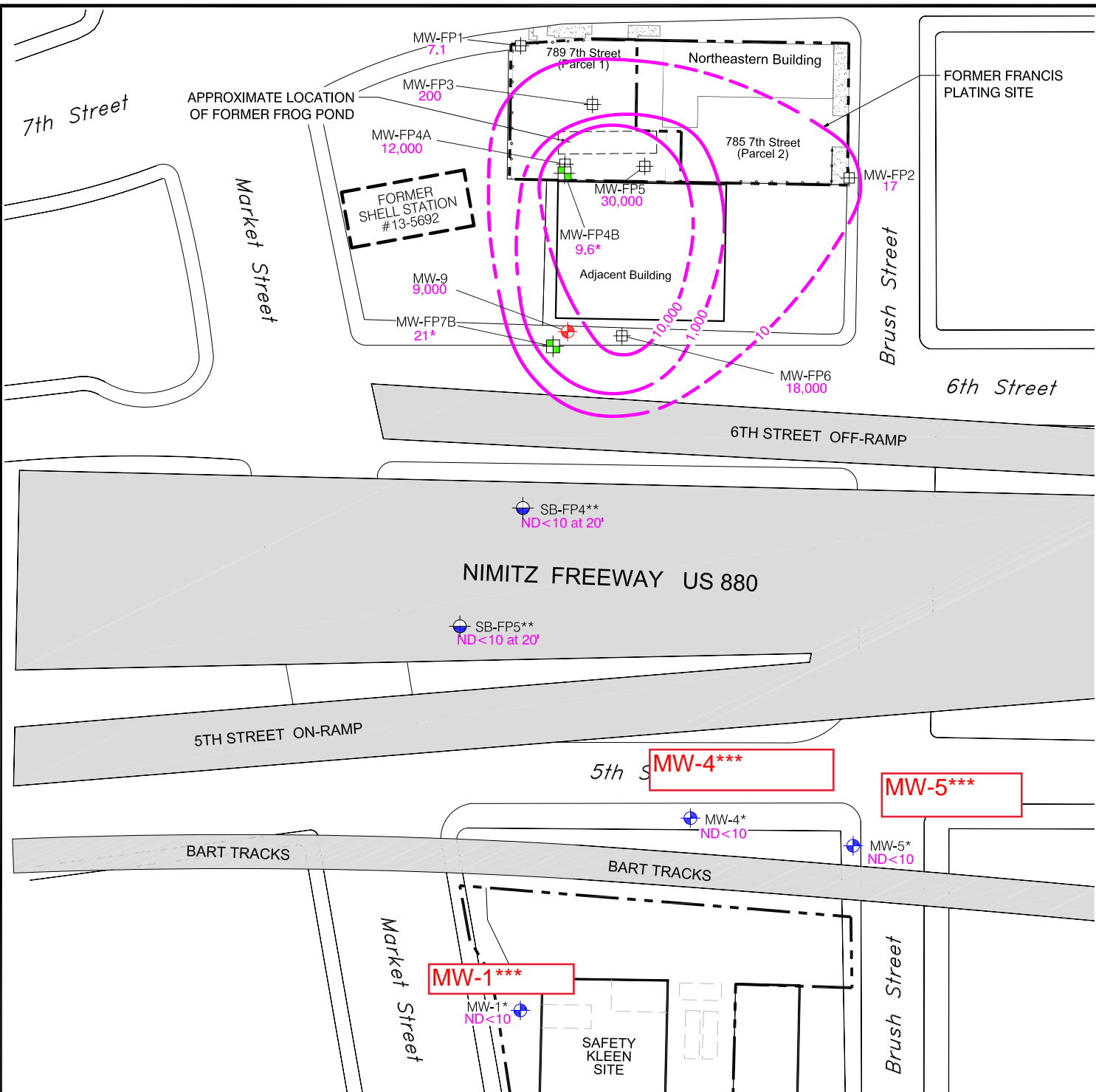
|              |            |           |          |
|--------------|------------|-----------|----------|
| PROJECT NO.: | DATE:      | DRAWN BY: | APP. BY: |
| 01-FP-004    | 11/30/2016 | CM        | GM       |



944 McCOURTNEY ROAD SUITE H  
GRASS VALLEY, CALIFORNIA 95949



**FIGURE  
4**



**LEGEND**

- SB-FP5 Grab Groundwater Sample Location
- MW-FP6 Shallow Groundwater Monitoring Well
- MW-FP7B Deep Groundwater Monitoring Well
- MW-9 Shell Shallow Groundwater Monitoring Well
- MW-5 Safety Kleen Site Shallow Monitoring Well
- 1,000 Hexavalent Chromium Concentration Contour in µg/L
- Fence
- Site Boundary

**\*\* - Grab Groundwater Sample - 1Q16**  
**\*\*\* - Well not sampled 3Q16**

**Notes:**

- \* - Not included in contour (MW-FP4B and MW-FP7B screened in different zone)
- ND<10 - Not Detected Above Laboratory Reporting Limit
- 10 - Hexavalent Chromium Concentration in Micrograms per Liter (µg/L)

**HEXAVALENT CHROMIUM CONCENTRATIONS IN SHALLOW GROUNDWATER ZONE**  
**SEPTEMBER 2016**

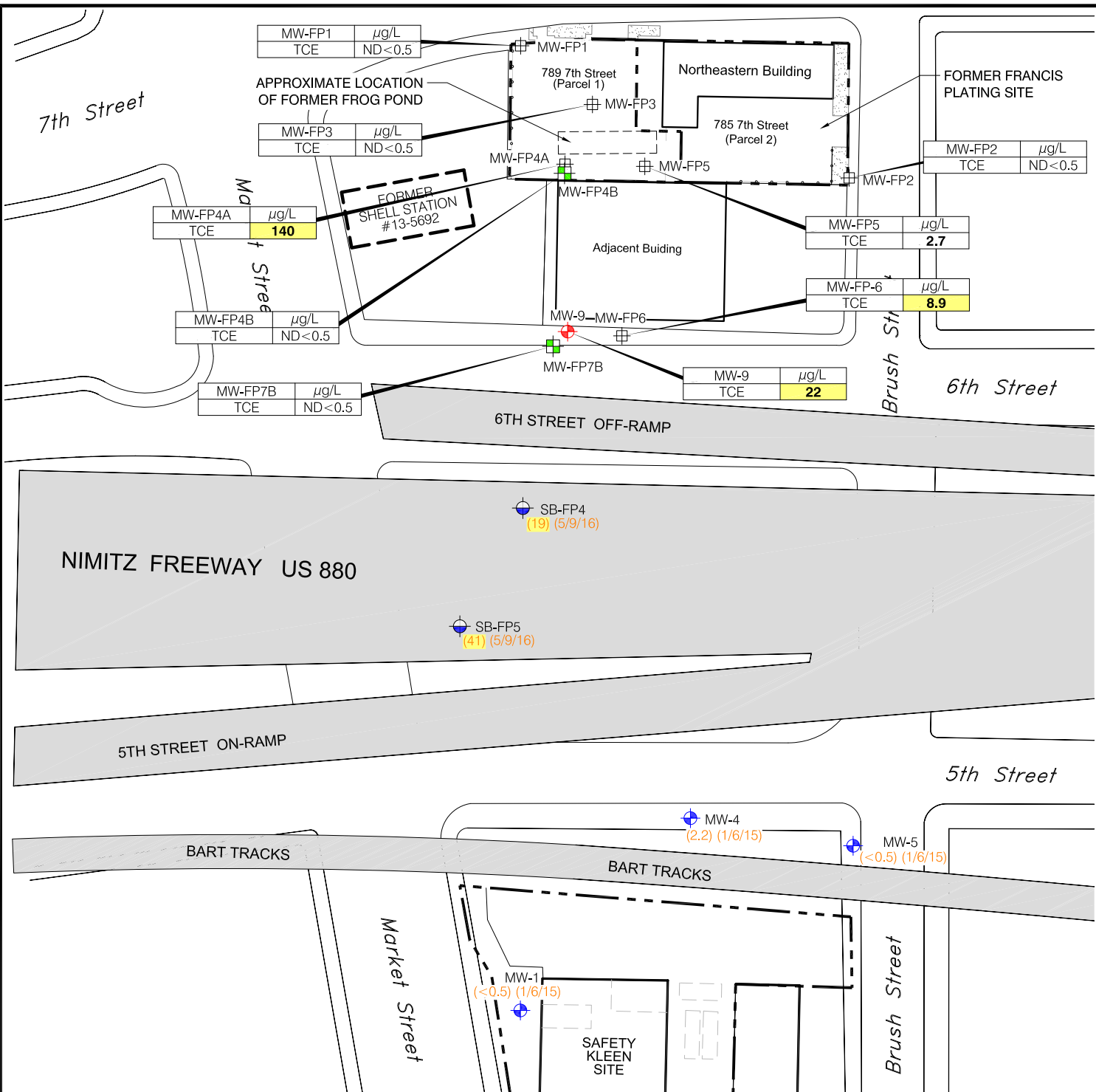
FORMER FRANCIS PLATING  
 789 7TH STREET  
 OAKLAND, CALIFORNIA

| PROJECT NO.: | DATE:      | DRAWN BY: | APP. BY: |
|--------------|------------|-----------|----------|
| 01-FP-004    | 11/30/2016 | CM        | GM       |

APPROXIMATE SCALE IN FEET

944 McCOURTNEY ROAD SUITE H  
 GRASS VALLEY, CALIFORNIA 95949

**FIGURE 5**



**LEGEND**

- SB-FP5 Grab Groundwater Sample Location
- MW-FP6 Shallow Groundwater Monitoring Well
- MW-FP7B Deep Groundwater Monitoring Well
- MW-9 Shell Shallow Groundwater Monitoring Well
- MW-5 Safety Kleen Site Shallow Monitoring Well
- Fence
- Site Boundary

Sample Location

|         |      |
|---------|------|
| MW-FP4A | µg/L |
| TCE     | 140  |

Analyte

Concentrations in Micrograms per Liter (µg/L) - Yellow Background Indicates Detections Above the Environmental Screening Level

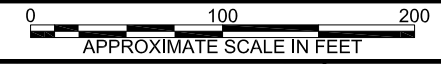
**NOTE:**

- TCE - Trichloroethene
- ND < 0.5 - Not Detected Above Laboratory Reporting Limit
- µg/L - Micrograms per Liter
- (< 0.5) - TCE data and date sampled

**TCE CONCENTRATIONS IN GROUNDWATER SEPTEMBER 2016**

FORMER FRANCIS PLATING  
789 7TH STREET  
OAKLAND, CALIFORNIA

| PROJECT NO.: | DATE:      | DRAWN BY: | APP. BY: |
|--------------|------------|-----------|----------|
| 01-FP-004    | 11/30/2016 | CM        | GM       |



944 McCOURTNEY ROAD SUITE H  
GRASS VALLEY, CALIFORNIA 95949

**FIGURE 6**

## TABLES

**Table 1**  
**Groundwater Level Measurements**  
Former Francis Plating  
Oakland, California

| Groundwater Zone Screened | Well ID | Sample Date | TOC <sup>1</sup> | Depth to Water (ft btoc) | GW Elevation (ft msl) |
|---------------------------|---------|-------------|------------------|--------------------------|-----------------------|
| ON-SITE                   |         |             |                  |                          |                       |
| Shallow                   | MW-FP1  | 1/5/2015    | 25.77            | 14.95                    | 10.82                 |
|                           |         | 8/25/2015   |                  | 16.94                    | 8.83                  |
|                           |         | 3/4/2016    |                  | 16.44                    | 9.33                  |
|                           |         | 9/14/2016   |                  | 17.03                    | 8.74                  |
|                           | MW-FP2  | 1/6/2015    | 23.81            | 13.04                    | 10.77                 |
|                           |         | 8/25/2015   |                  | 15.41                    | 8.40                  |
|                           |         | 3/4/2016    |                  | 14.69                    | 9.12                  |
|                           |         | 9/14/2016   |                  | 15.40                    | 8.41                  |
|                           | MW-FP3  | 1/5/2015    | 25.66            | 14.88                    | 10.78                 |
|                           |         | 8/25/2015   |                  | 16.96                    | 8.70                  |
|                           |         | 3/4/2016    |                  | 16.40                    | 9.26                  |
|                           |         | 9/14/2016   |                  | 17.13                    | 8.53                  |
|                           | MW-FP4A | 1/5/2015    | 25.64            | 15.11                    | 10.53                 |
|                           |         | 8/25/2015   |                  | 17.26                    | 8.38                  |
|                           |         | 3/4/2016    |                  | 16.49                    | 9.15                  |
|                           |         | 9/14/2016   |                  | 17.29                    | 8.35                  |
|                           | MW-FP5  | 1/5/2015    | 25.69            | 15.04                    | 10.65                 |
|                           |         | 8/25/2015   |                  | 17.27                    | 8.42                  |
|                           |         | 3/4/2016    |                  | 16.56                    | 9.13                  |
|                           |         | 9/14/2016   |                  | 17.27                    | 8.42                  |
|                           | MW-FP6  | 1/5/2015    | 21.04            | 10.98                    | 10.06                 |
|                           |         | 8/25/2015   |                  | 13.12                    | 7.92                  |
|                           |         | 3/4/2016    |                  | 12.36                    | 8.68                  |
|                           |         | 9/14/2016   |                  | 13.05                    | 7.99                  |
|                           | MW-9    | 9/1/2015    | 21.03            | 13.16                    | 7.87                  |
|                           |         | 3/4/2016    |                  | 12.38                    | 8.65                  |
|                           |         | 9/14/2016   |                  | 13.11                    | 7.92                  |
|                           | Deep    | MW-FP4B     | 1/5/2015         | 25.44                    | 15.12                 |
| 8/25/2015                 |         |             | 17.08            |                          | 8.36                  |
| 3/4/2016                  |         |             | 16.43            |                          | 9.01                  |
| 9/14/2016                 |         |             | 17.78            |                          | 7.66                  |
| MW-FP7B                   |         | 1/5/2015    | 20.51            | 10.53                    | 9.98                  |
|                           |         | 8/25/2015   |                  | 12.53                    | 7.98                  |
|                           |         | 3/4/2016    |                  | 11.88                    | 8.63                  |
|                           |         | 9/14/2016   |                  | 12.63                    | 7.88                  |
| OFF-SITE                  |         |             |                  |                          |                       |
| Shallow                   | MW-1    | 1/6/2015    | 7.99             | 5.55                     | 2.44                  |
|                           | MW-4    | 1/6/2015    | 10.32            | 7.23                     | 3.09                  |
|                           | MW-5    | 1/6/2015    | 10.28            | 7.08                     | 3.20                  |

**Notes:**

TOC = Top of casing (feet above mean sea level)

ft btoc = feet below top of casing

ft msl = feet above mean sea level

<sup>1</sup> = Elevation datum is North American Vertical Datum of 1988 (NAVD88).



**Table 2**  
**Vertical Groundwater Potentiometric Head Differences**  
Former Francis Plating  
Oakland, California

| Water Bearing Zone | Well Pairs | Vertical Distance Between Center of Screened Intervals (feet) | Groundwater Elevation (feet amsl) | Hydraulic Head Difference (feet) | Vertical Gradient (ft/ft) <sup>a</sup> | Vertical Gradient Direction |
|--------------------|------------|---|-----------------------------------|----------------------------------|--|-----------------------------|
|                    |            |   | Third Quarter 2016 (9/14/2016)    |                                  |  |                             |
| Shallow Zone       | MW-FP4A    | 32.5  | 8.35                              | 0.69                             | 0.02                                   | slightly downward           |
| Deep Zone          | MW-FP4B    |   | 7.66                              |                                  |  |                             |
| Shallow Zone       | MW-9       | 31.50   | 7.92                              | 0.04                             | 0.00                                   | flat                        |
| Deep Zone          | MW-FP7B    |   | 7.88                              |                                  |  |                             |

**Notes:**

ft/ft = feet per foot.

amsl = above mean sea level.

<sup>a</sup> Vertical gradient measurement based on mid-point of well screens.

**Table 3**  
**Groundwater Analytical Results - Dissolved Metals and Hexavalent Chromium**  
Former Francis Plating  
Oakland, California

| Groundwater Zone Screened | Well ID  | Sample Date | Chromium (Hexavalent) | Antimony | Arsenic | Barium | Chromium (Total) | Cobalt | Copper  | Mercury | Molybdenum | Nickel | Vanadium | Zinc   |
|---------------------------|----------|-------------|-----------------------|----------|---------|--------|------------------|--------|---------|---------|------------|--------|----------|--------|
|                           |          |             | (µg/L)                | (µg/L)   | (µg/L)  | (µg/L) | (µg/L)           | (µg/L) | (µg/L)  | (µg/L)  | (µg/L)     | (µg/L) | (µg/L)   | (µg/L) |
| <b>ON-SITE</b>            |          |             |                       |          |         |        |                  |        |         |         |            |        |          |        |
| Shallow                   | MW-FP1   | 02/12/03    | ND<10                 | ND<60    | ND<5.0  | 67     | <10              | ND<20  | ND<10   | ND<0.20 | ND<20      | 24     | ND<10    | ND<20  |
|                           |          | 04/15/10    | 20                    | ND<10    | ND<5.0  | 41     | 13               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 16     | ND<5.0   | ND<2   |
|                           |          | 01/05/15    | 10                    | ND<10    | ND<5.0  | 44     | 5.2              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 31     | ND<5.0   | ND<20  |
|                           |          | 08/25/15    | ND<10                 | ND<10    | ND<5.0  | 46     | 21               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 35     | ND<5.0   | ND<20  |
|                           |          | 03/04/16    | 20*                   | ND<10    | ND<5.0  | 42     | 11               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 12     | ND<5.0   | ND<20  |
|                           |          | 09/14/16    | 7.1                   | ND<10    | ND<5.0  | 39     | 8                | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 11     | ND<5.0   | ND<20  |
|                           | MW-FP2   | 02/12/03    | 70                    | ND<60    | ND<5.0  | 74     | 61               | ND<20  | ND<10   | ND<0.20 | ND<20      | ND<20  | ND<10    | ND<20  |
|                           |          | 04/15/10    | 30                    | ND<10    | ND<5.0  | 61     | 22               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | ND<5.0   | ND<2   |
|                           |          | 01/06/15    | 10                    | ND<10    | ND<5.0  | 32     | 16               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | ND<5.0   | ND<20  |
|                           |          | 08/25/15    | 10                    | ND<10    | ND<5.0  | 29     | 25               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | ND<5.0   | ND<20  |
|                           |          | 03/04/16    | 30*                   | ND<10    | ND<5.0  | 32     | 19               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | ND<5.0   | ND<20  |
|                           |          | 09/14/16    | 17                    | ND<10    | ND<5.0  | 33     | 15               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | ND<5.0   | 28     |
|                           | MW-FP3   | 04/15/10    | 180                   | ND<10    | ND<5.0  | 49     | 150              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 25     | ND<5.0   | 71     |
|                           |          | 01/05/15    | 280                   | ND<10    | ND<5.0  | 45     | 270              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 19     | 5.2      | ND<20  |
|                           |          | 08/25/15    | 250                   | ND<10    | ND<5.0  | 56     | 290              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 20     | ND<5.0   | ND<20  |
|                           |          | 03/04/16    | 240*                  | ND<10    | ND<5.0  | 55     | 300              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 29     | ND<5.0   | ND<20  |
|                           |          | 09/14/16    | 200                   | ND<10    | ND<5.0  | 70     | 200              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 20     | ND<5.0   | ND<20  |
|                           | MW-FP4A  | 04/15/10    | 460,000               | ND<10    | ND<5.0  | ND<5.0 | 400,000          | 180    | 37      | ND<0.20 | 68         | 930    | ND<5.0   | 61     |
|                           |          | 01/05/15    | 37,000                | 44       | ND<5.0  | 38     | 38,000           | 9.7    | 38      | ND<0.20 | 14         | 330    | ND<5.0   | 59     |
|                           |          | 08/25/15    | 8,400                 | ND<10    | ND<5.0  | 83     | 10,000           | 11     | 12      | ND<0.20 | 22         | 120    | ND<5.0   | 85     |
|                           |          | 03/04/16    | 200,000*              | ND<10    | ND<5.0  | 99     | 10,000           | 9.2    | 19      | ND<0.20 | 34         | 130    | ND<5.0   | 4      |
|                           |          | 09/14/16    | 12,000                | ND<10    | ND<5.0  | 97     | 12,000           | 7.1    | 20      | ND<0.20 | 14         | 130    | ND<5.0   | 110    |
|                           | MW-FP5   | 04/15/10    | 14,000                | ND<10    | ND<5.0  | 51     | 11,000           | 5.6    | ND<5.0  | ND<0.20 | 16         | 9.9    | ND<5.0   | 25     |
|                           |          | 01/05/15    | 11,000                | 16       | ND<5.0  | 55     | 14,000           | ND<5.0 | ND<5.0  | ND<0.20 | 6.0        | 12     | ND<5.0   | ND<20  |
|                           |          | 08/25/15    | 19,000                | ND<10    | ND<5.0  | 40     | 24,000           | ND<5.0 | ND<5.0  | ND<0.20 | 6.2        | 24     | ND<5.0   | ND<20  |
|                           |          | 03/04/16    | 5,700*                | ND<10    | ND<5.0  | 61     | 16,000           | ND<5.0 | ND<5.0  | ND<0.20 | 6.7        | 18     | ND<5.0   | ND<20  |
|                           |          | 09/14/16    | 30,000                | ND<10    | ND<5.0  | 56     | 20,000           | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 24     | ND<5.0   | ND<20  |
|                           | MW-FP6   | 04/15/10    | 15,000                | ND<10    | ND<5.0  | 40     | 11,000           | 6.1    | 6.5     | ND<0.20 | ND<5.0     | 26     | ND<5.0   | 33     |
|                           |          | 01/05/15    | 5,300                 | ND<10    | ND<5.0  | 44     | 5,400            | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 15     | ND<5.0   | ND<20  |
|                           |          | 08/25/15    | 19,000                | ND<10    | ND<5.0  | 31     | 23,000           | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | 38     | ND<5.0   | ND<20  |
| 03/04/16                  |          | 240*        | ND<10                 | ND<5.0   | 54      | 13,000 | ND<5.0           | ND<5.0 | ND<0.20 | 5.5     | 27         | ND<5.0 | ND<20    |        |
| 09/14/16                  |          | 18,000      | ND<10                 | ND<5.0   | 48      | 18,000 | ND<5.0           | ND<5.0 | ND<0.20 | ND<5.0  | 35         | ND<5.0 | ND<20    |        |
| MW-9                      | 04/15/10 | 5,700       | ND<10                 | ND<5.0   | 160     | 4,900  | ND<5.0           | ND<5.0 | ND<0.20 | ND<5.0  | ND<5.0     | ND<5.0 | 26       |        |
|                           | 09/01/15 | 12,000      | ND<10                 | ND<5.0   | 120     | 12,000 | ND<5.0           | ND<5.0 | ND<0.20 | ND<5.0  | 98         | ND<5.0 | ND<20    |        |
|                           | 03/04/16 | 4,300*      | ND<10                 | ND<5.0   | 40      | 930    | ND<5.0           | ND<5.0 | ND<0.20 | 5.5     | 8.4        | ND<5.0 | ND<20    |        |
|                           | 09/14/16 | 9,000       | ND<10                 | ND<5.0   | 160     | 9,100  | ND<5.0           | ND<5.0 | ND<0.20 | ND<5.0  | 33         | ND<5.0 | ND<20    |        |
| Deep                      | MW-FP4B  | 04/15/10    | 30                    | ND<10    | ND<5.0  | 41     | 43               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 20       | 30     |
|                           |          | 01/05/15    | 10                    | ND<10    | ND<5.0  | 24     | 11               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 8.9      | ND<20  |
|                           |          | 08/25/15    | ND<10                 | ND<10    | ND<5.0  | 25     | 40               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 7.3      | ND<20  |
|                           |          | 03/04/16    | 10*                   | ND<10    | ND<5.0  | 29     | 9.2              | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 11.0     | ND<20  |
|                           |          | 09/14/16    | 9.6                   | ND<10    | ND<5.0  | 29     | 10               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 9.6      | 300    |
|                           | MW-FP7B  | 04/15/10    | 1,200                 | ND<10    | ND<5.0  | 34     | 1,200            | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | ND<5.0   | ND<2   |
|                           |          | 01/05/15    | 20                    | ND<10    | ND<5.0  | 16     | 20               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 12       | ND<20  |
|                           |          | 08/25/15    | 20                    | ND<10    | ND<5.0  | 20     | 26               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 12       | ND<20  |
|                           |          | 03/04/16    | 20*                   | ND<10    | ND<5.0  | 27     | 23               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 12       | ND<20  |
|                           |          | 09/14/16    | 21                    | ND<10    | ND<5.0  | 31     | 21               | ND<5.0 | ND<5.0  | ND<0.20 | ND<5.0     | ND<5.0 | 12       | ND<20  |

**Table 3**  
**Groundwater Analytical Results - Dissolved Metals and Hexavalent Chromium**  
Former Francis Plating  
Oakland, California

| Groundwater Zone Screened | Well ID | Sample Date | Chromium (Hexavalent) | Antimony | Arsenic    | Barium       | Chromium (Total) | Cobalt   | Copper     | Mercury      | Molybdenum | Nickel     | Vanadium  | Zinc      |
|---------------------------|---------|-------------|-----------------------|----------|------------|--------------|------------------|----------|------------|--------------|------------|------------|-----------|-----------|
|                           |         |             | (µg/L)                | (µg/L)   | (µg/L)     | (µg/L)       | (µg/L)           | (µg/L)   | (µg/L)     | (µg/L)       | (µg/L)     | (µg/L)     | (µg/L)    | (µg/L)    |
| <b>OFF-SITE</b>           |         |             |                       |          |            |              |                  |          |            |              |            |            |           |           |
| Shallow                   | MW-1    | 01/06/15    | ND<10                 | ND<10    | <b>6.4</b> | <b>52</b>    | ND<5.0           | ND<5.0   | ND<5.0     | ND<0.20      | ND<5.0     | ND<5.0     | ND<5.0    | ND<20     |
|                           | MW-4    | 01/06/15    | ND<10                 | ND<10    | <b>5.2</b> | <b>35</b>    | ND<5.0           | ND<5.0   | ND<5.0     | ND<0.20      | ND<5.0     | ND<5.0     | ND<5.0    | ND<20     |
|                           | MW-5    | 01/06/15    | ND<10                 | ND<10    | ND<5.0     | <b>48</b>    | ND<5.0           | ND<5.0   | ND<5.0     | ND<0.20      | ND<5.0     | ND<5.0     | ND<5.0    | ND<20     |
| <b>GRAB GROUNDWATER</b>   |         |             |                       |          |            |              |                  |          |            |              |            |            |           |           |
| Shallow                   | SB-FP4  | 05/19/16    | ND<10                 | NA       | NA         | NA           | NA               | NA       | NA         | NA           | NA         | NA         | NA        | NA        |
|                           | SB-FP5  | 05/19/16    | ND<10                 | NA       | NA         | NA           | NA               | NA       | NA         | NA           | NA         | NA         | NA        | NA        |
|                           | Blank   | 05/19/16    | ND<10                 | NA       | NA         | NA           | NA               | NA       | NA         | NA           | NA         | NA         | NA        | NA        |
| <b>ESLs</b>               |         |             | <b>10</b>             | <b>6</b> | <b>10</b>  | <b>1,000</b> | <b>50</b>        | <b>3</b> | <b>3.1</b> | <b>0.025</b> | <b>78</b>  | <b>8.2</b> | <b>19</b> | <b>81</b> |

**Notes:**  
**Detections shown in Bold.**  
= Greater than ESL  
µg/L = Micrograms per liter  
ND<10 =Analyte not detected above laboratory reporting limit  
- = Not sampled  
NA = Not analyzed  
ESLs = CRWQCB Environmental Screening Levels - groundwater is a potential drinking water resource. (values above shaded)  
VALUE\* = Indicates hexavalent chromium sample was collected on March 30, 2016.

**Table 4**  
**Groundwater Analytical Results - Volatile Organic Compounds**  
Former Francis Plating  
Oakland, California

| Groundwater Zone Screened | Sample ID | Sample Date | PCE        | TCE        | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE    | Vinyl Chloride | Chloroform | Naphthalene | MTBE       |        |
|---------------------------|-----------|-------------|------------|------------|-------------|---------------|------------|----------------|------------|-------------|------------|--------|
|                           |           |             | (µg/L)     | (µg/L)     | (µg/L)      | (µg/L)        | (µg/L)     | (µg/L)         | (µg/L)     | (µg/L)      | (µg/L)     |        |
| ON-SITE                   |           |             |            |            |             |               |            |                |            |             |            |        |
| Shallow                   | MW-FP1    | 2/12/2003   | --         | ND<5       | ND<5        | ND<5          | ND<5       | --             | ND<5       | --          | ND<5       |        |
|                           |           | 11/28/2005  | --         | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 4/15/2010   | --         | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 1/5/2015    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | -          | -           | -          |        |
|                           |           | 8/25/2015   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<1.0      | -          |        |
|                           |           | 3/4/2016    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | -      |
|                           | MW-FP2    | 9/14/2016   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | ND<0.5 |
|                           |           | 2/12/2003   | --         | ND<5       | ND<5        | ND<5          | ND<5       | --             | ND<5       | --          | ND<5       |        |
|                           |           | 11/28/2005  | --         | <b>0.6</b> | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 4/15/2010   | --         | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 1/6/2015    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | -          | -           | -          |        |
|                           |           | 8/25/2015   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<1.0      | -          |        |
|                           | MW-FP3    | 3/4/2016    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | -      |
|                           |           | 9/14/2016   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | ND<0.5 |
|                           |           | 4/15/2010   | --         | <b>0.9</b> | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 1/5/2015    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | -          | -           | -          |        |
|                           |           | 8/25/2015   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<1.0      | -          |        |
|                           | MW-FP4A   | 3/4/2016    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | -      |
|                           |           | 9/14/2016   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | ND<0.5 |
|                           |           | 4/15/2010   | --         | <b>51</b>  | <b>31</b>   | <b>1.9</b>    | <b>0.5</b> | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 1/5/2015    | ND<0.5     | <b>52</b>  | <b>37</b>   | <b>2.6</b>    | <b>0.6</b> | ND<0.5         | -          | -           | -          |        |
|                           |           | 8/25/2015   | ND<0.5     | <b>91</b>  | <b>91</b>   | <b>5.4</b>    | <b>1.1</b> | ND<0.5         | ND<0.5     | ND<1.0      | -          |        |
|                           | MW-FP5    | 3/4/2016    | ND<0.5     | <b>93</b>  | <b>71</b>   | <b>4.7</b>    | <b>1.0</b> | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     | -      |
|                           |           | 9/14/2016   | ND<1.0     | <b>140</b> | <b>170</b>  | <b>8.7</b>    | <b>1.8</b> | ND<1.0         | ND<1.0     | ND<1.0      | ND<1.0     |        |
|                           |           | 4/15/2010   | --         | <b>1.2</b> | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
|                           |           | 1/5/2015    | ND<0.5     | <b>1.4</b> | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | -          | -           | -          |        |
|                           |           | 8/25/2015   | ND<0.5     | <b>3.2</b> | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | 1.1         | -          |        |
|                           | MW-FP6    | 3/4/2016    | ND<0.5     | <b>2.2</b> | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | -          |        |
|                           |           | 9/14/2016   | ND<0.5     | <b>2.7</b> | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     |        |
|                           |           | 4/15/2010   | --         | <b>9.4</b> | ND<0.5      | ND<0.5        | ND<0.5     | --             | ND<0.5     | --          | ND<0.5     |        |
| 1/5/2015                  |           | ND<0.5      | <b>6.6</b> | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | -              | -          | -           |            |        |
| MW-9                      | 8/25/2015 | ND<0.5      | <b>9.6</b> | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<1.0      | -          |        |
|                           | 3/4/2016  | ND<0.5      | <b>9.9</b> | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | -           |            |        |
|                           | 9/14/2016 | ND<0.5      | <b>8.9</b> | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      |            |        |
|                           | 4/15/2010 | --          | <b>27</b>  | <b>48</b>  | <b>0.9</b>  | ND<0.5        | --         | ND<0.5         | --         | <b>1.3</b>  |            |        |
| Deep                      | MW-FP4B   | 9/1/2015    | ND<0.5     | <b>20</b>  | <b>8.2</b>  | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<1.0      | -          |        |
|                           |           | 3/4/2016    | ND<0.5     | <b>3</b>   | <b>1.7</b>  | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | -          |        |
|                           |           | 9/14/2016   | ND<0.5     | <b>22</b>  | <b>13</b>   | ND<0.5        | ND<0.5     | ND<0.5         | ND<0.5     | ND<0.5      | <b>4.9</b> |        |
|                           |           | 4/15/2010   | --         | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | --             | <b>19</b>  | --          | ND<0.5     |        |
|                           |           | 1/5/2015    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | -          | -           | -          |        |
|                           | MW-FP7B   | 8/25/2015   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | <b>7</b>   | ND<1.0      | -          |        |
|                           |           | 3/4/2016    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | <b>1.8</b> | ND<0.5      | -          |        |
|                           |           | 9/14/2016   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | <b>3.3</b> | ND<0.5      | ND<0.5     |        |
|                           |           | 4/15/2010   | --         | <b>4.9</b> | <b>2.3</b>  | ND<0.5        | ND<0.5     | --             | <b>7.9</b> | --          | <b>1.3</b> |        |
|                           |           | 1/5/2015    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | -          | -           | -          |        |
|                           |           | 8/25/2015   | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | <b>17</b>  | ND<1.0      | -          |        |
|                           |           | 3/4/2016    | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5     | ND<0.5         | <b>15</b>  | ND<0.5      | -          |        |
| 9/14/2016                 | ND<0.5    | ND<0.5      | ND<0.5     | ND<0.5     | ND<0.5      | ND<0.5        | <b>10</b>  | ND<0.5         | ND<0.5     |             |            |        |

**Table 4**  
**Groundwater Analytical Results - Volatile Organic Compounds**  
Former Francis Plating  
Oakland, California

| Groundwater Zone Screened               | Sample ID  | Sample Date | PCE      | TCE        | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE  | Vinyl Chloride | Chloroform | Naphthalene | MTBE       |
|---|------------|-------------|----------|------------|-------------|---------------|----------|----------------|------------|-------------|------------|
|   |            |             | (µg/L)   | (µg/L)     | (µg/L)      | (µg/L)        | (µg/L)   | (µg/L)         | (µg/L)     | (µg/L)      | (µg/L)     |
| OFF-SITE                                |            |             |          |            |             |               |          |                |            |             |            |
| Shallow                                 | MW-1       | 1/6/2015    | ND<0.5   | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5   | ND<0.5         | -          | -           | -          |
|   | MW-4       | 1/6/2015    | ND<0.5   | <b>2.2</b> | ND<0.5      | ND<0.5        | ND<0.5   | ND<0.5         | -          | -           | -          |
|   | MW-5       | 1/6/2015    | ND<0.5   | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5   | ND<0.5         | -          | -           | -          |
| QA/QC                                   | TB-1       | 8/25/2015   | ND<0.5   | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5   | ND<0.5         | ND<0.5     | ND<1.0      | -          |
|   | TRIP BLANK | 9/1/2015    | ND<0.5   | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5   | ND<0.5         | ND<0.5     | ND<1.0      | -          |
|   | TB-1       | 9/14/2016   | ND<0.5   | ND<0.5     | ND<0.5      | ND<0.5        | ND<0.5   | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     |
| GRAB GROUNDWATER                        |            |             |          |            |             |               |          |                |            |             |            |
| Shallow                                 | SB-FP4     | 5/19/2016   | ND<0.5   | <b>19</b>  | <b>8.3</b>  | ND<0.5        | ND<0.5   | ND<0.5         | ND<0.5     | ND<0.5      | ND<0.5     |
|   | SB-FP5     | 5/19/2016   | ND<0.5   | <b>41</b>  | <b>14</b>   | <b>2.2</b>    | ND<0.5   | ND<0.5         | ND<0.5     | ND<0.5      | <b>120</b> |
| <b>ESLs - Maximum Contaminant Level</b> |            |             | <b>5</b> | <b>5</b>   | <b>6</b>    | <b>10</b>     | <b>6</b> | <b>0.5</b>     | <b>80</b>  | <b>6.1</b>  | <b>5</b>   |

**Notes:**  
**Detections shown in Bold.**  
= Greater than ESL  
µg/L = Micrograms per liter  
PCE = Tetrachloroethylene  
TCE = Trichloroethene  
cis-1,2-DCE = cis-1,2-Dichloroethene  
trans-1,2-DCE = trans-1,2-Dichloroethene  
1,1-DCE = 1,1-Dichloroethene  
ND<0.50 = Not detected above laboratory's reporting limit  
- = Not sampled  
ESLs = CRWQCB Environmental Screening Levels - groundwater is a potential drinking water resource. (values above shaded)

**APPENDIX A**  
**REGULATORY CORRESPONDENCE**



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

January 13, 2016

Mr. Tom McCoy 94612 (Sent via E-mail to: [tmccoy@bbiconstruction.com](mailto:tmccoy@bbiconstruction.com))  
Brush Street Group, LLC  
1155 3<sup>rd</sup> Street, Suite 230  
Oakland, CA 94607

Subject: Conditional Work Plan Approval for SLIC Case RO0002586 and GeoTracker Global ID SL0600130797, Francis Plating Frog Pond, 789 7<sup>th</sup> Street, Oakland, CA 94607

Dear Mr. McCoy:

Alameda County Environmental Health (ACEH) staff has reviewed the Site Cleanup Program (SCP) case file for the above referenced site including the recently submitted document entitled, "*Revised Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Work Plan, Former Francis Plating – Frog Pond Site, 789 Seventh Street, Oakland, California,*" dated February 23, 2015 (Work Plan). The Work Plan proposes three on-site borings to collect data to help evaluate source area remedial options and two off-site borings for plume delineation.

The proposed scope of work in the Work Plan is conditionally approved and may be implemented provided that the technical comments below are incorporated during the site investigation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

#### **TECHNICAL COMMENTS**

- 1. Depth of Off-site Borings and Grab Groundwater Sampling.** The Scope of Work section on page 4 of the Work Plan indicates that off-site borings will be advanced to depth of approximately 20 and 50 feet bgs for the collection of grab groundwater samples. Table 1 – Proposed Sampling Plan indicates that the proposed sample depths for the off-site borings will be 30 feet bgs. Since the depth to groundwater at the site ranges from approximately 11 to 17 feet bgs, the collection of grab groundwater samples from a depth of 30 feet bgs is not acceptable to define the shallow groundwater plume. We request that the grab groundwater samples be collected less than 10 feet below first-encountered groundwater. In no case should the grab groundwater samples be collected below a depth of 25 feet bgs. Please present the sampling results in the Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Report requested below.
- 2. Clarification of Laboratory Analysis.** We generally concur with the proposed laboratory analyses presented in Table 1. However, the soil samples from the on-site borings will be analyzed for metals and not dissolved metals. We request that the two grab groundwater samples be analyzed for both total and dissolved hexavalent chromium.

Mr. Tom McCoy  
RO0002586  
January 13, 2016  
Page 2

### **TECHNICAL REPORT REQUEST**

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- **March 25, 2016** – Semi-annual Groundwater Monitoring Report  
File to be named: GWM\_R\_yyyy-mm-dd RO2586
- **May 8, 2016** – Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Report  
File to be named: SWI\_R\_yyyy-mm-dd RO2586

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org). Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Margot Lederer Prado, City of Oakland Economic Development Division, Brownfields Management, 250 Frank H. Ogawa Plaza, Suite 3315, Oakland, CA 94612 (*Sent via E-mail to: [MPrado@oaklandnet.com](mailto:MPrado@oaklandnet.com)*)

Adam Brown, The Source Group, Inc., 944 McCourtney Road, Suite H, Grass Valley, CA 95949 (*Sent via E-mail to: [abrown@thesourcegroup.net](mailto:abrown@thesourcegroup.net)*)

Markus Niebanck, Amicus, 580 Second Street, Suite 260, Oakland, CA 94607 (*Sent via E-mail to: [markus@amicusenv.com](mailto:markus@amicusenv.com)*)

Jerry Wickham, ACEH (*Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)*)  
GeoTracker, eFile



## Attachment 1

### Responsible Party(ies) Legal Requirements / Obligations

#### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

|   |   |
|---|---|
| <b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b> | <b>REVISION DATE:</b> May 15, 2014  |
|   | <b>ISSUE DATE:</b> July 5, 2005   |
|   | <b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010 |
| <b>SECTION:</b> Miscellaneous Administrative Topics & Procedures              | <b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions   |

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

**APPENDIX B**  
**FIELD FORMS**



Confluence Environmental, Inc.  
 3308 El Camino Ave, Suite 300 #148  
 Sacramento, CA 95821  
 916-760-7641 - main  
 916-473-8617 - fax  
 www.confluence-env.com

# Chain of Custody

Project Name: Former Francis Plating - Frog Pond Site, Oakland  
 Job Number: CI-160914  
 TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

|  |  |  |
|--|--|--|
| Lab: Curtis & Tompkins                         | Site Address: 751-785 7th St, Oakland          | Confluence PM: Jason Brown               |
| Address: 2323 Fifth Street, Berkeley, CA 94710 | California Global ID No.: SL0600130797         | Phone / Fax: 916-760-7641 / 916-473-8617 |
| Contact: Mike Dalquist                         | Include EDF w/ Report: <u>Yes</u> No           | Confluence Log Code: CESC                |
| Phone/ Fax: 510-486-0900                       | Consultant / PM: The Source Group / Adam Brown | Report to: The Source Group              |
|  | Phone / Fax: 530-906-4545                      | Invoice to: The Source Group             |

| Sample ID | Time | Date    | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |      | Requested Analysis |                           |                             |   |  |  |  | Notes and Comments |  |  |  |  |  |  |
|-----------|------|---------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|------|--------------------|---------------------------|-----------------------------|---|--|--|--|--------------------|--|--|--|--|--|--|
|           |      |         | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | VOC's (8260)       | Title 22 Metals * (6010B) | Hexavalent Chromium* (7199) |   |  |  |  |                    |  |  |  |  |  |  |
| TB        | -    | 9/14/16 | X          |              |     | 3              |                   |              |                                | 3                |     |      |                    | X                         |                             |   |  |  |  |                    |  |  |  |  |  |  |
| MW-FP7B   | 825  | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP2    | 900  | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP6    | 945  | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-9      | 1015 | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP1    | 1105 | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP4B   | 1140 | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP4A   | 1210 | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP3    | 1235 | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |
| MW-FP5    | 1305 | 9/14/16 | X          |              |     | 5              | 1                 |              | 1                              | 3                |     |      |                    | X                         | X                           | X |  |  |  |                    |  |  |  |  |  |  |

|   |                                |                      |                   |                            |                      |                    |
|---|--------------------------------|----------------------|-------------------|----------------------------|----------------------|--------------------|
| Sampler's Name: <u>Jeremy Carroll</u>       | Relinquished By / Affiliation: | Date: <u>9/14/16</u> | Time: <u>1355</u> | Accepted By / Affiliation: | Date: <u>9/14/16</u> | Time: <u>13:55</u> |
| Sampler's Company: Confluence Environmental |                                |                      |                   |                            |                      |                    |
| Shipment Date:                              |                                |                      |                   |                            |                      |                    |
| Shipment Method:                            |                                |                      |                   |                            |                      |                    |

Special Instructions: \*Title 22 Metals samples field filtered \*\*J to MDL for CRVI

### Meter Calibration Log

| EQUIPMENT MAKE | EQUIPMENT MODEL | SERIAL NUMBER | DATE    | TIME | TEMP OF CALIBRATION STANDARD (°C or °F) | pH       | pH       | pH       | SPECIFIC CONDUCTANCE         | ORP                 | DISSOLVED OXYGEN     |
|----------------|-----------------|---------------|---------|------|---|----------|----------|----------|------------------------------|---------------------|----------------------|
|                |                 |               |         |      |   | STANDARD | STANDARD | STANDARD |                              |                     |                      |
|                |                 |               |         |      |   | 4        | 7        | 10       | <u>1413</u> $\mu\text{S/cm}$ | <u>See below</u> mV | <u>100</u> mg/L or % |
| YSI            | Pro Plus        | 13C101274     | 9/14/16 | 720  | 19.7                                    | 4        | 7        | 10       | 1413                         | 239.1               | 99.5                 |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |
|                |                 |               |         |      |   |          |          |          |                              |                     |                      |

# Water Level Measurements

Job Number: C1-160914 Date: 9/14/16 Client: The source group

Site: Former Francis Plating, Oakland

| Well I.D.                  | Time | Dia | Depth to NAPL | Thickness of NAPL | Depth to water (DTW) | Total Depth (measured)   | Total Depth (historical) | Ref Point TOC/TOB |  |                  |
|----------------------------|------|-----|---------------|-------------------|----------------------|--------------------------|--------------------------|-------------------|--|------------------|
| MW-FP1                     | 1040 | 2"  |               |                   | 17.03                | 24.99                    | 24.94                    | 90C               |  |                  |
| MW-FP2                     | 658  | 2"  |               |                   | 15.40                | 25.00                    | 24.90                    |                   |  |                  |
| MW-FP3                     | 1035 | 2"  |               |                   | 17.13                | 25.96                    | 24.92                    |                   |  |                  |
| MW-FP4A                    | 1030 | 2"  |               |                   | 17.29                | 24.90                    | 24.94                    |                   |  |                  |
| MW-FP4B                    | 1028 | 2"  |               |                   | 17.78                | 56.70                    | 56.66                    |                   |  |                  |
| MW-FP5                     | 1150 | 2"  |               |                   | 17.27                | 25.00                    | 24.97                    |                   |  | Parted over 1030 |
| MW-FP6                     | 914  | 2"  |               |                   | 13.05                | 24.65                    | 24.58                    |                   |  |                  |
| MW-FP7B                    | 708  | 2"  |               |                   | 12.63                | 49.10                    | 48.96                    |                   |  |                  |
| MW-9                       | 918  | 4"  |               |                   | 13.11                | 19.00                    | -                        |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
| * Sampled MW-FP7B & MW-FP2 |      |     |               |                   |                      | MW-9, MW-FP6             |                          |                   |  |                  |
| due to access              |      |     |               |                   |                      | before gauging all wells |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |
|                            |      |     |               |                   |                      |                          |                          |                   |  |                  |

# Well Maintenance Inspection Form

Client: *The source group* Site: *Francis Plating*

Date: *9/14/16*

Job #: *C1-160914*

Technician: *J. CAIRD*

Page 1 of 1

| Inspection Point | Entry Indicates Deficiency                           |                    |                     |              |   |   |   |                         |               |                  |             |             |                             | Well Not Inspected<br>(explain in notes) | Notes<br>(Note any repairs made while on site) |
|------------------|--|--------------------|---------------------|--------------|---|---|---|-------------------------|---------------|------------------|-------------|-------------|-----------------------------|--|--|
|                  | Well Inspected -<br>No Corrective<br>Action Required | Cap non-functional | Lock non-functional | Lock missing | Bolts missing<br>(# missing / # total tabs) | Tabs stripped<br>(# stripped / # total tabs.) | Tabs broken<br>(# broken / # of total tabs) | Annular seal incomplete | Apron damaged | Rim / Lid broken | Trip Hazard | Below Grade | Other<br>(explain in notes) |  |  |
| MW-FP1           | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP2           | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP3           | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP4A          | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP4B          | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP5           | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP6           | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-FP7B          | ✓  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
| MW-9             | <i>AS</i>  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |
|                  |  |                    |                     |              | /   | /   | /   |                         |               |                  |             |             |                             |  |  |

Notes: \_\_\_\_\_

Repair codes: **rt**=retap/ bolts added or replaced    **as**=annular seal repair,

# Purging And Sampling Data Sheet

|   |   |  |
|---|---|--|
| <b>Job#:</b> C1-160914  | <b>Sampler:</b> J Caird                     | <b>Client:</b> The Source Group              |
| <b>Well ID:</b> <sup>JC</sup> <del>MW-FP6</del> MW-FPI  | <b>Date:</b> 9/14/16                        | <b>Site:</b> Former Francis Plating, Oakland |
| <b>Well diam:</b> 1/4" 1" (2") 3" 4" 6" Other:  | <b>DTW:</b> 17.03 <b>Total Depth:</b> 24.99 |  |
| <b>Purge equip:</b> ES - diam: Bladder (Peri) Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other:                   | <b>Tubing:</b> OD: (New) Dedicated NA       |  |
| <b>Purge method:</b> 3-5 Case Volume (Micro/Low-Flow) Extraction Other:   |   |  |
| <b>Pump depth/ intake:</b> <del>19.24</del> <b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163 |   |  |
| (TD - DTW X Multiplier = 1 Volume)  |   | 80% Recovery (TD - DTW X 0.20 + DTW)         |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge) 80%= \_\_\_\_\_

| Time | Temp (°C / °F) | pH   | Cond (mS / (µS)) | Turbidity (NTU) | Purge Rate (gal or mL / min) | Volume Removed (gal / L) | DO (mg/l) | ORP (mv) | DTW   | Notes |
|------|----------------|------|------------------|-----------------|------------------------------|--------------------------|-----------|----------|-------|-------|
| 1049 | 21.3           | 6.62 | 472.9            | 14              | 200                          | 0.6                      | 1.31      | 110.0    | 17.25 |       |
| 1052 | 21.1           | 6.45 | 452.0            | 10              |                              | 1.2                      | 1.20      | 111.0    | 17.25 |       |
| 1055 | 21.1           | 6.34 | 445.0            | 6               |                              | 1.8                      | 1.18      | 112.4    | 17.25 |       |
| 1058 | 21.0           | 6.23 | 448.7            | 5               |                              | 2.4                      | 1.30      | 114.5    | 17.25 |       |
| 1101 | 21.1           | 6.22 | 449.1            | 4               |                              | 3.0                      | 1.30      | 114.7    | 17.25 |       |
| 1104 | 21.1           | 6.21 | 450.7            | 5               |                              | 3.6                      | 1.31      | 114.9    | 17.25 |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |
|      |                |      |                  |                 |                              |                          |           |          |       |       |

|  |  |
|--|--|
| Did well dewater? YES (NO)   | Total volume removed: 3.6 (gal (L))    |
| Sample method: Disp Bailer Ded. Tubing (New Tubing) Ext. Port Other: |  |
| Sample date: 9/14/16   | Sample time: 1105 DTW at sample: 17.25 |
| Sample ID: <sup>X</sup> <del>MW-FP6</del> MW-FPI                     | Lab: C&T Number of bottles: 5          |
| Analysis: VOC's, Metals, CrVI  |  |
| Equipment blank ID @   | Field blank ID @                       |
| Duplicate ID:  | Pre-purge DO: Post purge DO:           |
| Fe2 <sup>+</sup> :   | Pre-purge ORP: Post purge ORP:         |
| NAPL depth:  | Volume of NAPL: Volume removed: ml     |



## Purging And Sampling Data Sheet

|  |                  |                                       |
|--|------------------|---------------------------------------|
| Job#: C1-160914  | Sampler: J Caird | Client: The Source Group              |
| Well ID: MW-FP2  | Date: 9/14/16    | Site: Former Francis Plating, Oakland |
| Well diam: 1/4" 1" (2) 3" 4" 6" Other:   | DTW: 15.40       | Total Depth: 25.00                    |
| Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: |                  |                                       |
| Tubing: OD: (New) Dedicated NA   |                  |                                       |
| Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:   |                  |                                       |
| Pump depth/ intake: 19' Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius <sup>2</sup> X 0.163  |                  |                                       |
| (TD - DTW X Multiplier = 1 Volume  |                  | 80% Recovery (TD - DTW X 0.20 + DTW)  |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge) 80% = \_\_\_\_\_

| Time | Temp<br>(°C/°F) | pH   | Cond<br>(mS /µS) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or (mL/ min) | Volume<br>Removed<br>(gal (L)) | DO (mg/l) | ORP<br>(mv) | DTW   | Notes |
|------|-----------------|------|------------------|--------------------|------------------------------------|--------------------------------|-----------|-------------|-------|-------|
| 842  | 20.1            | 6.93 | 340.3            | 6                  | 200                                | 0.6                            | 5.70      | 101.9       | 15.40 |       |
| 845  | 20.2            | 6.81 | 336.7            | 5                  | ↓                                  | 1.2                            | 5.80      | 102.9       | 15.40 |       |
| 848  | 20.1            | 6.70 | 334.2            | 5                  |                                    | 1.8                            | 4.89      | 104.2       | 15.40 |       |
| 851  | 20.0            | 6.63 | 331.5            | 6                  |                                    | 2.4                            | 4.33      | 104.7       | 15.40 |       |
| 854  | 20.1            | 6.58 | 331.3            | 5                  |                                    | 3.0                            | 4.24      | 104.8       | 15.40 |       |
| 857  | 20.1            | 6.57 | 330.2            | 5                  |                                    | 3.6                            | 4.16      | 104.9       | 15.40 |       |
|      |                 |      |                  |                    |                                    |                                |           |             |       |       |
|      |                 |      |                  |                    |                                    |                                |           |             |       |       |
|      |                 |      |                  |                    |                                    |                                |           |             |       |       |
|      |                 |      |                  |                    |                                    |                                |           |             |       |       |
|      |                 |      |                  |                    |                                    |                                |           |             |       |       |
|      |                 |      |                  |                    |                                    |                                |           |             |       |       |

|  |                                       |
|--|---------------------------------------|
| Did well dewater? YES (NO)   | Total volume removed: 3.6 (gal (L))   |
| Sample method: Disp Bailer Ded. Tubing (New Tubing) Ext. Port Other: |                                       |
| Sample date: 9/14/16   | Sample time: 900 DTW at sample: 15.40 |
| Sample ID: MW-FP2  | Lab: C&T Number of bottles: 5         |
| Analysis: VOC's, Metals, CrVI  |                                       |
| Equipment blank ID @   | Field blank ID @                      |
| Duplicate ID:  | Pre-purge DO: Post purge DO:          |
| Fe2 <sup>+</sup> :   | Pre-purge ORP: Post purge ORP:        |
| NAPL depth:  | Volume of NAPL: Volume removed: ml    |

# Purging And Sampling Data Sheet

|  |                               |                                       |
|--|-------------------------------|---------------------------------------|
| Job#: C1-160914  | Sampler: J Caird              | Client: The Source Group              |
| Well ID: MW-FP3  | Date: 9/14/16                 | Site: Former Francis Plating, Oakland |
| Well diam: 1/4" 1" (2) 3" 4" 6" Other:   | DTW: 17.13 Total Depth: 25.96 |                                       |
| Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: |                               |                                       |
| Tubing: OD: New Dedicated NA   |                               |                                       |
| Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:   |                               |                                       |
| Pump depth/ intake: 21' Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163 |                               |                                       |
| (TD - DTW X Multiplier = 1 Volume)   |                               | 80% Recovery (TD - DTW X 0.20 + DTW)  |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)                      80% = \_\_\_\_\_

| Time | Temp<br>(°F) | pH   | Cond<br>(mS) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or mL/min) | Volume<br>Removed<br>(gal) | DO (mg/l) | ORP<br>(mv) | DTW   | Notes |
|------|--------------|------|--------------|--------------------|----------------------------------|----------------------------|-----------|-------------|-------|-------|
| 1219 | 22.1         | 6.57 | 968          | 8                  | 200                              | 0.6                        | 3.24      | 119.4       | 17.30 |       |
| 1222 | 22.1         | 6.39 | 935          | 6                  |                                  | 1.2                        | 3.15      | 125.9       | 17.30 |       |
| 1225 | 22.0         | 6.35 | 927          | 5                  |                                  | 1.8                        | 3.13      | 126.9       | 17.30 |       |
| 1228 | 22.1         | 6.28 | 922          | 5                  |                                  | 2.4                        | 3.11      | 129.7       | 17.30 |       |
| 1231 | 22.1         | 6.26 | 920          | 4                  |                                  | 3.0                        | 3.12      | 130.3       | 17.30 |       |
|      |              |      |              |                    |                                  |                            |           |             |       |       |

Did well dewater? YES  NO  Total volume removed: 3.0 (gal)

Sample method: Disp Bailer Ded. Tubing  New Tubing  Ext. Port Other:

Sample date: 9/14/16 Sample time: 1235 DTW at sample: 17.30

Sample ID: MW-FP3 Lab: C&T Number of bottles: 5

Analysis: VOC's, Metals, CrVI

Equipment blank ID @ Field blank ID @

Duplicate ID: Pre-purge DO: Post purge DO:

Fe<sup>2+</sup>: Pre-purge ORP: Post purge ORP:

NAPL depth: Volume of NAPL: Volume removed: ml

## Purging And Sampling Data Sheet

|  |  |   |                                      |  |                           |
|--|--|---|--------------------------------------|--|---------------------------|
| <b>Job#:</b> C1-160914   |  | <b>Sampler:</b> J Caird   |                                      | <b>Client:</b> The Source Group              |                           |
| <b>Well ID:</b> MW-FP4A  |  | <b>Date:</b> 9/14/16  |                                      | <b>Site:</b> Former Francis Plating, Oakland |                           |
| <b>Well diam:</b> 1/4" 1" (2) 3" 4" 6" Other:  |  |   | <b>DTW:</b> 17.29                    |  | <b>Total Depth:</b> 24.90 |
| <b>Purge equip:</b> ES - diam: Bladder <u>Peri</u> Watterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: <b>Tubing:</b> OD: <u>New</u> Dedicated NA |  |   |                                      |  |                           |
| <b>Purge method:</b> 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:   |  |   |                                      |  |                           |
| <b>Pump depth/ intake:</b> 21'   |  | <b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163 |                                      |  |                           |
| (TD - DTW X Multiplier = 1 Volume)   |  |   | 80% Recovery (TD - DTW X 0.20 + DTW) |  |                           |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)

80% = \_\_\_\_\_

| Time                 | Temp<br>(°C/°F) | pH   | Cond<br>(mS/µS) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or mL/min) | Volume<br>Removed<br>(gal (L)) | DO (mg/l) | ORP<br>(mv) | DTW   | Notes        |
|----------------------|-----------------|------|-----------------|--------------------|----------------------------------|--------------------------------|-----------|-------------|-------|--------------|
| 1154                 | 21.6            | 6.21 | 2606            | 15                 | 200                              | 0.6                            | 1.40      | 138.9       | 17.35 | Yellow Color |
| 1157                 | 21.2            | 6.18 | 2596            | 6                  |                                  | 1.2                            | 1.24      | 139.5       | 17.35 |              |
| <del>1200</del> 1200 | 21.5            | 6.18 | 2568            | 5                  |                                  | 1.8                            | 1.28      | 139.7       | 17.35 |              |
| 1203                 | 21.4            | 6.20 | 2502            | 4                  |                                  | 2.4                            | 1.29      | 140.1       | 17.35 |              |
| 1206                 | 21.4            | 6.20 | 2495            | 4                  |                                  | 3.0                            | 1.30      | 141.2       | 17.35 |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |
|                      |                 |      |                 |                    |                                  |                                |           |             |       |              |

Did well dewater? YES NO Total volume removed: 3.0 (gal (L))

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 9/14/16 Sample time: 1210 DTW at sample: 17.35

Sample ID: MW-FP4A Lab: C&T Number of bottles: 5

Analysis: VOC's, Metals, CrVI

|                      |                 |                  |                 |
|----------------------|-----------------|------------------|-----------------|
| Equipment blank ID @ |                 | Field blank ID @ |                 |
| Duplicate ID:        |                 | Pre-purge DO:    | Post purge DO:  |
| Fe <sup>2+</sup> :   |                 | Pre-purge ORP:   | Post purge ORP: |
| NAPL depth:          | Volume of NAPL: | Volume removed:  | ml              |

## Purging And Sampling Data Sheet

|   |                  |                                       |
|---|------------------|---------------------------------------|
| Job#: C1-160914   | Sampler: J Caird | Client: The Source Group              |
| Well ID: <del>MW-FP3<sup>c</sup></del> MW-FP4B  | Date: 9/14/16    | Site: Former Francis Plating, Oakland |
| Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:  | DTW: 17.78       | Total Depth: <del>56.70</del> 25.96   |
| Purge equip: ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: |                  |                                       |
| Tubing: OD: <u>New</u> Dedicated NA   |                  |                                       |
| Purge method: 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:   |                  |                                       |
| Pump depth/ intake: <u>51'</u> Multipliers: 1"=0.04 2"=0.16 3"=0.37 4"=0.65 5"=1.02 6"=1.47 Radius <sup>2</sup> X 0.163       |                  |                                       |
| (TD - DTW X Multiplier = 1 Volume)  |                  | 80% Recovery (TD - DTW X 0.20 + DTW)  |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)      80% = \_\_\_\_\_

| Time | Temp<br>(°F) | pH   | Cond<br>(mS) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or mL/min) | Volume<br>Removed<br>(gal/L) | DO (mg/l) | ORP<br>(mv) | DTW   | Notes                 |
|------|--------------|------|--------------|--------------------|----------------------------------|------------------------------|-----------|-------------|-------|-----------------------|
| 1121 | 20.3         | 6.54 | 317.8        | 7                  | 200                              | 0.6                          | 1.57      | 108.0       | 17.45 |                       |
| 1124 | 20.6         | 6.51 | 330.8        | 8                  | 200                              | 1.2                          | 1.17      | 105.0       | 17.50 | Dropped to 150 mL/min |
| 1127 | 20.7         | 6.50 | 457.0        | 6                  | 150                              | 1.65                         | 0.80      | 103.7       | 17.45 |                       |
| 1130 | 20.7         | 6.51 | 509.9        | 5                  | ↓                                | 2.10                         | 0.84      | 103.4       | 17.45 |                       |
| 1133 | 20.8         | 6.55 | 530.2        | 4                  |                                  | 2.55                         | 0.78      | 102.4       | 17.45 |                       |
| 1136 | 20.8         | 6.60 | 546.3        | 4                  |                                  | 3.0                          | 0.76      | 101.9       | 17.45 |                       |
| 1139 | 20.8         | 6.62 | 554.0        | 4                  |                                  | 3.45                         | 0.74      | 101.8       | 17.45 |                       |
|      |              |      |              |                    |                                  |                              |           |             |       |                       |
|      |              |      |              |                    |                                  |                              |           |             |       |                       |
|      |              |      |              |                    |                                  |                              |           |             |       |                       |
|      |              |      |              |                    |                                  |                              |           |             |       |                       |
|      |              |      |              |                    |                                  |                              |           |             |       |                       |

|   |   |
|---|---|
| Did well dewater? YES <u>NO</u>   | Total volume removed: 3.45 (gal) <u>L</u> |
| Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other: |   |
| Sample date: 9/14/16  | Sample time: 1140 DTW at sample: 17.45    |
| Sample ID: <del>MW-FP3</del> <sup>3C</sup> MW-FP4B                        | Lab: C&T Number of bottles: 5             |
| Analysis: VOC's, Metals, CrVI   |   |
| Equipment blank ID @  | Field blank ID @                          |
| Duplicate ID:   | Pre-purge DO: Post purge DO:              |
| Fe2 <sup>+</sup> :  | Pre-purge ORP: Post purge ORP:            |
| NAPL depth:   | Volume of NAPL: Volume removed: ml        |

## Purging And Sampling Data Sheet

|   |                               |                                       |
|---|-------------------------------|---------------------------------------|
| Job#: C1-160914   | Sampler: J Caird              | Client: The Source Group              |
| Well ID: MW-FPS   | Date: 9/14/16                 | Site: Former Francis Plating, Oakland |
| Well diam: 1/4" 1" (2") 3" 4" 6" Other:   | DTW: 17.27 Total Depth: 25.00 |                                       |
| Purge equip: ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: |                               |                                       |
| Tubing: OD: New <u>Dedicated</u> NA   |                               |                                       |
| Purge method: 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:   |                               |                                       |
| Pump depth/ intake: 21 Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius <sup>2</sup> X 0.163          |                               |                                       |
| (TD - DTW X Multiplier = 1 Volume) 80% Recovery (TD - DTW X 0.20 + DTW)   |                               |                                       |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge) 80%= \_\_\_\_\_

| Time | Temp (°C / °F) | pH   | Cond (mS / S) | Turbidity (NTU) | Purge Rate (gal or (ml/min) | Volume Removed (gal / L) | DO (mg/l) | ORP (mv) | DTW   | Notes |
|------|----------------|------|---------------|-----------------|-----------------------------|--------------------------|-----------|----------|-------|-------|
| 1248 | 20.7           | 6.77 | 485.4         | 8               | 200                         | 0.6                      | 1.66      | 119.1    | 17.50 |       |
| 1251 | 20.7           | 6.74 | 489.4         | 6               | ↓                           | 1.2                      | 1.49      | 122.0    | 17.50 |       |
| 1254 | 20.8           | 6.70 | 495.1         | 5               |                             | 1.8                      | 1.35      | 123.4    | 17.50 |       |
| 1257 | 20.9           | 6.68 | 497.8         | 5               |                             | 2.4                      | 1.29      | 124.0    | 17.50 |       |
| 1300 | 20.9           | 6.67 | 500.7         | 4               |                             | 3.0                      | 1.23      | 124.6    | 17.50 |       |
|      |                |      |               |                 |                             |                          |           |          |       |       |
|      |                |      |               |                 |                             |                          |           |          |       |       |
|      |                |      |               |                 |                             |                          |           |          |       |       |
|      |                |      |               |                 |                             |                          |           |          |       |       |
|      |                |      |               |                 |                             |                          |           |          |       |       |
|      |                |      |               |                 |                             |                          |           |          |       |       |

|   |                                     |                      |
|---|-------------------------------------|----------------------|
| Did well dewater? YES <u>NO</u>   | Total volume removed: 3.0 (gal / L) |                      |
| Sample method: Disp Bailer <u>Ded. Tubing</u> New Tubing Ext. Port Other: |                                     |                      |
| Sample date: 9/14/16  | Sample time: 1305                   | DTW at sample: 17.50 |
| Sample ID: MW-FPS   | Lab: C&T                            | Number of bottles: 5 |
| Analysis: VOC's, Metals, CrVI   |                                     |                      |
| Equipment blank ID @  | Field blank ID @                    |                      |
| Duplicate ID:   | Pre-purge DO:                       | Post purge DO:       |
| Fe <sup>2+</sup> :  | Pre-purge ORP:                      | Post purge ORP:      |
| NAPL depth:   | Volume of NAPL:                     | Volume removed: ml   |

## Purging And Sampling Data Sheet

|  |                         |  |
|--|-------------------------|--|
| <b>Job#:</b> C1-160914   | <b>Sampler:</b> J Caird | <b>Client:</b> The Source Group              |
| <b>Well ID:</b> MW-FP6   | <b>Date:</b> 9/14/16    | <b>Site:</b> Former Francis Plating, Oakland |
| <b>Well diam:</b> 1/4" 1" <u>2"</u> 3" 4" 6" Other:  |                         | <b>DTW:</b> 13.05 <b>Total Depth:</b> 24.65  |
| <b>Purge equip:</b> ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: |                         |  |
| <b>Tubing:</b> OD: <u>New</u> Dedicated NA   |                         |  |
| <b>Purge method:</b> 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:   |                         |  |
| <b>Pump depth/ intake:</b> 18 <b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163  |                         |  |
| (TD - DTW X Multiplier = 1 Volume)   |                         | 80% Recovery (TD - DTW X 0.20 + DTW)         |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge) 80%= \_\_\_\_\_

| Time | Temp<br>(°/°F) | pH   | Cond<br>(mS (µS)) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or mL/min) | Volume<br>Removed<br>(gal (L)) | DO (mg/l) | ORP<br>(mv) | DTW   | Notes                |
|------|----------------|------|-------------------|--------------------|----------------------------------|--------------------------------|-----------|-------------|-------|----------------------|
| 928  | 21.4           | 6.20 | 932               | 18                 | 200                              | 0.6                            | 1.84      | 137.1       | 13.30 | Yellow Colored water |
| 931  | 21.7           | 6.19 | 926               | 16                 | ↓                                | 1.2                            | 1.84      | 137.3       | 13.30 | ↓                    |
| 934  | 21.9           | 6.19 | 894               | 15                 | ↓                                | 1.8                            | 1.90      | 138.1       | 13.30 | ↓                    |
| 937  | 21.8           | 6.18 | 888               | 15                 | ↓                                | 2.4                            | 1.86      | 138.9       | 13.30 | ↓                    |
| 940  | 21.8           | 6.19 | 881               | 15                 | ↓                                | 3.0                            | 1.84      | 139.7       | 13.30 | ↓                    |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |
|      |                |      |                   |                    |                                  |                                |           |             |       |                      |

|   |                  |                                     |
|---|------------------|-------------------------------------|
| Did well dewater? YES <input type="checkbox"/> <u>NO</u>                  |                  | Total volume removed: 3.0 (gal (L)) |
| Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other: |                  |                                     |
| Sample date: 9/14/16  | Sample time: 945 | DTW at sample: 13.30                |
| Sample ID: MW-FP6   | Lab: C&T         | Number of bottles: 5                |
| Analysis: VOC's, Metals, CrVI   |                  |                                     |
| Equipment blank ID @  | Field blank ID @ |                                     |
| Duplicate ID:   | Pre-purge DO:    | Post purge DO:                      |
| Fe2 <sup>+</sup> :  | Pre-purge ORP:   | Post purge ORP:                     |
| NAPL depth:   | Volume of NAPL:  | Volume removed: ml                  |

## Purging And Sampling Data Sheet

|   |  |                         |                                      |  |                           |
|---|--|-------------------------|--------------------------------------|--|---------------------------|
| <b>Job#:</b> C1-160914  |  | <b>Sampler:</b> J Caird |                                      | <b>Client:</b> The Source Group              |                           |
| <b>Well ID:</b> MW-FP7B   |  | <b>Date:</b> 9/14/16    |                                      | <b>Site:</b> Former Francis Plating, Oakland |                           |
| <b>Well diam:</b> 1/4" 1" <u>2"</u> 3" 4" 6" Other:   |  |                         | <b>DTW:</b> 12.63                    |  | <b>Total Depth:</b> 49.10 |
| <b>Purge equip:</b> ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other:  |  |                         |                                      |  |                           |
| <b>Tubing:</b> OD: <u>New</u> <del>Dedicated</del> NA   |  |                         |                                      |  |                           |
| <b>Purge method:</b> 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:  |  |                         |                                      |  |                           |
| <b>Pump depth/ intake:</b> 4.6' <b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163 |  |                         |                                      |  |                           |
| (TD - DTW X Multiplier = 1 Volume)  |  |                         | 80% Recovery (TD - DTW X 0.20 + DTW) |  |                           |

1 Volume = \_\_\_\_\_ X **3** = \_\_\_\_\_ (Total Purge) 80% = \_\_\_\_\_

| Time                  | Temp<br>(C / °F) | pH   | Cond<br>(mS <u>CS</u> ) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or mL/min) | Volume<br>Removed<br>(gal / L) | DO (mg/l)               | ORP<br>(mv) | DTW   | Notes |
|-----------------------|------------------|------|-------------------------|--------------------|----------------------------------|--------------------------------|-------------------------|-------------|-------|-------|
| 808                   | 20.0             | 7.19 | 354.7                   | 24                 | 2.00                             | 0.6                            | 2.65                    | 106.0       | 12.73 |       |
| 811<br><del>809</del> | 19.6             | 7.03 | 445.4                   | 14                 |                                  | 1.2                            | 1.96<br><del>2.09</del> | 104.6       | 12.73 |       |
| 814<br><del>807</del> | 19.7             | 6.94 | 419.4                   | 13                 |                                  | 1.8                            | 1.92                    | 100.8       | 12.73 |       |
| 817<br><del>810</del> | 19.8             | 6.92 | 410.8                   | 5                  |                                  | 2.4                            | 1.87                    | 98.5        | 12.73 |       |
| 820                   | 19.9             | 6.90 | 408.9                   | 4                  |                                  | 3.0                            | 1.74                    | 97.5        | 12.73 |       |
| 823                   | 19.9             | 6.89 | 407.0                   | 4                  |                                  | 3.6                            | 1.70                    | 96          | 12.73 |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |
|                       |                  |      |                         |                    |                                  |                                |                         |             |       |       |

|  |  |   |                      |
|--|--|---|----------------------|
| Did well dewater? YES <input type="checkbox"/> <u>NO</u>                             |  | Total volume removed: 3.6 (gal <u>L</u> ) |                      |
| Sample method: Disp Bailer <del>Ded. Tubing</del> <u>New Tubing</u> Ext. Port Other: |  |   |                      |
| Sample date: 9/14/16   |  | Sample time: 825                          | DTW at sample: 12.73 |
| Sample ID: MW-FP7B   |  | Lab: C&T                                  | Number of bottles: 5 |
| Analysis: VOC's, Metals, CrVI  |  |   |                      |
| Equipment blank ID @   |  | Field blank ID @                          |                      |
| Duplicate ID:  |  | Pre-purge DO:                             | Post purge DO:       |
| Fe2 <sup>+</sup> :   |  | Pre-purge ORP:                            | Post purge ORP:      |
| NAPL depth:  |  | Volume of NAPL:                           | Volume removed: ml   |

## Purging And Sampling Data Sheet

|   |  |                         |   |  |                           |
|---|--|-------------------------|---|--|---------------------------|
| <b>Job#:</b> C1-160914  |  | <b>Sampler:</b> J Caird |   | <b>Client:</b> The Source Group              |                           |
| <b>Well ID:</b> MW-9  |  | <b>Date:</b> 9/14/16    |   | <b>Site:</b> Former Francis Plating, Oakland |                           |
| <b>Well diam:</b> 1/4" 1" 2" 3" <u>4"</u> 6" Other:   |  |                         | <b>DTW:</b> 13.11   |  | <b>Total Depth:</b> 19.00 |
| <b>Purge equip:</b> ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System<br>disp bailer teflon bailer other: <b>Tubing:</b> OD: <u>New</u> Dedicated NA |  |                         |   |  |                           |
| <b>Purge method:</b> 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:  |  |                         |   |  |                           |
| <b>Pump depth/ intake:</b> 16'  |  |                         | <b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163 |  |                           |
| (TD - DTW X Multiplier = 1 Volume)  |  |                         | 80% Recovery (TD - DTW X 0.20 + DTW)  |  |                           |

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)                      80% = \_\_\_\_\_

| Time | Temp<br>(°C / °F) | pH   | Cond<br>(mS/cm) | Turbidity<br>(NTU) | Purge<br>Rate (gal<br>or mL/min) | Volume<br>Removed<br>(gal/L) | DO (mg/l) | ORP<br>(mv) | DTW   | Notes                 |
|------|-------------------|------|-----------------|--------------------|----------------------------------|------------------------------|-----------|-------------|-------|-----------------------|
| 1001 | 22.4              | 6.20 | 1429            | 25                 | 200                              | 0.6                          | 1.72      | 145.6       | 13.15 | Yellow Color / slight |
| 1004 | 22.0              | 6.16 | 1429            | 10                 |                                  | 1.2                          | 1.43      | 145.2       | 13.15 |                       |
| 1007 | 22.2              | 6.15 | 1428            | 6                  |                                  | 1.8                          | 1.42      | 145.1       | 13.15 |                       |
| 1010 | 22.1              | 6.15 | 1426            | 5                  |                                  | 2.4                          | 1.45      | 145.1       | 13.15 |                       |
| 1013 | 22.1              | 6.15 | 1425            | 5                  |                                  | 3.0                          | 1.47      | 145.2       | 13.15 |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |
|      |                   |      |                 |                    |                                  |                              |           |             |       |                       |

|   |  |                   |                                   |                     |                      |
|---|--|-------------------|-----------------------------------|---------------------|----------------------|
| Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/> |  |                   | Total volume removed: 3.0 (gal/L) |                     |                      |
| Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other:       |  |                   |                                   |                     |                      |
| Sample date: 9/14/16  |  | Sample time: 1015 |                                   | DTW at sample: 1315 |                      |
| Sample ID: MW-9   |  |                   | Lab: C&T                          |                     | Number of bottles: 5 |
| Analysis: VOC's, Metals, CrVI   |  |                   |                                   |                     |                      |
| Equipment blank ID @  |  |                   | Field blank ID @                  |                     |                      |
| Duplicate ID:   |  |                   | Pre-purge DO:                     |                     | Post purge DO:       |
| Fe2 <sup>+</sup> :  |  |                   | Pre-purge ORP:                    |                     | Post purge ORP:      |
| NAPL depth:   |  | Volume of NAPL:   |                                   | Volume removed: ml  |                      |



**APPENDIX C**  
**LABORATORY ANALYTICAL DATA**



Curtis & Tompkins, Ltd.  
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 280960
ANALYTICAL REPORT

The Source Group, Inc.
3478 Buskirk Ave
Pleasant Hill, CA 94523

Project : 06-FP
Location : Former Francis Plating
Level : II

Table with 2 columns: Sample ID, Lab ID. Rows include TB, MW-FP7B, MW-FP2, MW-FP6, MW-9, MW-FP1, MW-FP4B, MW-FP4A, MW-FP3, MW-FP5.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Handwritten signature

Signature: \_\_\_\_\_

Date: 09/28/2016

Dina Ali
Project Manager
dina.ali@ctberk.com

**CASE NARRATIVE**

Laboratory number: 280960  
Client: The Source Group, Inc.  
Project: 06-FP  
Location: Former Francis Plating  
Request Date: 09/14/16  
Samples Received: 09/14/16

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 09/14/16. The samples were received on ice and intact, directly from the field.

**Volatile Organics by GC/MS (EPA 8260B):**

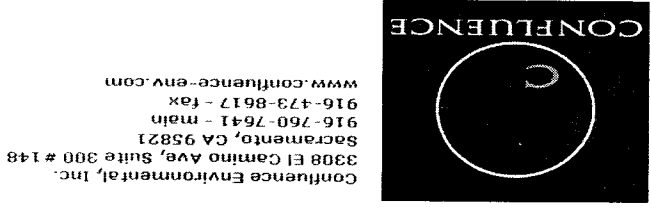
No analytical problems were encountered.

**Metals (EPA 6010B and EPA 7470A):**

No analytical problems were encountered.

**Hexavalent Chromium by Ion Chromatograph (EPA 7199):**

No analytical problems were encountered.



Confluence Environmental, Inc.  
3308 El Camino Ave, Suite 300 # 148  
Sacramento, CA 95821  
916-760-7641 - main  
916-473-8617 - fax  
www.confluence-env.com

## Chain of Custody

**Project Name:** Former Francis Plating - Frog Pond Site, Oakland  
**Job Number:** C1-16 0914  
**TAT:** STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

X80960

|  |  |  |
|--|--|--|
| Lab: Curtis & Tompkins                         | Site Address: 751-785 7th St. Oakland  | Confluence PM: Jason Brown               |
| Address: 2323 Fifth Street, Berkeley, CA 94710 | California Global ID No.: SL0600130797   | Phone / Fax: 916-760-7641 / 916-473-8617 |
| Contact: Mike Dalquist                         | Include EDF w/ Report: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Confluence Log Code: CESC                |
| Phone / Fax: 510-486-0900                      | Consultant / PM: The Source Group / Adam Brown   | Report to: The Source Group              |
|  | Phone / Fax: 530-906-4545  | Invoice to: The Source Group             |

Requested Analysis

| Sample ID | Time | Date    | Matrix | Laboratory No. | No. of Containers | Unpreserved | Preservative                   |                  |     |      |              |                           | Notes and Comments |                              |  |  |
|-----------|------|---------|--------|----------------|-------------------|-------------|--------------------------------|------------------|-----|------|--------------|---------------------------|--------------------|------------------------------|--|--|
|           |      |         |        |                |                   |             | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | VOC's (8260) | Title 22 Metals * (6010B) |                    | Hexavalent Chromium * (7199) |  |  |
| 1         |      | 9/14/16 | X      |                | 3                 |             |                                |                  |     |      |              |                           |                    |                              |  |  |
| 2         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 3         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 4         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 5         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 6         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 7         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 8         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 9         |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 10        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 11        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 12        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 13        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 14        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 15        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |
| 16        |      | 9/14/16 | X      |                | 5                 | 1           |                                |                  |     |      |              |                           |                    |                              |  |  |

|                           |  |  |                 |  |  |                               |  |  |                 |  |  |
|---------------------------|--|--|-----------------|--|--|-------------------------------|--|--|-----------------|--|--|
| Shipments Method:         |  |  | Shipments Date: |  |  | Shipments Company:            |  |  | Shipments Name: |  |  |
|                           |  |  |                 |  |  | Confluence Environmental      |  |  | Jeremy Carol    |  |  |
| Accepted By / Affiliation |  |  | Date            |  |  | Relinquished By / Affiliation |  |  | Date            |  |  |
|                           |  |  |                 |  |  |                               |  |  | 9/14/16 13:55   |  |  |
| Date                      |  |  | Time            |  |  | Date                          |  |  | Time            |  |  |
|                           |  |  |                 |  |  |                               |  |  | 9/14/16 13:55   |  |  |

Special Instructions: \*Title 22 Metals samples field filtered \*\*J to MDL for CRVI

**COOLER RECEIPT CHECKLIST**



Curtis & Tompkins, Ltd.

Login # 280960 Date Received 9/14/16 Number of coolers 1  
 Client The Source Group Project Former Francis Plating  
 Date Opened 9/14 By (print) CB (sign) Chambers  
 Date Logged in ↓ By (print) DTN (sign) Arguyen  
 Date Labeled ↓ By (print) CB (sign) Chambers

1. Did cooler come with a shipping slip (airbill, etc) \_\_\_\_\_ YES  NO
- Shipping info \_\_\_\_\_
- 2A. Were custody seals present? ....  YES (circle) on cooler on samples  NO  
 How many \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_
- 2B. Were custody seals intact upon arrival? \_\_\_\_\_ YES NO  N/A
3. Were custody papers dry and intact when received? \_\_\_\_\_  YES NO
4. Were custody papers filled out properly (ink, signed, etc)? \_\_\_\_\_  YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) \_\_\_\_\_  YES NO
6. Indicate the packing in cooler: (if other, describe) \_\_\_\_\_  
 Bubble Wrap  Foam blocks  Bags  None  
 Cloth material  Cardboard  Styrofoam  Paper towels

7. Temperature documentation: \* Notify PM if temperature exceeds 6°C  
 Type of ice used:  Wet  Blue/Gel  None Temp(°C) 4.2  
 Temperature blank(s) included?  Thermometer# \_\_\_\_\_  IR Gun# A  
 Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? \_\_\_\_\_ YES  NO  
 If YES, what time were they transferred to freezer? \_\_\_\_\_
9. Did all bottles arrive unbroken/unopened? \_\_\_\_\_  YES NO
10. Are there any missing / extra samples? \_\_\_\_\_ YES  NO
11. Are samples in the appropriate containers for indicated tests? \_\_\_\_\_  YES NO
12. Are sample labels present, in good condition and complete? \_\_\_\_\_  YES NO
13. Do the sample labels agree with custody papers? \_\_\_\_\_  YES NO
14. Was sufficient amount of sample sent for tests requested? \_\_\_\_\_  YES NO
15. Are the samples appropriately preserved? \_\_\_\_\_  YES NO N/A
16. Did you check preservatives for all bottles for each sample? \_\_\_\_\_  YES NO N/A
17. Did you document your preservative check? (pH strip lot# 80 BDH 1761) \_\_\_\_\_  YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? \_\_\_\_\_ YES NO  N/A
19. Did you change the hold time in LIMS for preserved terracores? \_\_\_\_\_ YES NO  N/A
20. Are bubbles > 6mm absent in VOA samples? \_\_\_\_\_ YES  NO N/A
21. Was the client contacted concerning this sample delivery? \_\_\_\_\_ YES  NO  
 If YES, Who was called? \_\_\_\_\_ By \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS

20. 3/3 VOAs received w/ bubble > 6mm for sample 061

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Curtis & Tompkins Sample Preservation for 280960

| Sample | pH: <2 | >9  | >12 | Other |
|--------|--------|-----|-----|-------|
| -002a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -003a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -004a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [ ]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -005a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -006a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |

| Sample | pH: <2 | >9  | >12 | Other |
|--------|--------|-----|-----|-------|
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -007a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -008a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -009a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |
| -010a  | [ ]    | [ ] | [ ] | _____ |
| b      | [ ]    | [ ] | [ ] | _____ |
| c      | [ ]    | [ ] | [ ] | _____ |
| d      | [X]    | [ ] | [ ] | _____ |
| e      | [ ]    | [ ] | [ ] | _____ |

Analyst: CB  
 Date: 9/19/16  
 Page 1 of 1





Client Sample ID : MW-9

Laboratory Sample ID :

280960-005

| Analyte                | Result | Flags | RL    | Units | Basis   | IDF   | Method    | Prep Method |
|------------------------|--------|-------|-------|-------|---------|-------|-----------|-------------|
| MTBE                   | 4.9    |       | 0.5   | ug/L  | As Recd | 1.000 | EPA 8260B | EPA 5030B   |
| cis-1,2-Dichloroethene | 13     |       | 0.5   | ug/L  | As Recd | 1.000 | EPA 8260B | EPA 5030B   |
| Trichloroethene        | 22     |       | 0.5   | ug/L  | As Recd | 1.000 | EPA 8260B | EPA 5030B   |
| Barium                 | 160    |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Chromium               | 9,100  |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Nickel                 | 33     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Silver                 | 8.1    |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Hexavalent Chromium    | 9,000  |       | 5,000 | ug/L  | TOTAL   | 10000 | EPA 7199  | METHOD      |

Client Sample ID : MW-FP1

Laboratory Sample ID :

280960-006

| Analyte             | Result | Flags | RL   | Units | Basis | IDF   | Method    | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Barium              | 39     |       | 5.0  | ug/L  | DISS. | 1.000 | EPA 6010B | METHOD      |
| Chromium            | 7.5    |       | 5.0  | ug/L  | DISS. | 1.000 | EPA 6010B | METHOD      |
| Nickel              | 11     |       | 5.0  | ug/L  | DISS. | 1.000 | EPA 6010B | METHOD      |
| Hexavalent Chromium | 7.1    |       | 0.50 | ug/L  | TOTAL | 1.000 | EPA 7199  | METHOD      |

Client Sample ID : MW-FP4B

Laboratory Sample ID :

280960-007

| Analyte             | Result | Flags | RL   | Units | Basis   | IDF   | Method    | Prep Method |
|---------------------|--------|-------|------|-------|---------|-------|-----------|-------------|
| Chloroform          | 3.3    |       | 0.5  | ug/L  | As Recd | 1.000 | EPA 8260B | EPA 5030B   |
| Barium              | 29     |       | 5.0  | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Chromium            | 10     |       | 5.0  | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Vanadium            | 9.6    |       | 5.0  | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Zinc                | 300    |       | 20   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Hexavalent Chromium | 9.6    |       | 0.50 | ug/L  | TOTAL   | 1.000 | EPA 7199  | METHOD      |

Client Sample ID : MW-FP4A

Laboratory Sample ID :

280960-008

| Analyte                  | Result | Flags | RL    | Units | Basis   | IDF   | Method    | Prep Method |
|--------------------------|--------|-------|-------|-------|---------|-------|-----------|-------------|
| 1,1-Dichloroethene       | 1.8    |       | 1.0   | ug/L  | As Recd | 2.000 | EPA 8260B | EPA 5030B   |
| trans-1,2-Dichloroethene | 8.7    |       | 1.0   | ug/L  | As Recd | 2.000 | EPA 8260B | EPA 5030B   |
| cis-1,2-Dichloroethene   | 170    |       | 1.0   | ug/L  | As Recd | 2.000 | EPA 8260B | EPA 5030B   |
| Trichloroethene          | 140    |       | 1.0   | ug/L  | As Recd | 2.000 | EPA 8260B | EPA 5030B   |
| Barium                   | 97     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Chromium                 | 12,000 |       | 500   | ug/L  | DISS.   | 100.0 | EPA 6010B | METHOD      |
| Cobalt                   | 7.1    |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Copper                   | 20     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Molybdenum               | 14     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Nickel                   | 130    |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Zinc                     | 110    |       | 20    | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Hexavalent Chromium      | 12,000 |       | 5,000 | ug/L  | TOTAL   | 10000 | EPA 7199  | METHOD      |

Client Sample ID : MW-FP3

Laboratory Sample ID :

280960-009

| Analyte             | Result | Flags | RL  | Units | Basis | IDF   | Method    | Prep Method |
|---------------------|--------|-------|-----|-------|-------|-------|-----------|-------------|
| Barium              | 70     |       | 5.0 | ug/L  | DISS. | 1.000 | EPA 6010B | METHOD      |
| Chromium            | 200    |       | 5.0 | ug/L  | DISS. | 1.000 | EPA 6010B | METHOD      |
| Nickel              | 20     |       | 5.0 | ug/L  | DISS. | 1.000 | EPA 6010B | METHOD      |
| Hexavalent Chromium | 200    |       | 13  | ug/L  | TOTAL | 25.00 | EPA 7199  | METHOD      |

Client Sample ID : MW-FP5

Laboratory Sample ID :

280960-010

| Analyte             | Result | Flags | RL    | Units | Basis   | IDF   | Method    | Prep Method |
|---------------------|--------|-------|-------|-------|---------|-------|-----------|-------------|
| Trichloroethene     | 2.7    |       | 0.5   | ug/L  | As Recd | 1.000 | EPA 8260B | EPA 5030B   |
| Barium              | 56     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Chromium            | 20,000 |       | 500   | ug/L  | DISS.   | 100.0 | EPA 6010B | METHOD      |
| Nickel              | 24     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Silver              | 17     |       | 5.0   | ug/L  | DISS.   | 1.000 | EPA 6010B | METHOD      |
| Hexavalent Chromium | 30,000 |       | 5,000 | ug/L  | TOTAL   | 10000 | EPA 7199  | METHOD      |

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | TB                     | Batch#:   | 239213                 |
| Lab ID:   | 280960-001             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/18/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | TB                     | Batch#:   | 239213                 |
| Lab ID:   | 280960-001             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/18/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 98   | 80-128 |
| 1,2-Dichloroethane-d4 | 112  | 75-139 |
| Toluene-d8            | 97   | 80-120 |
| Bromofluorobenzene    | 96   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP7B                | Batch#:   | 239213                 |
| Lab ID:   | 280960-002             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/18/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | 10     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP7B                | Batch#:   | 239213                 |
| Lab ID:   | 280960-002             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/18/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 99   | 80-128 |
| 1,2-Dichloroethane-d4 | 113  | 75-139 |
| Toluene-d8            | 99   | 80-120 |
| Bromofluorobenzene    | 96   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP2                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-003             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP2                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-003             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 100  | 80-128 |
| 1,2-Dichloroethane-d4 | 96   | 75-139 |
| Toluene-d8            | 96   | 80-120 |
| Bromofluorobenzene    | 98   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit



### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP6                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-004             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | 8.9    | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP6                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-004             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 102  | 80-128 |
| 1,2-Dichloroethane-d4 | 98   | 75-139 |
| Toluene-d8            | 99   | 80-120 |
| Bromofluorobenzene    | 99   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-9                   | Batch#:   | 239208                 |
| Lab ID:   | 280960-005             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | 4.9    | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | 13     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | 22     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-9                   | Batch#:   | 239208                 |
| Lab ID:   | 280960-005             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 102  | 80-128 |
| 1,2-Dichloroethane-d4 | 96   | 75-139 |
| Toluene-d8            | 98   | 80-120 |
| Bromofluorobenzene    | 97   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP1                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-006             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP1                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-006             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 100  | 80-128 |
| 1,2-Dichloroethane-d4 | 99   | 75-139 |
| Toluene-d8            | 98   | 80-120 |
| Bromofluorobenzene    | 99   | 80-120 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP4B                | Batch#:   | 239208                 |
| Lab ID:   | 280960-007             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | 3.3    | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP4B                | Batch#:   | 239208                 |
| Lab ID:   | 280960-007             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 101  | 80-128 |
| 1,2-Dichloroethane-d4 | 95   | 75-139 |
| Toluene-d8            | 99   | 80-120 |
| Bromofluorobenzene    | 98   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit



### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP4A                | Batch#:   | 239208                 |
| Lab ID:   | 280960-008             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 2.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 2.0 |
| Chloromethane             | ND     | 2.0 |
| Vinyl Chloride            | ND     | 1.0 |
| Bromomethane              | ND     | 2.0 |
| Chloroethane              | ND     | 2.0 |
| Trichlorofluoromethane    | ND     | 2.0 |
| Acetone                   | ND     | 20  |
| Freon 113                 | ND     | 10  |
| 1,1-Dichloroethene        | 1.8    | 1.0 |
| Methylene Chloride        | ND     | 20  |
| Carbon Disulfide          | ND     | 1.0 |
| MTBE                      | ND     | 1.0 |
| trans-1,2-Dichloroethene  | 8.7    | 1.0 |
| Vinyl Acetate             | ND     | 20  |
| 1,1-Dichloroethane        | ND     | 1.0 |
| 2-Butanone                | ND     | 20  |
| cis-1,2-Dichloroethene    | 170    | 1.0 |
| 2,2-Dichloropropane       | ND     | 1.0 |
| Chloroform                | ND     | 1.0 |
| Bromochloromethane        | ND     | 1.0 |
| 1,1,1-Trichloroethane     | ND     | 1.0 |
| 1,1-Dichloropropene       | ND     | 1.0 |
| Carbon Tetrachloride      | ND     | 1.0 |
| 1,2-Dichloroethane        | ND     | 1.0 |
| Benzene                   | ND     | 1.0 |
| Trichloroethene           | 140    | 1.0 |
| 1,2-Dichloropropane       | ND     | 1.0 |
| Bromodichloromethane      | ND     | 1.0 |
| Dibromomethane            | ND     | 1.0 |
| 4-Methyl-2-Pentanone      | ND     | 20  |
| cis-1,3-Dichloropropene   | ND     | 1.0 |
| Toluene                   | ND     | 1.0 |
| trans-1,3-Dichloropropene | ND     | 1.0 |
| 1,1,2-Trichloroethane     | ND     | 1.0 |
| 2-Hexanone                | ND     | 20  |
| 1,3-Dichloropropane       | ND     | 1.0 |
| Tetrachloroethene         | ND     | 1.0 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP4A                | Batch#:   | 239208                 |
| Lab ID:   | 280960-008             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 2.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 1.0 |
| 1,2-Dibromoethane           | ND     | 1.0 |
| Chlorobenzene               | ND     | 1.0 |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0 |
| Ethylbenzene                | ND     | 1.0 |
| m,p-Xylenes                 | ND     | 1.0 |
| o-Xylene                    | ND     | 1.0 |
| Styrene                     | ND     | 1.0 |
| Bromoform                   | ND     | 2.0 |
| Isopropylbenzene            | ND     | 1.0 |
| 1,1,2,2-Tetrachloroethane   | ND     | 1.0 |
| 1,2,3-Trichloropropane      | ND     | 1.0 |
| Propylbenzene               | ND     | 1.0 |
| Bromobenzene                | ND     | 1.0 |
| 1,3,5-Trimethylbenzene      | ND     | 1.0 |
| 2-Chlorotoluene             | ND     | 1.0 |
| 4-Chlorotoluene             | ND     | 1.0 |
| tert-Butylbenzene           | ND     | 1.0 |
| 1,2,4-Trimethylbenzene      | ND     | 1.0 |
| sec-Butylbenzene            | ND     | 1.0 |
| para-Isopropyl Toluene      | ND     | 1.0 |
| 1,3-Dichlorobenzene         | ND     | 1.0 |
| 1,4-Dichlorobenzene         | ND     | 1.0 |
| n-Butylbenzene              | ND     | 1.0 |
| 1,2-Dichlorobenzene         | ND     | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND     | 4.0 |
| 1,2,4-Trichlorobenzene      | ND     | 1.0 |
| Hexachlorobutadiene         | ND     | 1.0 |
| Naphthalene                 | ND     | 1.0 |
| 1,2,3-Trichlorobenzene      | ND     | 1.0 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 102  | 80-128 |
| 1,2-Dichloroethane-d4 | 96   | 75-139 |
| Toluene-d8            | 96   | 80-120 |
| Bromofluorobenzene    | 98   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP3                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-009             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP3                 | Batch#:   | 239208                 |
| Lab ID:   | 280960-009             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/17/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 102  | 80-128 |
| 1,2-Dichloroethane-d4 | 101  | 75-139 |
| Toluene-d8            | 95   | 80-120 |
| Bromofluorobenzene    | 99   | 80-120 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP5                 | Batch#:   | 239213                 |
| Lab ID:   | 280960-010             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/18/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | 2.7    | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#: | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID: | MW-FP5                 | Batch#:   | 239213                 |
| Lab ID:   | 280960-010             | Sampled:  | 09/14/16               |
| Matrix:   | Water                  | Received: | 09/14/16               |
| Units:    | ug/L                   | Analyzed: | 09/18/16               |
| Diln Fac: | 1.000                  |           |                        |

| Analyte                     | Result | RL  |
|-----------------------------|--------|-----|
| Dibromochloromethane        | ND     | 0.5 |
| 1,2-Dibromoethane           | ND     | 0.5 |
| Chlorobenzene               | ND     | 0.5 |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 |
| Ethylbenzene                | ND     | 0.5 |
| m,p-Xylenes                 | ND     | 0.5 |
| o-Xylene                    | ND     | 0.5 |
| Styrene                     | ND     | 0.5 |
| Bromoform                   | ND     | 1.0 |
| Isopropylbenzene            | ND     | 0.5 |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 |
| 1,2,3-Trichloropropane      | ND     | 0.5 |
| Propylbenzene               | ND     | 0.5 |
| Bromobenzene                | ND     | 0.5 |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |
| 2-Chlorotoluene             | ND     | 0.5 |
| 4-Chlorotoluene             | ND     | 0.5 |
| tert-Butylbenzene           | ND     | 0.5 |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |
| sec-Butylbenzene            | ND     | 0.5 |
| para-Isopropyl Toluene      | ND     | 0.5 |
| 1,3-Dichlorobenzene         | ND     | 0.5 |
| 1,4-Dichlorobenzene         | ND     | 0.5 |
| n-Butylbenzene              | ND     | 0.5 |
| 1,2-Dichlorobenzene         | ND     | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |
| Hexachlorobutadiene         | ND     | 0.5 |
| Naphthalene                 | ND     | 0.5 |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 98   | 80-128 |
| 1,2-Dichloroethane-d4 | 113  | 75-139 |
| Toluene-d8            | 96   | 80-120 |
| Bromofluorobenzene    | 95   | 80-120 |

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

| Purgeable Organics by GC/MS |                        |           |                        |
|-----------------------------|------------------------|-----------|------------------------|
| Lab #:                      | 280960                 | Location: | Former Francis Plating |
| Client:                     | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                   | 06-FP                  | Analysis: | EPA 8260B              |
| Type:                       | BLANK                  | Diln Fac: | 1.000                  |
| Lab ID:                     | QC851963               | Batch#:   | 239208                 |
| Matrix:                     | Water                  | Analyzed: | 09/17/16               |
| Units:                      | ug/L                   |           |                        |

| Analyte                   | Result | RL  |
|---------------------------|--------|-----|
| Freon 12                  | ND     | 1.0 |
| Chloromethane             | ND     | 1.0 |
| Vinyl Chloride            | ND     | 0.5 |
| Bromomethane              | ND     | 1.0 |
| Chloroethane              | ND     | 1.0 |
| Trichlorofluoromethane    | ND     | 1.0 |
| Acetone                   | ND     | 10  |
| Freon 113                 | ND     | 5.0 |
| 1,1-Dichloroethene        | ND     | 0.5 |
| Methylene Chloride        | ND     | 10  |
| Carbon Disulfide          | ND     | 0.5 |
| MTBE                      | ND     | 0.5 |
| trans-1,2-Dichloroethene  | ND     | 0.5 |
| Vinyl Acetate             | ND     | 10  |
| 1,1-Dichloroethane        | ND     | 0.5 |
| 2-Butanone                | ND     | 10  |
| cis-1,2-Dichloroethene    | ND     | 0.5 |
| 2,2-Dichloropropane       | ND     | 0.5 |
| Chloroform                | ND     | 0.5 |
| Bromochloromethane        | ND     | 0.5 |
| 1,1,1-Trichloroethane     | ND     | 0.5 |
| 1,1-Dichloropropene       | ND     | 0.5 |
| Carbon Tetrachloride      | ND     | 0.5 |
| 1,2-Dichloroethane        | ND     | 0.5 |
| Benzene                   | ND     | 0.5 |
| Trichloroethene           | ND     | 0.5 |
| 1,2-Dichloropropane       | ND     | 0.5 |
| Bromodichloromethane      | ND     | 0.5 |
| Dibromomethane            | ND     | 0.5 |
| 4-Methyl-2-Pentanone      | ND     | 10  |
| cis-1,3-Dichloropropene   | ND     | 0.5 |
| Toluene                   | ND     | 0.5 |
| trans-1,3-Dichloropropene | ND     | 0.5 |
| 1,1,2-Trichloroethane     | ND     | 0.5 |
| 2-Hexanone                | ND     | 10  |
| 1,3-Dichloropropane       | ND     | 0.5 |
| Tetrachloroethene         | ND     | 0.5 |

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

| <b>Purgeable Organics by GC/MS</b> |                        |           |                        |
|------------------------------------|------------------------|-----------|------------------------|
| Lab #:                             | 280960                 | Location: | Former Francis Plating |
| Client:                            | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                          | 06-FP                  | Analysis: | EPA 8260B              |
| Type:                              | BLANK                  | Diln Fac: | 1.000                  |
| Lab ID:                            | QC851963               | Batch#:   | 239208                 |
| Matrix:                            | Water                  | Analyzed: | 09/17/16               |
| Units:                             | ug/L                   |           |                        |

| <b>Analyte</b>              | <b>Result</b> | <b>RL</b> |
|-----------------------------|---------------|-----------|
| Dibromochloromethane        | ND            | 0.5       |
| 1,2-Dibromoethane           | ND            | 0.5       |
| Chlorobenzene               | ND            | 0.5       |
| 1,1,1,2-Tetrachloroethane   | ND            | 0.5       |
| Ethylbenzene                | ND            | 0.5       |
| m,p-Xylenes                 | ND            | 0.5       |
| o-Xylene                    | ND            | 0.5       |
| Styrene                     | ND            | 0.5       |
| Bromoform                   | ND            | 1.0       |
| Isopropylbenzene            | ND            | 0.5       |
| 1,1,2,2-Tetrachloroethane   | ND            | 0.5       |
| 1,2,3-Trichloropropane      | ND            | 0.5       |
| Propylbenzene               | ND            | 0.5       |
| Bromobenzene                | ND            | 0.5       |
| 1,3,5-Trimethylbenzene      | ND            | 0.5       |
| 2-Chlorotoluene             | ND            | 0.5       |
| 4-Chlorotoluene             | ND            | 0.5       |
| tert-Butylbenzene           | ND            | 0.5       |
| 1,2,4-Trimethylbenzene      | ND            | 0.5       |
| sec-Butylbenzene            | ND            | 0.5       |
| para-Isopropyl Toluene      | ND            | 0.5       |
| 1,3-Dichlorobenzene         | ND            | 0.5       |
| 1,4-Dichlorobenzene         | ND            | 0.5       |
| n-Butylbenzene              | ND            | 0.5       |
| 1,2-Dichlorobenzene         | ND            | 0.5       |
| 1,2-Dibromo-3-Chloropropane | ND            | 2.0       |
| 1,2,4-Trichlorobenzene      | ND            | 0.5       |
| Hexachlorobutadiene         | ND            | 0.5       |
| Naphthalene                 | ND            | 0.5       |
| 1,2,3-Trichlorobenzene      | ND            | 0.5       |

| <b>Surrogate</b>      | <b>%REC</b> | <b>Limits</b> |
|-----------------------|-------------|---------------|
| Dibromofluoromethane  | 98          | 80-128        |
| 1,2-Dichloroethane-d4 | 92          | 75-139        |
| Toluene-d8            | 97          | 80-120        |
| Bromofluorobenzene    | 98          | 80-120        |

ND= Not Detected

RL= Reporting Limit



## Batch QC Report

| Purgeable Organics by GC/MS |                        |           |                        |
|-----------------------------|------------------------|-----------|------------------------|
| Lab #:                      | 280960                 | Location: | Former Francis Plating |
| Client:                     | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                   | 06-FP                  | Analysis: | EPA 8260B              |
| Type:                       | LCS                    | Diln Fac: | 1.000                  |
| Lab ID:                     | QC851970               | Batch#:   | 239208                 |
| Matrix:                     | Water                  | Analyzed: | 09/17/16               |
| Units:                      | ug/L                   |           |                        |

| Analyte            | Spiked | Result | %REC | Limits |
|--------------------|--------|--------|------|--------|
| 1,1-Dichloroethene | 12.50  | 13.24  | 106  | 66-135 |
| Benzene            | 12.50  | 12.65  | 101  | 80-123 |
| Trichloroethene    | 12.50  | 12.72  | 102  | 80-123 |
| Toluene            | 12.50  | 12.38  | 99   | 80-121 |
| Chlorobenzene      | 12.50  | 12.37  | 99   | 80-123 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 97   | 80-128 |
| 1,2-Dichloroethane-d4 | 92   | 75-139 |
| Toluene-d8            | 95   | 80-120 |
| Bromofluorobenzene    | 100  | 80-120 |

**Batch QC Report**

| Purgeable Organics by GC/MS |                        |           |                        |
|-----------------------------|------------------------|-----------|------------------------|
| Lab #:                      | 280960                 | Location: | Former Francis Plating |
| Client:                     | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                   | 06-FP                  | Analysis: | EPA 8260B              |
| Field ID:                   | ZZZZZZZZZZ             | Diln Fac: | 1.000                  |
| MSS Lab ID:                 | 280900-018             | Batch#:   | 239208                 |
| Matrix:                     | Water                  | Sampled:  | 09/13/16               |
| Units:                      | ug/L                   | Received: | 09/13/16               |

Type: MS Analyzed: 09/17/16  
 Lab ID: QC851977

| Analyte            | MSS Result | Spiked | Result | %REC | Limits |
|--------------------|------------|--------|--------|------|--------|
| 1,1-Dichloroethene | <0.1117    | 25.00  | 27.45  | 110  | 73-129 |
| Benzene            | <0.1000    | 25.00  | 25.67  | 103  | 80-120 |
| Trichloroethene    | <0.1000    | 25.00  | 25.70  | 103  | 73-123 |
| Toluene            | <0.1000    | 25.00  | 25.10  | 100  | 80-120 |
| Chlorobenzene      | <0.1000    | 25.00  | 24.80  | 99   | 80-120 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 100  | 80-128 |
| 1,2-Dichloroethane-d4 | 99   | 75-139 |
| Toluene-d8            | 96   | 80-120 |
| Bromofluorobenzene    | 98   | 80-120 |

Type: MSD Analyzed: 09/18/16  
 Lab ID: QC851978

| Analyte            | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------------|--------|--------|------|--------|-----|-----|
| 1,1-Dichloroethene | 25.00  | 26.44  | 106  | 73-129 | 4   | 25  |
| Benzene            | 25.00  | 23.45  | 94   | 80-120 | 9   | 20  |
| Trichloroethene    | 25.00  | 24.00  | 96   | 73-123 | 7   | 20  |
| Toluene            | 25.00  | 23.97  | 96   | 80-120 | 5   | 21  |
| Chlorobenzene      | 25.00  | 23.71  | 95   | 80-120 | 4   | 24  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 102  | 80-128 |
| 1,2-Dichloroethane-d4 | 95   | 75-139 |
| Toluene-d8            | 97   | 80-120 |
| Bromofluorobenzene    | 98   | 80-120 |

RPD= Relative Percent Difference

## Batch QC Report

| Purgeable Organics by GC/MS |                        |           |                        |
|-----------------------------|------------------------|-----------|------------------------|
| Lab #:                      | 280960                 | Location: | Former Francis Plating |
| Client:                     | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                   | 06-FP                  | Analysis: | EPA 8260B              |
| Type:                       | LCS                    | Diln Fac: | 1.000                  |
| Lab ID:                     | QC851986               | Batch#:   | 239213                 |
| Matrix:                     | Water                  | Analyzed: | 09/18/16               |
| Units:                      | ug/L                   |           |                        |

| Analyte            | Spiked | Result | %REC | Limits |
|--------------------|--------|--------|------|--------|
| 1,1-Dichloroethene | 12.50  | 11.89  | 95   | 66-135 |
| Benzene            | 12.50  | 12.82  | 103  | 80-123 |
| Trichloroethene    | 12.50  | 12.00  | 96   | 80-123 |
| Toluene            | 12.50  | 12.64  | 101  | 80-121 |
| Chlorobenzene      | 12.50  | 12.50  | 100  | 80-123 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 97   | 80-128 |
| 1,2-Dichloroethane-d4 | 105  | 75-139 |
| Toluene-d8            | 98   | 80-120 |
| Bromofluorobenzene    | 96   | 80-120 |

**Batch QC Report**

| <b>Purgeable Organics by GC/MS</b> |                        |           |                        |
|------------------------------------|------------------------|-----------|------------------------|
| Lab #:                             | 280960                 | Location: | Former Francis Plating |
| Client:                            | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                          | 06-FP                  | Analysis: | EPA 8260B              |
| Type:                              | BLANK                  | Diln Fac: | 1.000                  |
| Lab ID:                            | QC851987               | Batch#:   | 239213                 |
| Matrix:                            | Water                  | Analyzed: | 09/18/16               |
| Units:                             | ug/L                   |           |                        |

| <b>Analyte</b>            | <b>Result</b> | <b>RL</b> |
|---------------------------|---------------|-----------|
| Freon 12                  | ND            | 1.0       |
| Chloromethane             | ND            | 1.0       |
| Vinyl Chloride            | ND            | 0.5       |
| Bromomethane              | ND            | 1.0       |
| Chloroethane              | ND            | 1.0       |
| Trichlorofluoromethane    | ND            | 1.0       |
| Acetone                   | ND            | 10        |
| Freon 113                 | ND            | 5.0       |
| 1,1-Dichloroethene        | ND            | 0.5       |
| Methylene Chloride        | ND            | 10        |
| Carbon Disulfide          | ND            | 0.5       |
| MTBE                      | ND            | 0.5       |
| trans-1,2-Dichloroethene  | ND            | 0.5       |
| Vinyl Acetate             | ND            | 10        |
| 1,1-Dichloroethane        | ND            | 0.5       |
| 2-Butanone                | ND            | 10        |
| cis-1,2-Dichloroethene    | ND            | 0.5       |
| 2,2-Dichloropropane       | ND            | 0.5       |
| Chloroform                | ND            | 0.5       |
| Bromochloromethane        | ND            | 0.5       |
| 1,1,1-Trichloroethane     | ND            | 0.5       |
| 1,1-Dichloropropene       | ND            | 0.5       |
| Carbon Tetrachloride      | ND            | 0.5       |
| 1,2-Dichloroethane        | ND            | 0.5       |
| Benzene                   | ND            | 0.5       |
| Trichloroethene           | ND            | 0.5       |
| 1,2-Dichloropropane       | ND            | 0.5       |
| Bromodichloromethane      | ND            | 0.5       |
| Dibromomethane            | ND            | 0.5       |
| 4-Methyl-2-Pentanone      | ND            | 10        |
| cis-1,3-Dichloropropene   | ND            | 0.5       |
| Toluene                   | ND            | 0.5       |
| trans-1,3-Dichloropropene | ND            | 0.5       |
| 1,1,2-Trichloroethane     | ND            | 0.5       |
| 2-Hexanone                | ND            | 10        |
| 1,3-Dichloropropane       | ND            | 0.5       |
| Tetrachloroethene         | ND            | 0.5       |

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

| <b>Purgeable Organics by GC/MS</b> |                        |           |                        |
|------------------------------------|------------------------|-----------|------------------------|
| Lab #:                             | 280960                 | Location: | Former Francis Plating |
| Client:                            | The Source Group, Inc. | Prep:     | EPA 5030B              |
| Project#:                          | 06-FP                  | Analysis: | EPA 8260B              |
| Type:                              | BLANK                  | Diln Fac: | 1.000                  |
| Lab ID:                            | QC851987               | Batch#:   | 239213                 |
| Matrix:                            | Water                  | Analyzed: | 09/18/16               |
| Units:                             | ug/L                   |           |                        |

| <b>Analyte</b>              | <b>Result</b> | <b>RL</b> |
|-----------------------------|---------------|-----------|
| Dibromochloromethane        | ND            | 0.5       |
| 1,2-Dibromoethane           | ND            | 0.5       |
| Chlorobenzene               | ND            | 0.5       |
| 1,1,1,2-Tetrachloroethane   | ND            | 0.5       |
| Ethylbenzene                | ND            | 0.5       |
| m,p-Xylenes                 | ND            | 0.5       |
| o-Xylene                    | ND            | 0.5       |
| Styrene                     | ND            | 0.5       |
| Bromoform                   | ND            | 1.0       |
| Isopropylbenzene            | ND            | 0.5       |
| 1,1,2,2-Tetrachloroethane   | ND            | 0.5       |
| 1,2,3-Trichloropropane      | ND            | 0.5       |
| Propylbenzene               | ND            | 0.5       |
| Bromobenzene                | ND            | 0.5       |
| 1,3,5-Trimethylbenzene      | ND            | 0.5       |
| 2-Chlorotoluene             | ND            | 0.5       |
| 4-Chlorotoluene             | ND            | 0.5       |
| tert-Butylbenzene           | ND            | 0.5       |
| 1,2,4-Trimethylbenzene      | ND            | 0.5       |
| sec-Butylbenzene            | ND            | 0.5       |
| para-Isopropyl Toluene      | ND            | 0.5       |
| 1,3-Dichlorobenzene         | ND            | 0.5       |
| 1,4-Dichlorobenzene         | ND            | 0.5       |
| n-Butylbenzene              | ND            | 0.5       |
| 1,2-Dichlorobenzene         | ND            | 0.5       |
| 1,2-Dibromo-3-Chloropropane | ND            | 2.0       |
| 1,2,4-Trichlorobenzene      | ND            | 0.5       |
| Hexachlorobutadiene         | ND            | 0.5       |
| Naphthalene                 | ND            | 0.5       |
| 1,2,3-Trichlorobenzene      | ND            | 0.5       |

| <b>Surrogate</b>      | <b>%REC</b> | <b>Limits</b> |
|-----------------------|-------------|---------------|
| Dibromofluoromethane  | 97          | 80-128        |
| 1,2-Dichloroethane-d4 | 106         | 75-139        |
| Toluene-d8            | 96          | 80-120        |
| Bromofluorobenzene    | 95          | 80-120        |

ND= Not Detected

RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP7B                | Diln Fac: | 1.000                  |
| Lab ID:   | 280960-002             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |
| Units:    | ug/L                   |           |                        |

| Analyte    | Result | RL   | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 31     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 21     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | 12     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | ND     | 20   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP2                 | Diln Fac: | 1.000                  |
| Lab ID:   | 280960-003             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |
| Units:    | ug/L                   |           |                        |

| Analyte    | Result | RL   | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 33     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 15     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | 28     | 20   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP6                 | Units:    | ug/L                   |
| Lab ID:   | 280960-004             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |

| Analyte    | Result | RL   | Diln Fac | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|----------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 48     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 18,000 | 500  | 100.0    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 1.000    | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | 35     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | 13     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | ND     | 20   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit



**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-9                   | Diln Fac: | 1.000                  |
| Lab ID:   | 280960-005             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |
| Units:    | ug/L                   |           |                        |

| Analyte    | Result | RL   | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 160    | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 9,100  | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | 33     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | 8.1    | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | ND     | 20   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP1                 | Diln Fac: | 1.000                  |
| Lab ID:   | 280960-006             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |
| Units:    | ug/L                   |           |                        |

| Analyte    | Result | RL   | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 39     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 7.5    | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | 11     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | ND     | 20   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP4B                | Diln Fac: | 1.000                  |
| Lab ID:   | 280960-007             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |
| Units:    | ug/L                   |           |                        |

| Analyte    | Result | RL   | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 29     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 10     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | 9.6    | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | 300    | 20   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP4A                | Units:    | ug/L                   |
| Lab ID:   | 280960-008             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |

| Analyte    | Result | RL   | Diln Fac | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|----------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 97     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 12,000 | 500  | 100.0    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | 7.1    | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | 20     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 1.000    | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | 14     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | 130    | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | 110    | 20   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP3                 | Diln Fac: | 1.000                  |
| Lab ID:   | 280960-009             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |
| Units:    | ug/L                   |           |                        |

| Analyte    | Result | RL   | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 70     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 200    | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | 20     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | ND     | 20   | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  |           |                        |
| Field ID: | MW-FP5                 | Units:    | ug/L                   |
| Lab ID:   | 280960-010             | Sampled:  | 09/14/16               |
| Matrix:   | Filtrate               | Received: | 09/14/16               |

| Analyte    | Result | RL   | Diln Fac | Batch# | Prepared | Analyzed | Analysis  |
|------------|--------|------|----------|--------|----------|----------|-----------|
| Antimony   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Arsenic    | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Barium     | 56     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Beryllium  | ND     | 2.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cadmium    | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Chromium   | 20,000 | 500  | 100.0    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Cobalt     | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Copper     | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Lead       | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Mercury    | ND     | 0.20 | 1.000    | 239331 | 09/21/16 | 09/21/16 | EPA 7470A |
| Molybdenum | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Nickel     | 24     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Selenium   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Silver     | 17     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Thallium   | ND     | 10   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Vanadium   | ND     | 5.0  | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |
| Zinc       | ND     | 20   | 1.000    | 239585 | 09/28/16 | 09/28/16 | EPA 6010B |

ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

| Dissolved California Title 22 Metals |                        |           |                        |
|--------------------------------------|------------------------|-----------|------------------------|
| Lab #:                               | 280960                 | Location: | Former Francis Plating |
| Client:                              | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:                            | 06-FP                  | Analysis: | EPA 7470A              |
| Analyte:                             | Mercury                | Diln Fac: | 1.000                  |
| Type:                                | BLANK                  | Batch#:   | 239331                 |
| Lab ID:                              | QC852436               | Prepared: | 09/21/16               |
| Matrix:                              | Filtrate               | Analyzed: | 09/21/16               |
| Units:                               | ug/L                   |           |                        |

| Result | RL   |
|--------|------|
| ND     | 0.20 |

ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

| Dissolved California Title 22 Metals |                        |           |                        |
|--------------------------------------|------------------------|-----------|------------------------|
| Lab #:                               | 280960                 | Location: | Former Francis Plating |
| Client:                              | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:                            | 06-FP                  | Analysis: | EPA 7470A              |
| Analyte:                             | Mercury                | Batch#:   | 239331                 |
| Matrix:                              | Filtrate               | Prepared: | 09/21/16               |
| Units:                               | ug/L                   | Analyzed: | 09/21/16               |
| Diln Fac:                            | 1.000                  |           |                        |

| Type | Lab ID   | Spiked | Result | %REC | Limits | RPD | Lim |
|------|----------|--------|--------|------|--------|-----|-----|
| BS   | QC852437 | 2.500  | 2.429  | 97   | 80-120 |     |     |
| BSD  | QC852438 | 2.500  | 2.448  | 98   | 80-120 | 1   | 24  |

RPD= Relative Percent Difference



## Batch QC Report

**Dissolved California Title 22 Metals**

|             |                        |           |                        |
|-------------|------------------------|-----------|------------------------|
| Lab #:      | 280960                 | Location: | Former Francis Plating |
| Client:     | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:   | 06-FP                  | Analysis: | EPA 7470A              |
| Analyte:    | Mercury                | Batch#:   | 239331                 |
| Field ID:   | ZZZZZZZZZZ             | Sampled:  | 09/20/16               |
| MSS Lab ID: | 281238-001             | Received: | 09/20/16               |
| Matrix:     | Water                  | Prepared: | 09/21/16               |
| Units:      | ug/L                   | Analyzed: | 09/21/16               |
| Diln Fac:   | 1.000                  |           |                        |

| Type | Lab ID   | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|------|----------|------------|--------|--------|------|--------|-----|-----|
| MS   | QC852439 | <0.04000   | 2.500  | 2.588  | 104  | 60-130 |     |     |
| MSD  | QC852440 |            | 2.500  | 2.549  | 102  | 60-130 | 1   | 34  |

RPD= Relative Percent Difference

## Batch QC Report

| Dissolved California Title 22 Metals |                        |           |                        |
|--------------------------------------|------------------------|-----------|------------------------|
| Lab #:                               | 280960                 | Location: | Former Francis Plating |
| Client:                              | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:                            | 06-FP                  | Analysis: | EPA 7470A              |
| Analyte:                             | Mercury                | Diln Fac: | 5.000                  |
| Type:                                | BLANK                  | Batch#:   | 239331                 |
| Lab ID:                              | QC852441               | Prepared: | 09/21/16               |
| Matrix:                              | Filtrate               | Analyzed: | 09/21/16               |
| Units:                               | ug/L                   |           |                        |

| Result | RL  |
|--------|-----|
| ND     | 1.0 |

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  | Analysis: | EPA 6010B              |
| Type:     | BLANK                  | Diln Fac: | 1.000                  |
| Lab ID:   | QC853430               | Batch#:   | 239585                 |
| Matrix:   | Filtrate               | Prepared: | 09/28/16               |
| Units:    | ug/L                   | Analyzed: | 09/28/16               |

| Analyte    | Result | RL  |
|------------|--------|-----|
| Antimony   | ND     | 10  |
| Arsenic    | ND     | 5.0 |
| Barium     | ND     | 5.0 |
| Beryllium  | ND     | 2.0 |
| Cadmium    | ND     | 5.0 |
| Chromium   | ND     | 5.0 |
| Cobalt     | ND     | 5.0 |
| Copper     | ND     | 5.0 |
| Lead       | ND     | 5.0 |
| Molybdenum | ND     | 5.0 |
| Nickel     | ND     | 5.0 |
| Selenium   | ND     | 10  |
| Silver     | ND     | 5.0 |
| Thallium   | ND     | 10  |
| Vanadium   | ND     | 5.0 |
| Zinc       | ND     | 20  |

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**
**Dissolved California Title 22 Metals**

|           |                        |           |                        |
|-----------|------------------------|-----------|------------------------|
| Lab #:    | 280960                 | Location: | Former Francis Plating |
| Client:   | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#: | 06-FP                  | Analysis: | EPA 6010B              |
| Matrix:   | Filtrate               | Batch#:   | 239585                 |
| Units:    | ug/L                   | Prepared: | 09/28/16               |
| Diln Fac: | 1.000                  | Analyzed: | 09/28/16               |

Type: BS Lab ID: QC853431

| Analyte    | Spiked | Result | %REC | Limits |
|------------|--------|--------|------|--------|
| Antimony   | 100.0  | 80.21  | 80   | 79-120 |
| Arsenic    | 100.0  | 98.69  | 99   | 80-120 |
| Barium     | 100.0  | 99.73  | 100  | 80-120 |
| Beryllium  | 100.0  | 100.7  | 101  | 80-120 |
| Cadmium    | 100.0  | 104.4  | 104  | 80-120 |
| Chromium   | 100.0  | 101.9  | 102  | 80-120 |
| Cobalt     | 100.0  | 101.1  | 101  | 80-120 |
| Copper     | 100.0  | 96.98  | 97   | 80-120 |
| Lead       | 100.0  | 98.70  | 99   | 80-120 |
| Molybdenum | 100.0  | 94.52  | 95   | 80-120 |
| Nickel     | 100.0  | 101.2  | 101  | 80-120 |
| Selenium   | 100.0  | 102.9  | 103  | 80-120 |
| Silver     | 100.0  | 105.7  | 106  | 77-120 |
| Thallium   | 50.00  | 48.17  | 96   | 80-121 |
| Vanadium   | 100.0  | 103.7  | 104  | 80-120 |
| Zinc       | 100.0  | 96.51  | 97   | 80-120 |

Type: BSD Lab ID: QC853432

| Analyte    | Spiked | Result | %REC | Limits | RPD | Lim |
|------------|--------|--------|------|--------|-----|-----|
| Antimony   | 100.0  | 80.00  | 80   | 79-120 | 0   | 20  |
| Arsenic    | 100.0  | 97.60  | 98   | 80-120 | 1   | 20  |
| Barium     | 100.0  | 97.47  | 97   | 80-120 | 2   | 20  |
| Beryllium  | 100.0  | 98.16  | 98   | 80-120 | 3   | 20  |
| Cadmium    | 100.0  | 101.8  | 102  | 80-120 | 2   | 20  |
| Chromium   | 100.0  | 100.4  | 100  | 80-120 | 2   | 20  |
| Cobalt     | 100.0  | 98.88  | 99   | 80-120 | 2   | 20  |
| Copper     | 100.0  | 94.72  | 95   | 80-120 | 2   | 20  |
| Lead       | 100.0  | 96.16  | 96   | 80-120 | 3   | 20  |
| Molybdenum | 100.0  | 93.22  | 93   | 80-120 | 1   | 20  |
| Nickel     | 100.0  | 97.56  | 98   | 80-120 | 4   | 20  |
| Selenium   | 100.0  | 103.6  | 104  | 80-120 | 1   | 20  |
| Silver     | 100.0  | 103.1  | 103  | 77-120 | 3   | 20  |
| Thallium   | 50.00  | 47.32  | 95   | 80-121 | 2   | 20  |
| Vanadium   | 100.0  | 101.9  | 102  | 80-120 | 2   | 20  |
| Zinc       | 100.0  | 94.57  | 95   | 80-120 | 2   | 20  |

RPD= Relative Percent Difference

| Hexavalent Chromium |                        |           |                        |
|---------------------|------------------------|-----------|------------------------|
| Lab #:              | 280960                 | Location: | Former Francis Plating |
| Client:             | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:           | 06-FP                  | Analysis: | EPA 7199               |
| Matrix:             | Water                  | Batch#:   | 239097                 |
| Units:              | ug/L                   | Received: | 09/14/16               |

Field ID: MW-FP7B                      Diln Fac: 1.000  
 Type: SAMPLE                              Sampled: 09/14/16 08:25  
 Lab ID: 280960-002                      Analyzed: 09/14/16 14:37

| Analyte             | Result | RL   |
|---------------------|--------|------|
| Hexavalent Chromium | 21     | 0.50 |

Field ID: MW-FP2                      Diln Fac: 1.000  
 Type: SAMPLE                              Sampled: 09/14/16 09:00  
 Lab ID: 280960-003                      Analyzed: 09/14/16 15:01

| Analyte             | Result | RL   |
|---------------------|--------|------|
| Hexavalent Chromium | 17     | 0.50 |

Field ID: MW-FP6                      Diln Fac: 10,000  
 Type: SAMPLE                              Sampled: 09/14/16 09:45  
 Lab ID: 280960-004                      Analyzed: 09/14/16 15:13

| Analyte             | Result | RL    |
|---------------------|--------|-------|
| Hexavalent Chromium | 18,000 | 5,000 |

Field ID: MW-9                              Diln Fac: 10,000  
 Type: SAMPLE                              Sampled: 09/14/16 10:15  
 Lab ID: 280960-005                      Analyzed: 09/14/16 15:37

| Analyte             | Result | RL    |
|---------------------|--------|-------|
| Hexavalent Chromium | 9,000  | 5,000 |

Field ID: MW-FP1                      Diln Fac: 1.000  
 Type: SAMPLE                              Sampled: 09/14/16 11:05  
 Lab ID: 280960-006                      Analyzed: 09/14/16 16:01

| Analyte             | Result | RL   |
|---------------------|--------|------|
| Hexavalent Chromium | 7.1    | 0.50 |

Field ID: MW-FP4B                      Diln Fac: 1.000  
 Type: SAMPLE                              Sampled: 09/14/16 11:40  
 Lab ID: 280960-007                      Analyzed: 09/14/16 16:13

| Analyte             | Result | RL   |
|---------------------|--------|------|
| Hexavalent Chromium | 9.6    | 0.50 |

| Hexavalent Chromium |                        |           |                        |
|---------------------|------------------------|-----------|------------------------|
| Lab #:              | 280960                 | Location: | Former Francis Plating |
| Client:             | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:           | 06-FP                  | Analysis: | EPA 7199               |
| Matrix:             | Water                  | Batch#:   | 239097                 |
| Units:              | ug/L                   | Received: | 09/14/16               |

Field ID: MW-FP4A Diln Fac: 10,000  
 Type: SAMPLE Sampled: 09/14/16 12:10  
 Lab ID: 280960-008 Analyzed: 09/14/16 16:25

| Analyte             | Result | RL    |
|---------------------|--------|-------|
| Hexavalent Chromium | 12,000 | 5,000 |

Field ID: MW-FP3 Diln Fac: 25.00  
 Type: SAMPLE Sampled: 09/14/16 12:35  
 Lab ID: 280960-009 Analyzed: 09/14/16 17:26

| Analyte             | Result | RL |
|---------------------|--------|----|
| Hexavalent Chromium | 200    | 13 |

Field ID: MW-FP5 Diln Fac: 10,000  
 Type: SAMPLE Sampled: 09/14/16 13:05  
 Lab ID: 280960-010 Analyzed: 09/14/16 17:01

| Analyte             | Result | RL    |
|---------------------|--------|-------|
| Hexavalent Chromium | 30,000 | 5,000 |

Type: BLANK Diln Fac: 1.000  
 Lab ID: QC851516 Analyzed: 09/14/16 09:50

| Analyte             | Result | RL   |
|---------------------|--------|------|
| Hexavalent Chromium | ND     | 0.50 |

## Batch QC Report

| Hexavalent Chromium |                        |           |                        |
|---------------------|------------------------|-----------|------------------------|
| Lab #:              | 280960                 | Location: | Former Francis Plating |
| Client:             | The Source Group, Inc. | Prep:     | METHOD                 |
| Project#:           | 06-FP                  | Analysis: | EPA 7199               |
| Field ID:           | MW-FP7B                | Batch#:   | 239097                 |
| MSS Lab ID:         | 280960-002             | Sampled:  | 09/14/16 08:25         |
| Matrix:             | Water                  | Received: | 09/14/16               |
| Units:              | ug/L                   |           |                        |

Type: LCS Diln Fac: 1.000  
 Lab ID: QC851517 Analyzed: 09/14/16 10:02

| Analyte             | Spiked | Result | %REC | Limits |
|---------------------|--------|--------|------|--------|
| Hexavalent Chromium | 10.00  | 10.06  | 101  | 90-110 |

Type: MS Diln Fac: 25.00  
 Lab ID: QC851518 Analyzed: 09/14/16 18:27

| Analyte             | MSS Result | Spiked | Result | %REC | Limits |
|---------------------|------------|--------|--------|------|--------|
| Hexavalent Chromium | 20.51      | 250.0  | 269.3  | 99   | 85-115 |

Type: MSD Diln Fac: 25.00  
 Lab ID: QC851519 Analyzed: 09/14/16 18:39

| Analyte             | Spiked | Result | %REC | Limits | RPD | Lim |
|---------------------|--------|--------|------|--------|-----|-----|
| Hexavalent Chromium | 250.0  | 272.0  | 101  | 85-115 | 1   | 20  |

RPD= Relative Percent Difference